Kim R. Dunbar, FRS

University Distinguished Professor
Davidson Professor of Science
Department of Chemistry, Texas A&M University
College Station, Texas 77842-3012

Education

B.S. Chemistry, 1980, Westminster College
Ph.D. Inorganic Chemistry, 1984, Purdue University
Postdoctoral Research Associate, Inorganic Chemistry, 1985-1986, Texas A&M University

Professional Experience and Appointments

Holder of the Davidson Chair of Science, 2016, Texas A&M University
Wilsmore Fellow and Visiting Professor, University of Melbourne, Australia, 2011
Visiting Professor, Institut Le Bel, Iniversité de Strasbourg, France, 2011
University Distinguished Professor of Chemistry, Texas A&M University, 2007 - present
Davidson Professor of Science, 2004, Texas A&M University
Professor 1999, Texas A&M University
University Distinguished Professor 1998-1999, Michigan State University
Assistant Prof. 1987-1990, Associate Prof. 1991-1992, Prof, 1993-1998, Michigan State University
Postdoctoral Research Fellow 1985-1986, Texas A&M University
Research and Teaching Assistant 1980-1984, Purdue University

Honors and Distinctions

- 2019 Basolo Medal for Outstanding Research in Inorganic Chemistry, Northwestern University and the Chicago Section of the American Chemical Society
- Fellow of the Royal Society of Chemistry, FRSC
- Plenary Speaker, Zing Conference, Ho Chi Minh City, Vietnam, 2016
- Presidential Award for Service to NOBCChE and the STEM Community at the 42nd Annual "Bridging Generations Through STEM" Conference, Orlando, Florida September 22-26, 2015.
- ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry, 2015
- Plenary Lecturer, Challenges in Inorganic and Materials Chemistry, Royal Society, Ireland, July 2, 2014
- Plenary Speaker, Zing Coordination Chemistry Conference, Cancun, December 8, 2013
- Plenary Speaker 48° Congreso Mexicano de Química and 32° Congreso Nacional de Educación Química, Guanajuato, Gto., Mexico, September 4, 2013
- Keynote Lecturer, Celebration of Science, Texas Woman's University, March 22, 2013
- Inaugural Eminent Scholar Award, Texas A&M University Women Former Students' Network, 2012
- Westminster College Commencement Address, 2012
- Honorary Degree, Westminster College, PA, 2012 (ranked first in the nation as "Best College for Women in Science, Technology, Engineering and Math"STEM fields, 2012 — *Forbes.com*).
- Distinguished Achievement Award in Research, Association of Former Students, Texas A&M, 2012
- Wilsmore Fellow, University of Melbourne, Australia 10/07/11 - 12/23/11
- Visiting Professor, Institut Le Bel, Université de Strasbourg, France 6/11; 9/11
- Elected Fellow, American Chemical Society, 2011
- Featured Editorial in *Angewandte Chemie*, Women in Chemistry, 2011
- Featured Author in *Angewandte Chemie*, Author Profile Series for 2010
- Keynote Lecturer, ICMM 2010 "12th International Conference on Molecule-Based Magnets" Beijing, People's Republic of China, 2010
- Prins Lecturer, Syracuse University, New York, 2009
- Keynote Lecturer, Second Asian Coordination Chemistry Conference, Nanjing, PRC, 2009
- Frontiers Lecturer, Case Western Reserve University, Ohio, 2008
- Ken and Nancy Long Lectureship, Westminster College, PA, 2008

- Association of Former Students Inaugural Distinguished Achievement Award in Graduate Mentoring, 2006

Honors and Distinctions (continued)

- Purdue University Department of Chemistry Distinguished Alumna Award, 2004
- Fellow, American Association for the Advancement of Science, 2004
- NSF Creativity Extension Awards; 1995-1996; 2002-2004
- Distinguished Alumni Award, Westminster College, 2000
- "3em ciecle en chimie" Lecturer in Switzerland: 2001 and in 2010
- Distinguished Faculty Award, Michigan State University, 1998
- Plenary Lecturer XXXIII ICCC Conference, Florence, Italy, 1998
- Sigma Xi Research Award, Michigan State University, 1998
- Fellow of the Alfred P. Sloan Foundation, 1992-1995
- Camille and Henry Dreyfus Teacher-Scholar Award, 1991-1995
- University Teaching Award, Michigan State University, 1990
- Sigma Xi 1984, Top Thesis Award, Purdue University
- 3M Fellowship, Purdue University, 1980-1982
- Lubrizol Foundation Award, Westminster College, 1980
- Analytical Chemists of Pittsburgh Award in College Chemistry, 1980
- Eastman Kodak Award in College Chemistry, 1979

Professional Affiliations and Service:

- *Associate Editor* for the ACS journal *Inorganic Chemistry*, 2002 - present
- *Fellow*, American Institute of Chemists
- *Fellow*, American Association for the Advancement of Science
- American Chemical Society Activities
  - *Member-At-Large,* Executive Committee of the Division of Inorganic Chemistry, 2016-2018
  - *ACS Expert*, 2012 (outreach for ACS communications to non-scientists)
  - *ACS Fellow*, 2011
  - *Chair*, ACS Division of Inorganic Chemistry, 2007
  - *Chair,* ACS Texas A&M Local Section, 2006: Michigan State Local Section, 1996
  - *Secretary*, ACS Division of Inorganic Chemistry, 2002-2004
  - *Councilor*, ACS Division of Inorganic Chemistry, 1995-1997
  - *Minority Affairs Committee,* 1996-2000
  - *ACS Scholars Program Selection Committee*, 1996-2000
  - *Canvassing Committee ACS Award in Inorganic Chemistry,* 1995-1998 (Chair, 1998)
  - *Regional Mentor, ACS Minority Scholars Program, Texas A&M University*
- Inorganic Gordon Conference Chair, 1999 (Vice-Chair, 1998)
- Kappa Mu Epsilon National Mathematics Honor Society
- New York Academy of Sciences
- Phi Lambda Upsilon National Chemical Honorary, Nu Chapter
- Sigma Xi Chemical Honorary
- TAMU Department of Chemistry, Faculty Advisor, National Organization for the Advancement of Black Chemists and Chemical Engineers (NOBBChE) 2013-present
- TAMU Faculty Adviser, Alliance for Diversity in Science an Engineering (ADSE) Chapter 2015-present

Panels:

- Synthetic and Biological Chemistry A (SBCA) Study Section Center for Scientific Review (CSR) National Institutes of Health, Ad hoc panelist, 2018
- Dean of Faculties Faculty Mentoring Development Series for 2015-16
- National Science Foundation CCI Solar Fuels Site Visit Panel, California Institute of Technology, 2015

- Energy Research Frontier Centers Evaluation Panel, BES, Materials Science and Engineering, 2015
- Evaluation Panel, ICIQ International Postdoctoral Mobility Program, Spain, 2014
- National Research Council Research Associateship Program Panel, 2013
- Harvard University, President Advisory Panel, 2011
- NSF Chemistry Division Proposal Panel, 2010
- US evaluator of the European COST program "*From Molecules to Molecular Devices*" 2006-2010
- Evaluation of Inorganic Chemistry for Vetenskapsrådet, Swedish Research Council, Stockholm, 2008
- ACS Scholars Program, 1996-1998
- NSF POWRE Program, 1998
- NIRT/NSF Proposal Review Panel, Panel Chair, 2003
- NASA Sharp Plus Mentor, 2001
- NSF Postdoctoral Research Fellowships in Chemistry, 1991

Editorships, Editorial & Advisory Boards

- Associate Editor*, Inorganic Chemistry*, 2002-present
- Advisory Boards: *Reviews in Inorganic Chemistry, Polyhedron*, *Comptes Rendus Chimie*
  Past: *Accounts of Chemical Researh, Crystal Engineering, European Journal of Inorganic Chemistry, Inorganic Chemistry*, *Inorganic Chemistry Communications*, *CHEMTRACTS*
- American Advisor for MolMAGNet, European Funding Network on Research in Magnetism
- European COST D35 Program Evaluation Committeee
- Member of the Council, Gordon Research Conferences
- NSF Advisory Board on Research Misconduct in Biochemistry, Chemistry and Microbiology
- International Advisory Board for the International Conference on Molecule-Based Magnets 2000-present

University Committees:

- College of Science Dean Search Committee, 2002
- Chemistry Department Head Search Committee, 2005
- Davidson Chair Committee, 2006
- Chemistry Department, Research Infrastructure Committee, 2008
- Search Advisory Committee, Dean of Faculties & Associate Provost, 2009
- Association of Former Studens Teaching Award Committee (Chair), 2010
- Vision 2020 Mid-Term Review Imperative 4 Study Team (IST), 2011
- Association of Former Students Committee for Teaching Awards 2009-2010
- Distinguished Professors Executive Committee, 2011 – present
- Eminent Scholar Award Selection Committee, 2012 – present
- Distinguished Professors Selection Committee, 2015-2016
- TIAS/Hagler Advisory Committee, 2016-2017

Journals and Books Edited:

1. Guest Editor, *Polyhedron*, 2001
2. Guest Editor, *Journal of Solid State Chemistry*, 2001
3. Guest Editor, *Inorganica Chimica Acta*, 2001
4. Guest Editor, *Forum Issue on Molecule Magnetism*, *Inorganic Chemistry*, 2009
5. Editor, *Virtual Issue "Quantum Molecular Magnets", ACS journals, J. Am. Chem. Soc., J. Phys. Chem. A, Inorg. Chem., 2012*

Patents

- M. Wriedt, D. Aulakh, J.B. Pyser, K.R. Dunbar & X. Zhang, Full Patent filed on May 23, 2016, Application# 15161828, Title: "Method and System for Controlled Nanostructuring of Nanomagnets"

Consulting:

- FDA, 2001-present
- Ebewe Pharma, 2009
- Sandoz, Inc., 2009
- MN Pharmaceuticals, 2009
- PAR Pharmaceutical Companies, Inc., 2009
- PAR Pharmaceutical Inc., 2009
- Mylan Inc., Natco Pharma Ltd., 2009
- Barr Laboratories, 2010
- Barr Laboratories, 2011

University Seminars and Colloquia

1. University of Toledo	September 23, 1987
2. Wayne State University	September 24, 1987
3. Bowling Green State University	April 6, 1988
4. University of Akron	May 2, 1989
5. Kalamazoo College	October 24, 1989
6. Arizona State University	November 27, 1989
7. University of Sussex	July 5, 1990
8. Oxford University	July 6, 1990
9. University of California at Davis	October 9, 1990
10. University of California at Berkeley	October 11, 1990
11. Stanford University	October 12, 1990
12. The Ohio State University	October 25, 1990
13. Calvin College	November 8, 1990
14. Hope College	November 9, 1990
15. Purdue University	November 15, 1990
16. Indiana University	November 16, 1990
17. Oakland University	January 30, 1991
18. University of Michigan	March 11, 1991
19. Kent State University	October 17, 1991
20. Ohio Wesleyan University	November 14, 1991
21. The College of Wooster	March 1, 1992
22. Louisiana State University	February 19, 1993
23. University of Illinois	April 20, 1993
24. State University of New York at Buffalo	May 5, 1993
25. University of Delaware	May 20, 1993
26. Texas A&M University	October 19, 1993
27. University of Texas at Austin	October 20, 1993
28. University of Minnesota	November 18, 1993
29. Arizona State University	March 12, 1994
30. University of Zaragoza, Spain	November 11, 1994
31. Université Paris Pierre et Marie Curie Institute, France	November 25, 1994
32. National Hellenic Research Institute, Greece	November 28, 1994
33. University of Athens, Greece	November 29, 1994
34. University of Crete, Greece	November 30, 1994
35. Coordination Chemistry Insititute, Université de Toulouse, France	September 21, 1995
36. University of Northern Illinois	September 25, 1995
37. University of Wisconsin, Madison	November 20, 1995
38. The University of Pennsylvania	April 9, 1996

University Seminars and Colloquia (continued)

39. The University of Maryland — April 10,1996
40. The University of Utah — April 23, 1996
41. Utah State University — April 24, 1996
42. The University of California at Irvine — May 23, 1996
43. The University of California, San Diego — May 24, 1996
44. Oberlin College, Ohio — October 12,1996
45. California Institute of Technology — November 11, 1996
46. University of California, Los Angeles — November 12, 1996
47. The University of Pittsburgh — March 7, 1997
48. Université de Nantes, Institut de Materiaux, France — April 30, 1997
49. University of Valencia, Spain — May 10, 1997
50. Kinki University, Japan — August 11, 1997
51. The University of New Orleans, Advanced Materials Research Inst. — October 10, 1997
52. Harvard/MIT Inorganic Seminar — October 29, 1997
53. Carnegie Mellon University — November 4, 1997
54. The University of Chicago — November 14, 1997
55. Texas A&M University — December 1, 1997
56. The University of Wisconsin — February 9, 1998
57. The Ohio State University — February 26, 1998
58. The University of Georgia — April 21, 1998
59. The University of California at Davis — May 7, 1998
60. The University of California at Berkeley — May 8, 1998
61. Purdue University — October 22, 1998
62. Notre Dame University — December 3, 1998
63. Central Michigan University — April 26, 1999
64. University of British Columbia, Vancouver — November 15, 1999
65. Simon Fraser University — November 16, 1999
66. University of Victoria — November 17, 1999
67. University of Edmonton — November 18, 1999
68. Westminster College — October 5, 2000
69. Louisiana State University — October 4, 2001
70. University of California at San Diego — October 19, 2001
71. University of Illinois, Urbana-Champaign — November 17, 2001
72. Osaka City University, Osaka, Japan — November 17, 2001
73. The University of Pittsburgh — December 21, 2001
74. Iowa State University — May 1-2, 2002
75. The University of Iowa — May 3, 2002
76. Yale University — October 9, 2003
77. Southern Methodist University — February 2, 2004
78. California Institute of Technology — March 1, 2004
79. North Carolina State University — May 7, 2004
80. Purdue University — October 21, 2004
81. Michigan State University — November 4, 2004
82. University of Kentucky — March 25, 2005
83. Baylor University — April 1, 2005
84. University of Tennessee, Knoxville — April 14, 2005
85. Institut de Nanotechnologie, Karlsruhe, Germany — July 6, 2005
86. Virginia Tech — September 16, 2005
87. The Ohio State University — November 18, 2005
88. Emory University — January 24, 2006
89. The University of North Texas — March 31, 2006
90. The University of Washington — May 9, 2006

University Seminars and Colloquia (continued)

91. Case Western Reserve University — February 28, 2008
92. Westminster College — October 29, 2008
93. Princeton University — November 4, 2008
94. Kyoto University, Kyoto, Japan — January 10, 2009
95. Tongji University, Shanghai, People's Republic of China — April 16, 2009
96. Fudan University, Shanghai, People's Republic of China — April 20, 2009
97. Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences — April 21, 2009
Shanghai, People's Republic of China
98. Jiao Tong University, Shanghai, People's Republic of China — April 21, 2009
99. Nanjing University, State Key Laboratory of Coordination Chemistry — April 22, 2009
School of Chem & Chem. Engineering, Nanjing, People's Republic of China — April 24, 2009
100. Wuhan University, Wuhan, People's Republic of China — April 25, 2009
101. Peking University, College of Chemistry and Molecular Engineering — April 27, 2009
Beijing, People's Republic of China — April 28, 2009
102. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, — April 28, 2009
Beijing, People's Republic of China
103. Prins Lecture, Syracuse University, Syracuse, New York — September 21, 2009
104. Rice University, Houston, Texas — September 30, 2009
105. State key Laboratory of Rare Earth Materials & Applied Chemistry, — November 6, 2009
Inst. of Inorganic Chemistry, Peking University, People's Republic of China
106. Fujian Institute of Research on the Structure of Matter, Fuzhou, — November 8, 2009
People's Republic of China
107. Department of Chemistry, Hong Kong University Hong Kong, China — November 9, 2009
108. Sun Yat Sen University, Guangzhou, People's Republic of China — November 13, 2009
109. The University of Michigan, Ann Arbor — February 23, 2010
110. Wayne State University, Detroit, Michgian — February 24, 2010
111. Michigan State University, East Lansing, Michigan — February 25, 2010
112. University of California at Berkeley — April 9, 2010
113. Harvard University, R.B. Woodward Lectures in the Chemical Sciences — April 21, 2010
114. Boston University Colloquium — April 23, 2010
115. Fribourg University, Switzerland — May 25, 2010
116. Fribourg University, Switzerland — May 26, 2010
117. University of Bern, Switzerland — May 27, 2010
118. University of Lausanne, Switzerland — May 28, 2010
119. University of Basel, Switzerland — May 31, 2010
120. Florida State University — November 19, 2010
121. University of Calgary, Canada — March 25, 2011
122. Ben-Gurion University of the Negev, Beer-Sheva, Israel — May 16, 2011
123. University of Strasbourg, Institut Le Bel (Visiting Prof. Lecture 1) — July 5, 2011
124. University of Strasbourg, Instiutut Le Bel (Visiting Prof. Lecture 2) — July 7, 2011
125. University of Strasbourg, Institut Le Bel (Visiting Prof. Lecture 3) — September 19, 2011
126. University of Manchester — September 23, 2011
127. University of Melbourne, Wilsmore Fellow Seminar, Australia, — November 8, 2011
128. University of Melbourne, Australian Chemical Society Seminar, Australia — November 10, 2011
129. Monash University, Australia — November 14, 2011
130. La Trobe University, Australia — November 15, 2011
131. University of Sydney, Australia — November 18, 2011
132. University of South Wales, Australia — November 22, 2011
133. University of Melbourne, Australia, Australian Chemical Society — November 23, 2011
134. University of Florida, Gainesville, FL — April 22, 2013
135. University of Pennsylvania, Philadelphia, PA — September 24, 2013
136. Northwestern University, Evanston, IL — November 22, 2013

Invited Lectures at Industrial and National Laboratories

1. Los Alamos National Laboratories — May 12, 1989
2. Amoco Research Center — June 19, 1991
3. Los Alamos National Laboratories — June 23, 1993
4. Dupont Central Research — April 8, 1996
5. Johnson-Matthey — June 25, 2001
6. IUCCP Texas A&M Meeting, College Station, TX — April 25, 2002
7. The Food and Drug Administration — October 14, 2003
8. Los Alamos National Laboratories (External Reviewer for LDRD Project) — May 18-22, 2005

Plenary, Keynote Lectures and Lectureships

1. Distinguished Alumni Lecturer, Westminster College, PA — October 19, 1990
2. XXXI ICCC Conference, Vancouver, Canada — August 18, 1996
3. 59th Okazaki Conference *Molecular Architecture and Function of Inorganic Self-Assembled Multilayers* — August 7, 1997
4. *Barnett Rosenberg Symposium*, Michigan State University — August 23, 1997
5. NATO Workshop *Supramolecular Engineering of Synthetic Metallic Materials* — January 10-14, 1998
6. Plenary Lecturer XXXIII ICCC Conference, Florence, Italy — August 30, 1998
7. *Vith Int'l Conference on Molecule-Based Magnets*, Seignosse, France — September 12-17, 1998
8. First European Workshop on *Design, Synthesis, and Supramolecular Chemistry of Open-Shell Materials*, Training and Mobility of Researchers, Sitges, Spain — March 5-7, 1999
9. 18th Congress and General Assembly of the International Union of Crystallography Glasgow, Scotland — August 4-13, 1999
10. *Pacifichem 2000*, Honolulu, Hawaii — December 16, 2000
11. "3em ciecle en chimie" Switzerland: Bern, Geneva, Lausanne, Neuchatel — May 12-20, 2001
12. International Symposium on *Cooperative Phenomena of Assembled Metal Complexes,* Tokyo, Japan — November 15, 2001
13. Germany Universities Lecture Tour Goettingen, Muenster, Bielefeld, Muelheim, Karlsruhe — December 2-8, 2003
14. MAGMANet-ECMM European Conference on *Molecular Magnetism* Tomar, Portugal — October 10-15, 2006
15. National Conference on Inorganic Chemistry, South Africa — July 8-12, 2007
16. Frontiers Lecturer, Case Western Reserve University, Ohio — February 28, 2008
17. Ken and Nancy Long Lectureship, Westminster College, PA — October 29, 2008
18. Keynote Lecturer, Second Asian Coordination Chemistry Conference Nanjing, People's Republic of China — November 1, 2009
19. Prins Lecturer, Syracuse University, New York — September 21, 2009
20. Keynote Lecturer, ICMM 2010 "The 12th International Conference on Molecule-Based Magnets" Beijing, People's Republic of China — October 8, 2010
21. "3em ciecle en chimie" Switzerland: Fribourg, Bern, Lausanne, Basel — May 25-31, 2010
21. Westminster College Commencement Address — May 19, 2012
22. Keynote Lecture, Celebration of Science at Texas Women's University — March 22, 2013
23. Plenary Speaker 48° Congreso Mexicano de Química and 32° Congreso Nacional de Educación Química, Guanajuato, Gto., Mexico — September 4, 2013
24. Plenary Speaker, Zing Coordination Chemistry Conference, Cancun — December 8, 2013
25. Plenary Lecturer, Challenges in Inorganic and Materials Chemistry Royal Society of Chemistry, Dublin, Ireland — July 2, 2014

Plenary, Keynote Lectures and Lectureships (continued)

26. Keynote Speaker at 1st International Symposium on Clinical and Experimental Metallodrugs in Medicine: Cancer Chemotherapy", U. of Hawaii Cancer Center — December 13-15, 2015
26. Plenary Speaker 5th Zing Coordination Chemistry Conference, Ho Chi Minh City, Vietnam — June 17-20, 2016
27. Keynote Speaker, ICMM2016 "15th International Conference on Molecule-Based Magnets"Sendai International Center, Sendai, Japan — September 4-8, 2016
28. Walton Lecture, Endowed Lecture, Purdue University — November 3, 2016

Invited Conference, Symposia and Workshop Presentations

1. Michigan Science Teachers Association, Lansing, MI — February 17, 1990
2. *International Conference on Platinum Group Metals*, Cambridge, UK — July 12, 1990
3. Inorganic Gordon Conference, Brewster Academy, NH — August 1, 1991
4. *Sixteenth NSF Organometallic Chemistry Workshop*, Snowbird, UT — April 15, 1992
5. Gordon research Conference on Organometallic Chemistry, Salve Regina, RI — July 12, 1993
6. *First NSF Workshop on Materials*, Albuquerque, NM — October 23, 1993
7. ACS *Symposium on Organometallic Materials* — August 22, 1994
8. Southeast Regional ACS Meeting, Birmingham, AL — October 17, 1994
   Symposium on New Directions in Phosphine Chemistry
9. *Ivth Int'l Conference on Molecule Based Magnets*, Salt Lake City, UT — October 20, 1994
10. *Symposium on Contemporary Inorganic Chemistry*, Texas A&M — March 15, 1995
11. ACS Central Regional, *Symposium on Metal-Triple Bonds* — May 27, 1997
12. ACS Great Lakes Regional, *Symposium on Advances in Materials Science* — May 30, 1997
13. Inorganic Gordon Conference, Salve Regina, RI — July 25, 1997
14. *Barnett Rosenberg Symposium*, Michigan State University — August 23, 1997
15. *5th NSF Materials Chemistry Workshop*, Pasadena, CA — October 17, 1997
16. *Priestley Medal Symposium* in honor of F.A. Cotton, Dallas, TX — March 31, 1998
17. *NSF Inorganometallic Workshop*, Knoxville, TN — June 11-14, 1998
18. ACS *Symposium on Synthesis of New Materials by Coordination Chemistry, Self-Assembly and Template Formation,* Anaheim, CA — March 21-25, 1999
19. ACS *Inorganic Chemistry Award Symposium*, Anaheim, CA — March 23, 1999
20. ACS *Award for Distinguished Service in Inorganic Chemistry*, Anaheim, CA — March 24, 1999
21. ACS *Award for the Chemistry of Materials* honoring Joel S. Miller, San Francisco, CA — March 25-29, 2000
22. ACS *Award for the Chemistry of Organometallics* honoring F.A. Cotton, San Diego, CA — April 1-5, 2001
21. ACS 56th Northwest Regional Meeting, Seattle, WA — June 14-17, 2001
22. Gordon Research Conference, *Chemistry of Supramolecules & Assembilies* New London, CT — July30, 2001
23. Molnanomag, *Synthetic strategies for new spin topologies*, Paris, France — March 7-9, 2002
24. NSF US-Italy Workshop, *Nanoscale Science & Technology*, Washington, DC — March 14-16, 2002
25. NSF Nanomaterials Steering Committee, Washington, DC — September 25, 2002
25. *VIIIth International Conference on Molecule-based Magnets*, Valencia, Spain — October 5-10-2002
26. NSF, *Nanoscale Science and Engineering Grantees Conference*, Arlington, VA — December 11, 2002
27. NATO, *Advanced Study Institute*, Corfu, Greece — April 30, 2003
28. Gordon Research Conference, *Inorganic Chemistry*, Newport, RI — July 13-18, 2003
29. Symposium, University of Florida, Gainesville, FL — July 25-27, 2003
30. NSF *Workshop on Reticular Chemistry, 2003*, San Diego, CA — November 20, 2003
31. NSF *Foundations of Nanoscience: Self-Assembled Architectures and Devices (FNANO),* Snowbird, UT — April 21-23, 2004
32. *SNS Single-Crystal Diffractometer/Topaz IDT Meeting*, Oakridge National Lab — April 18-19, 2005
33. Pacifichem 2005-*Magnetism: Molecules to Functional Materials*, Honolulu, HI — December17, 2005
34. DOE-*Committee of Visitors for BES Materials*, Germantown, MD — April 2-5, 2006

Invited Conference, Symposia and Workshop Presentations (continued)

35. Atlanta ACS Symposium: *George C. Pimentel Award in Chemical Education – Symposium in honor of F. Albert Cotton* March 26-30, 2006
36. The 235th ACS National Meeting, New Orleans: *Metal-Organic Frameworks: What are They Good for?* April 6-10, 2008
37. The 235th ACS National Meeting, New Orleans: *Cotton Memorial Symposium* April 6-10, 2008
38. The *2nd Workshop on Current trends in Nanoscopic and Mesoscopic Magnetism* Delphi, Greece September 4, 2008
39. Gordon Research Conference, *Chemistry of Supramolecules & Assembilies* New London, CT July30, 2001
39. *The 1st Global COE International Symposium on Elucidation and Design of Materials and Molecular Functions*, Nagoya University, Japan January 13, 2009
40. Gordon Research Conference, *Inorganic Chemistry*, Biddeford, Maine June 20-24, 2009
41. *Third Workshop on Current Trends in Molecular and Nanoscale Magnetism* Orlando, Florida June 21 – 25, 2010
42. 242nd ACS, Denver: *50th anniversary* of the *ACS* journal *Inorganic Chemistry* August 28, 2011
43. COSTACTION D5, Final Conference, Santa Margherita di Pula, Sardinia, Italy September 12, 2011
44. Marie-Curie-ITN "Small" Workshop *Ethics in Science- Supramolecular Chemistry* Baden-Baden, Germany September 20, 2011
45. *2012 International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC-7)* University of Otago, Dunedin, New Zealand February 2, 2012
46. *62nd Fujihara Seminar "Frontiers and Perspectives in Molecule-Based Quantum Magnets,* Sendai, Japan May 7, 2012
47. Royal Society Dalton Discussion Meeting on *Photoactivatable metal complexes from theory to therapy*, London, England June 18, 2012
48. *Royal Society Satellite Meeting on Photoactivatable metal complexes: exciting potential in biotechnology and medicine?* Kavli Royal Society International Centre, Buckinghamshire, England June 20, 2012
49. *4th Workshop on Current Trends in Molecular and Nanoscale Magnetism* (CTMNM 2012) Chalkidiki, Greece June 12, 2012
50. 2012 International Conference on Molecule Based Magnets, Orlando, FL October 9, 2012
51. The 245th American Chemical Society, New Orleans, Louisiana. April 10, 2013
F. Albert Cotton Award in Synthetic Inorganic Chemistry in honor of Gregory H. Robinson
52. *Fifth North America-Greece-Cyprus Workshop on Paramagnetic Materials* (NAGC 2013), Limassol, Cyprus May 22-26, 2013
53. The 246th ACS National Meeting, Indianapolis, Indiana September 8, 2013
Symposium: New Trends in Molecular Magnetic Materials
54. The 247th ACS National Meeting & Exposition, Dallas, Texas
Symposium: Inorganic Supramolecular Chemistry
55. 36th DOE Solar Photochemistry Research Meeting, Annapolis, Maryland June 1-4, 2014
56. 2014 DOE BES Materials Chemistry Principal Investigators' Meeting Office of Basic Energy Sciences, Gaithersburg, Maryland July 14-16, 2014
57. 37th DOE Solar Photochemistry Research Meeting, Gaithersburg, Maryland June 1-4, 2015
58. Topaz Workshop, Oak Ridge National Laboratories, Knoxville, Tennessee June 16-17, 2015
59. Pacifichem 2015, *Frontiers of Molecular Magnetism Symposium* December 15-20, 2015
60. Gordon Research Conference on "Crystal Engineering" Stoweflake Resort and Conference Center, Stowe, VT June 26-July 1, 2016
61. Gordon Research Conference on "Conductivity and Magnetism in Molecular Materials", Mount Holyoke College, MA August 14-19, 2016
61. 38th Department of Energy "Solar Photochemistry Principal Investigator's Meeting", Gaithersburg, Maryland June 1-9, 2016

Invited Conference, Symposia and Workshop Presentations (continued)

62. Department of Energy Materials Chemistry Program "2016 biennial PI meeting" July 12-14, 2016
Gaithersburg, Maryland
63. Pre-ICMM 2016 Conference workshop, "New Research Crossroads in Molecular Conductors and Magnets", Nagoya University, Nagoya, Japan September 2-3, 2016
64. 15th International Conference on Molecule-Based Magnets, "Renassiance of Cyanide Chemistry-Lessons Learned from Two Decades of Molecular Magnetism Research" Sendai, Japan September 4-8, 2016
65. The 251st ACS National Meeting & Exposition, San Diego, California March 13-17, 2016
ACS Award in Inorganic Chemistry: Symposium in honor of Mercouri G.Kanatzidis
66. The 251st ACS National Meeting & Exposition, San Diego, California March 13-17, 2016
Memorial Symposium Honoring Karen J. Brewer
67. The 251st ACS National Meeting & Exposition, San Diego, California March 13-17, 2016
Frontiers in Heavy Element Inorganic Chemistry
68. The 251st ACS National Meeting & Exposition, San Diego, California March 13-17, 2016
F. Albert Cotton Award in Synthetic Inorganic Chemistry: Symposium in honor of Francois P. Gabbaï
69. The 251st ACS National Meeting & Exposition, San Diego, California March 13-17, 2016
Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in honor of Eric J. Schelter (Dunbar TAMU Ph.D. student)
65. 72nd Annual ACS Southwest Regional Meeting, Galveston, TX, November 10-13, 2016
Symposium on bioinorganic chemistry
66. The 253rd ACS National Meeting & Exposition, San Francisco, California April 2-6, 2017
Symposium: Celebrating 60 Years of the Division of Inorganic Chemistry

Conferences, Symposia and Workshops Organized or Co-Organized

1. American Chemical Society-Division of Inorganic Chemistry March 24-28, 1996
Symposium on Inorganic/Organic Hybrid Materials, New Orleans, LA
2. Vice-Chair, Inorganic Gordon Conference July 19-24, 1998
3. American Chemical Society Division of Chemical Education August 22-26, 1999
Frontiers in Materials Based on Molecular Building Blocks, New Orleans, LA
4. Chair, Inorganic Gordon Conference July 18-23, 1999
5. Co-Chair, *VIIth International Conference on Molecule-Based Magnets* September 16-21, 2000
6. *Pacifichem 2000* (co-chair with Professor Susumu Kitagawa, Kyoto, Japan) December 14-19, 2000
Metal-Based Assemblies with Inorganic-Organic Hybrid Electronic Structures
7. NSF, *Workshop on Future Directions of Solid State Chemistry* October 13, 2001
8. ACS *Symposium on Finite and Infinite Polygonal Assemblies*, Orlando, FL April 2002
9. *36th International Conference on Coordination Chemistry*, Merida, Mexico July18-23, 2004
10. San Diego ACS Meeting Symposium: *The Metal-Cyanide Renaissance, On the Tricentennial of the Synthesis of Prussian Blue* March 13-17, 2005
11. Atlanta ACS Meeting Symposium: *George C. Pimentel Award in Chemical Education – Symposium in honor of F. Albert Cotton* March 26-30, 2006

Publications 1983-present

1. Synthesis and Structural Characterization of $[Re_2Cl_4(PMe_2Ph)_4]^{n+}$ (n = 0, 1, or 2): A Series of Complexes Possessing Metal–Metal Bond Orders of 4, 3.5, and 3 and the Dependence of Bond Length upon Bond Order. F. Albert Cotton, Kim R. Dunbar, Larry R. Falvello, Milagros Tomas and Richard A. Walton *J. Am. Chem. Soc*. **1983**, *105*, 4950-4954.

2. The Reactions of Carbon Monoxide with the Series of Dirhenium Species $[Re_2Cl_4(PMe_2Ph)_4]^{n+}$ (n = 0, 1, 2) Possessing Rhenium–Rhenium Bond Orders of 4, 3.5 and 3. Kim R. Dunbar and Richard A. Walton *Inorg. Chim. Acta* **1984**, *87*, 185-191.

3. Redox Chemistry Associated With Electron-Rich Metal-Metal Triple Bonds. Kim R. Dunbar, Stephen M. Tetrick and Richard A. Walton *Abstracts of The International Conference on Coordination Chemistry* **1984**, 487.

4. The Monocation and Monoanion of $Re_2(\mu\text{-}Cl)_2(\mu\text{-}dppm)_2Cl_4$ (dppm = $Ph_2PCH_2PPh_2$). An Unusual Pair of Complexes possessing Metal–Metal Bond Orders of 1.5 that differ in Electronic Configuration. Kim R. Dunbar, Douglas Powell and Richard A. Walton *J. Chem. Soc., Chem. Commun.* **1985**, 114-116.

5. Cobaltocene Reductions of Multiply Bonded Dirhenium Complexes: Isolation, Characterization, and Reactivity Studies of $[(\eta^5\text{-}C_5H_5)_2Co][Re_2(O_2CR)_4Cl_2]$,$[\eta^5\text{-}C_5H_5)_2Co][Re_2Cl_6(PR_3)_2$ and $[(\eta^5\text{-}C_5H_5)_2Co][Re_2Cl_5(PR_3)_3]$. Kim R. Dunbar and R. A. Walton *Inorg. Chem.* **1985**, *24*, 5-10.

6. Reactions of $Re_2Cl_4(dppm)_2$ with Carbon Monoxide That Proceed with Retention of the Metal–Metal Bond: Synthesis of $Re_2Cl_4(dppm)_2(CO)_n$ (n = 1,2) and the Structural Characterization of $Cl_2Re(\mu\text{-}Cl)(\mu\text{-}Co)(\mu\text{-}dppm)_2ReCl(CO)$. F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Larry R. Falvello, Stephen M. Tetrick and Richard A. Walton *J. Am. Chem. Soc.* **1985**, *107*, 3524-3530.

7. Redox Chemistry of a Pair of Complexes That Contain the Bridging Bis(diphenyl-phosphino)methane Ligand and the Re_2^{6+} and Re_2^{4+} Cores: $Re_2(\mu\text{-}Cl)_2(\mu\text{-}dppm)_2Cl_4$ and $[Re_2(\mu\text{-}dppm)_2Cl_3(NCR)_2]PF_6$ (R = CH_3, C_2H_5, C_6H_5). Kim R. Dunbar, Douglas Powell and Richard A. Walton *Inorg. Chem.* **1985**, *24*, 2842-2846.

8. Structural Characterization of the Triply Bonded Dirhenium(II) Complexes $Re_2Cl_4(\mu\text{-}Ph_2PCH_2PPh_2)_2$ and $\alpha\text{-}Re_2Cl_4(Me_2P(CH_2)_2Pme_2)$. Timothy J. Barder, F. Albert Cotton, Kim R. Dunbar, Gregory L. Powell, Willi Schwotzer and Richard A. Walton *Inorg. Chem.* **1985**, *24*, 2550-2554.

9. Reactions of the Dicarbonyl Complex $Re_2Cl_4(dppm)_2(CO)_2$ with Nitriles and Isocyanides. Synthesis of $[Re_2Cl_3(dppm)_2(CO)_2L]^{n+}$ (n = 0, 1; L = RCN, RNC) and the Structural Characterization of $[Re_2Cl_3(dppm)_2(CO)_2(NCC_2H_5)]PF_6$. F. Albert Cotton, Kim R. Dunbar, Larry R. Falvello and Richard A. Walton *Inorg. Chem.* **1985**, *24*, 4180-4187.

10. Synthesis, Spectroscopy, and X-ray Structure of $Os_2Cl(chp)_4$: An Unusual Os_2^{5+} Complex with a Polar Arrangement of 6-Chloro-2-hydroxypyridinato Ligands and One Axial Chloride. F. Albert Cotton, Kim R. Dunbar and Marek Matusz *Inorg. Chem.* **1986**, *25*, 1585-1589.

11. Preparation And Structural Characterization of $Os_2Cl_4(Ph_2Ppy)_2(O_2CCH_3)$: A Mixed-Ligand Compound With An Os_2^{5+} Core And A Bond Order of 2.5. F. Albert Cotton, Kim R. Dunbar and Marek Matusz *Polyhedron* **1986**, *5*, 903-905.

Publications (continued)

12. Preparation and Structural Characterization of $Os_2Cl_4(chp)_2(L)$ (chp = 6-Chloro-2-hydroxypyridinato; L = H_2O, Pyridine): A New Class of $M_2X_4(LL)_2$ Complexes Possessing an Eclipsed Conformation Where LL Is a Substituted Hydroxypyridinato Ligand. F. Albert Cotton, Kim R. Dunbar and Marek Matusz *Inorg. Chem.* **1986**, *25*, 1589-1594.

13. Reactions of the Dirhenium(II) Complexes $Re_2X_4(dppm)_2$ (X = Cl or Br; dppm = $Ph_2PCH_2PPh_2$) with Isocyanides. 3. Dinuclear Species Containing Two or Three Isocyanide Ligands. Lori Beth Anderson, Timothy J. Barder, F. Albert Cotton, Kim R. Dunbar, Larry R. Falvello and Richard A. Walton *Inorg. Chem.* **1986**, *25*, 3629-3636.

14. Mixed Carbonyl–Isocyanide and Carbonyl–Nitrile Complexes Derived from the Reactions of the Multiply Bonded Dirhenium(II) Complexes $Re_2X_4(dppm)_2(CO)$ (X = Cl or Br; dppm = $Ph_2PCH_2PPh_2$). The Structural Characterization of $Cl_2Re(\mu\text{-}Cl)(\mu\text{-}dppm)_2ReCl(CO)$ and $Cl_2Re(\mu\text{-}Cl)(\mu\text{-}CO)(\mu\text{-}dppm)_2ReCl(CNxylyl)$. F. Albert Cotton, Kim R. Dunbar, Andrew C. Price, Willi Schwotzer and Richard A. Walton *J. Am. Chem. Soc.* **1986**, *108*, 4843-4850.

15. The Multiply Bonded Octahalodiosmate(III) Anions. 2. Structure and Bonding. Pradyot A. Agaskar, F. Albert Cotton, Kim R. Dunbar, Larry R. Falvello, Stephen M. Tetrick and Richard A. Walton *J. Am. Chem. Soc.* **1986**, *108*, 4850-4855.

16. Synthesis and Molecular Structure of $Mo_2I_4(dppm)_2 \bullet 2C_7H_8$ (dppm = Bis(diphenylphosphino)methane). F. Albert Cotton, Kim R. Dunbar and Rinaldo Poli *Inorg. Chem.* **1986**, *25*, 3700-3703.

17. Quadruply Bonded $Mo_2I_4(dppe)_2$ (dppe = Bis(diphenylphosphino)ethane): Twisted and Eclipsed Rotational Conformations and Their Significance. F. Albert Cotton, Kim R. Dunbar and Marek Matusz *Inorg. Chem.* **1986**, *25*, 3641-3649.

18. Isolation and Structure of $Os_2Cl_4[(C_6H_5)_2P(C_6H_4)]_2$. An M_2L_8 Compound with an Unprecedented Geometry and a Short Os–Os Bond. F. A. Cotton and Kim R. Dunbar *J. Am. Chem. Soc.* **1987**, *109*, 2199-2200.

19. Conversion of an Electron-Rich Triple Bond to a Double Bond by Oxidative Addition of Diphenyl Diselenide to $Re_2Cl_4(\mu\text{-}dppm)_2$. Preparation and Characterization of $Re_2Cl_4(\mu\text{-}SePh)_2(\mu\text{-}dppm)_2$ (dppm = Bis(diphenylphosphino)methane). F. Albert Cotton and Kim R. Dunbar *Inorg. Chem.* **1987**, *26*, 1305-1309.

20. Isolation and Structure of the Novel Dirhodium(II) Compound $Rh_2(dmpm)_2[(C_6H_5)_2P(C_6H_4)]_2Cl_2$ with Bridging Bis(dimethylphosphino)methane and Ortho-Metalated Triphenylphosphine Ligands. F. A. Cotton and Kim R. Dunbar *J. Am. Chem. Soc.* **1987**, *109*, 3142-3143.

21. Reactions of the Dirhenium(II) Complexes $Re_2X_4(dppm)_2$ (X = Cl or Br; dppm = $Ph_2PCH_2PPh_2$) with Isocyanides. 4. Isomerism in Mixed Carbonyl–Isocyanide Complexes of Stoichiometry $[Re_2Cl_3(dppm)_2(CO)_2(CNR)]^{n+}$ (n = 0 or 1) and $[Re_2Cl_3(dppm)_2(CO)(CNR)_2]^+$ (R = *t*-Bu or Xylyl), Which Possess Edge-Shared Bioctahedral Structures. Lori Beth Anderson, F. Albert Cotton, Kim R. Dunbar, Larry R. Falvello, Andrew C. Price, Austin H. Reid and Richard A. Walton *Inorg. Chem.* **1987,** *26*, 2717-2725.

22. New Directions in the Chemistry of Dirhodium(II) Compounds. F. Albert Cotton, Kim R. Dunbar and Mark G. Verbruggen *J. Am. Chem. Soc.* **1987**, *109*, 5498-5506.

Publications (continued)

23. Oxidative Addition to M–M Quadrulple Bonds. Preparation of New Edge-Sharing Bioctahedral Complexes of the Type (L-L)$Cl_2M(\mu\text{-}Cl)_2MCl_2$(L-L) (M = Mo, W, L-L = 1,2-Bis(diphenylphosphino)ethane; M = Mo, L-L = 1-(Diethylphosphino)-2-(diphenylphosphino)ethane). P. A. Agaskar, F. A. Cotton, K. R. Dunbar, L. R. Falvello and C. J. O'Connor *Inorg. Chem.* **1987**, *26*, 4051-4057.

24. Reactions of $Rh_2(O_2CCH_3)_2(C_6H_4PPh_2)_2 \bullet 2CH_3COOH$ with Chlorotrimethylsilane in the Presence of Monodentate Phosphines To Give $[Rh_2Cl_2(C_6H_4PPh_2)_2(PPh_3)_2]$ and $[Rh_2Cl_2(C_6H_4PPh_2)_2(Pme_3)_2]$. F. Albert Cotton, Kim R. Dunbar and Cassandra T. Eagle *Inorg. Chem.* **1987**, *26*, 4127-4130.

25. Oxidative-Addition Reactions of S–S and Se–Se Bonds to Mo_2 and W_2 Quadruple Bonds. Jo Ann M. Canich, F. Albert Cotton, Kim R. Dunbar and Larry R. Falvello *Inorg. Chem.* **1988**, *27*, 804-811.

26. Spectroscopic and Structural Investigation of the Unbridged Dirhodium Cation $[Rh_2(CH_3CN)_{10}]^{4+}$. K. R. Dunbar *J. Am. Chem. Soc.* **1988**, *110*, 8247-8249.

27. Edge-Sharing Bioctahedral Molecules without Metal–Metal Bonds: The d^6–d^6 Complexes $Rh_2X_4(\mu\text{-}X)_2(\mu\text{-dppm})_2$ (X = Cl, Br). F. Albert Cotton, Kim R. Dunbar, Cassandra T. Eagle, Larry R. Falvello and Andrew C. Price *Inorg. Chem.* **1989**, *28*, 1754-1757.

28. Isolation, Structure, and Magnetic Properties of a Novel Mononuclear Rhodium(II) Complex. K. R. Dunbar, S. C. Haefner and L. E. Pence *J. Am. Chem. Soc.* **1989**, *111*, 5504-5506.

29. Synthesis, Spectroscopic Studies, and Structure of an Unusual Dirhenium Complex with a Bridging Hydride Ligand. S. J. Chen and K. R. Dunbar *Inorg. Chem.* **1990**, *29*, 529-534.

30. Synthesis and Characterization of $Rh_2(O_2CCH_3)_3[\{C_6H_2(OMe)_3\}_2P\{C_6H_2(OMe)_2O\}](MeOH)$ with a Novel Tridentate Ligand Derived from Tris(2,4,6-trimethoxyphenyl)phosphine. S. J. Chen and K. R. Dunbar *Inorg. Chem.* **1990**, *29*, 588-590.

31. Isolation and Structure of the Fluxional Phosphine Complex (η^3-PR_3)$Mo(CO)_3$ (R = 2,4,6-Trimethoxyphenyl). K. R. Dunbar, S. C. Haefner and D. J. Burzynski *Organometallics* **1990**, *9*, 1347-1349.

32. Synthesis And Characterization Of $[\{2,4,6\text{-}(CH_3O)_3C_6H_2\}_3P{=}O]FeCl_3$: A Four-Coordinate Phosphine Oxide Adduct Of $FeCl_3$. Kim R. Dunbar, Steven C. Haefner and Anne Quillevéré *Polyhedron* **1990**, *9*, 1695-1702.

33. Structure of $[HTMPP]_3W_2Cl_9$ [HTMPP = Tris(2,4,6-trimethoxyphenyl)phosphonium]. K. R. Dunbar and L. E. Pence *Acta Cryst.* **1991**, *C47*, 23-26.

34. Binding of 2,2′-Bipyridine to the Dirhodium(II) Tetraacetate Core: Unusual Structural Features and Biological Relevance of the Product $Rh_2(Oac)_4(bpy)$. Spiros P. Perlepes, John C. Huffman, John H. Matonic, Kim R. Dunbar and George Christou *J. Am. Chem. Soc.* **1991**, *113*, 2770-2771.

35. $[\{Re_2Cl_4(dppm)_2\}_2(\mu\text{-TCNQ})]$, a Novel Charge Transfer Complex Derived from a Donor with a Metal-Metal Multiple Bond. Stuart L. Bartley and Kim R. Dunbar *Angew. Chem. Int. Ed. Eng.* **1991**, *30*, 448-450.

Publications (continued)

36. Elucidation of the Reversible Carbon Monoxide Reactions of a Paramagnetic Rhodium(II) Complex. Kim R. Dunbar, Steven C. Haefner and Paul N. Swepston *J. Chem. Soc., Chem. Commun.* **1991**, 460-462.

37. Chemistry of Tris(2,4,6-trimethoxyphenyl)phosphine (TMPP) with Dirhodium Tetraacetate: Synthesis and Spectroscopic, Electrochemical, and Structural Characterization of a Binuclear Complex That Contains an Unusual Phenoxy–Phosphine Ligand. S. J. Chen and K. R. Dunbar *Inorg. Chem.* **1991**, *30*, 2018-2023.

38. Oxidative Addition of Halogens to the Quadruple Bond of $Mo_2X_4(dppm)_2$ (X = Cl, I, Br): Synthesis, Structural Characterization, and Magnetic Properties of $Mo_2Cl_4I_2(dppm)_2$, $Mo_2Br_6(dppm)_2$, and $Mo_2I_6(dppm)_2$. F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Larry R. Falvello, Charles J. O'Connor and Andrew C. Price *Inorg. Chem.* **1991**, *30*, 2509-2514.

39. Bis(diphenylphosphino)methane complexes of rhodium(III) halides as synthons for dinuclear rhodium(III) complexes. F. Albert Cotton, Kim R. Dunbar, Cassandra T. Eagle, Larry R. Falvello, Seong-Joo Kang, Andrew C. Price and Mark G. Verbruggen *Inorg. Chim. Acta* **1991**, *184*, 35-42.

40. Isomerism in the $Mo_2(\mu\text{-}O_2CCF_3)_4$/bpy Reaction System: Thermal and Photochemical Conversion of the Ion-Pair Complex $[Mo_2(\mu\text{-}O_2CCF_3)_2(bpy)_2](O_2CCF_3)0_2$ to the Unbridged Neutral Isomer $Mo_2(\eta^1\text{-}O_2CCF_3)_4(bpy)_2$. John H. Matonic, Sue-Jane Chen, Spiros P. Perlepes, Kim R. Dunbar and George Christou *J. Am. Chem. Soc.* **1991**, *113*, 8169-8171.

41. Reversible Carbon Monoxide Reactions of Cationic Rh(I) and Rh(II) Complexes. Steven C. Haefner, Kim R. Dunbar and Christopher Bender *J. Am. Chem. Soc*. **1991**, *113*, 9540-9553.

42. Structure of $[CH_3TMPP]_2Co_2Cl_6$[CH_3TMPP = Tris(2,4,6-trimethoxyphenyl)-methylphosphonium]. K. R. Dunbar, A. Quillevéré and S. C. Haefner *Acta Cryst.* **1991**, *C47*, 2319-2321.

43. Decakis(Acetonitrile)Dirhodium(II) Tetrafluoroborate. Kim R. Dunbar and Laura E. Pence *Inorg. Synth.* **1992**, *29*,182-185.

44. An Unusual Complex Derived From $MoCl_3(THF)_3$ And $AgBF_4$ In Acetonitrile: Synthesis And Structure Of $[Mo_2(\mu\text{-}F)(NCCH_3)_8O_2][BF_4]_3$. John H. Matonic, Sue-Jane Chen, Laura E. Pence and Kim R. Dunbar *Polyhedron* **1992**, *11*, 541-546.

45. Structural and Spectroscopic Characterization of a Paramagnetic Isocyanide Complex of Rhodium (II). Kim R. Dunbar and Steven C. Haefner *Organometallics* **1992**, *11*, 1431-1433.

46. Reversible Carbon Monoxide Addition to Sol–Gel Derived Composite Films Containing a Cationic Rhodium(I) Complex: Toward the Development of a New Class of Molecule-Based CO Sensors. Joel I. Dulebohn, Steven C. Haefner, Kris A. Berglund and Kim R. Dunbar *Chem. Of Materials* **1992**, *4*, 506-508.

47. Crystallographic Disorder in the Orthorhombic Form of $RhCl(CO)(PPh_3)_2$: Relevance to the Reported Structure of the Paramagnetic Impurity in Wilkinson's Catalyst. Kim R. Dunbar and Steven C. Haefner *Inorg. Chem.* **1992**, *31*, 3676-3679.

48. *New Applications of Weak Donor Atoms to Coordination, Organometallic and Materials Chemistry. Kim R. Dunbar *Comments Inorg. Chem.* **1992**, *13*, 313-357.

Publications (continued)

49. Unusual Structural Features of Tetrakis(μ-carboxylato)dirhodium(II), an Antitumor Agent, Bound to Azathioprine, a Biologically Active Mercaptopurine Derivative. H. T. Chifotides, K. R. Dunbar, J. H. Matonic and N. Katsaros *Inorg. Chem.* **1992**, *31*, 4628-4634.

50. Novel Strategies for the Synthesis and Crystallization of Electrophilic Dinuclear Cations: Solution and Solid-State Properties of $[Re_2(NCCH_3)_{10}][Mo_6O_{19}]_2$. Stacey N. Bernstein and Kim R. Dunbar *Angew. Chem. Int. Ed. Engl.* **1992**, *31*, 1360-1362.

51. $[Fe_2Cl_6]^{2-}$: A Discrete Form of Ferrous Chloride. Kim R. Dunbar and Anne Quillevéré *Angew. Chem. Int. Ed. Engl.* **1993**, *32*, 293-295.

52. The Oxygenation of the Electron-rich Triple Bond in the Complexes $[Re_2X_4(\mu\text{-dppm})_2]$ [X = Cl or Br; dppm = bis(diphenylphosphino)methane]. Multielectron Redox Behaviour involving Retention of the $Re_2X_4P_4$ Unit. Stuart L. Bartley, Kim R. Dunbar, Keng-Yu Shih, Phillip E. Fanwick and Richard A. Walton *J. Chem. Soc., Chem. Commun.* **1993**, 98-100.

53. An Unusual Heterobimetallic Compound with a Rhodium(I)–η^4-Arene Interaction. Kim R. Dunbar and Anne Quillevéré *Organometallics* **1993**, *12*, 618-620.

54. Investigation of the Intermediates in the Oxidation of a Bulky Arylphosphine Ligand with Ferric Chloride. Kim R. Dunbar and Anne Quillevéré *Polyhedron* **1993**, *12*, 807-819.

55. Reactions of the Electron-Rich Triply Bonded Dirhenium(II) Complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br) with Dioxygen. 1. Multielectron Redox Chemistry with Preservation of the $Re_2X_4(dppm)_2$ Unit. Stuart L. Bartley, Kim R. Dunbar, Keng-Yu Shih, Phillip E. Fanwick and Richard A. Walton *Inorg. Chem.* **1993**, *32*, 1341-1349.

56. Reaction of 2,2′-Bipyridine (bpy) with Dirhodium Carboxylates: Mono-bpy Products with Variable Chelate Binding Modes and Insights into the Reaction Mechanism. Charles A. Crawford, John H. Matonic, William E. Streib, John C. Huffman, Kim R. Dunbar and George Christou *Inorg. Chem.* **1993**, *32*, 3125-3133.

57. *Acetonitrile and cyanide compounds containing metal–metal bonds: syntheses, structures and applications to solid-state chemistry. Stuart L. Bartley, Stacey N. Bernstein and Kim R. Dunbar, Topical Volume of *Inorg. Chim. Acta.* Entitled "Metal-Metal Bonds/Clusters/Polynuclear Metal Complexes" **1993**, *213*, 213-231.

58. *Review of the Coordination Chemistry of Tungsten for 1991. Kim R. Dunbar and Gary M. Finniss *Coord. Chem. Rev*. **1993**, *127*, 65-97.

59. The Interaction of Dinuclear Rhodium (II) Complexes With Nitrogen Donor Ligands of Biological Relevance. K. R. Dunbar, J. H. Matonic, V. P. Saharan, C. A. Crawford and G. Christou *J. Inorg. Biochem*. **1993**, *51*, 401.

60. Complexes Containing Heteronuclear and Homonuclear Quadruple Bonds. Preparation and Characterization of $MoWCl_4(dmpm)_2$ and $Mo_2X_4(dmpm)_2$ (X = Br, I). F. A. Cotton, K. R. Dunbar, B. Hong, C. A. James, J. H. Matonic and J. L. C. Thomas *Inorg. Chem*. **1993**, *32*, 5183-5187.

61. Polynuclear Rhodium(II) Compounds with Phosphino–Phenoxide Ligands. Kim R. Dunbar, John H. Matonic and Vijay P. Saharan *Inorg. Chem*. **1994**, *33*, 25-31.

Publications (continued)

62. Structural Evidence for a New Metal-Binding Mode for Guanine Bases: Implications for the Binding of Dinuclear Antitumor Agents to DNA. Kim R. Dunbar, John H. Matonic, Vijay P. Saharan, Charles A. Crawford and George Christou *J. Am. Chem. Soc.* **1994**, *116*, 2201-2202.

63. Synthesis And Properties Of Tris(2,4,6-Trimethoxyphenyl)Phosphine And Tris(2,4,6-Trimethoxyphenyl)Phosphine Oxide. Kim R. Dunbar and Steven C. Haefner *Polyhedron* **1994**, *13*, 727-736.

64. A mixed-metal salt comprised of metal-metal bonded dinuclear ions: structure and properties of $[Rh_2(Oac)_2(MeCN)_6][Re_2Cl_8]$. Kim R. Dunbar, Laura E. Pence and Julie L. C. Thomas *Inorg. Chim. Acta.* **1994**, *217*, 79-84.

65. Incorporation of Quadruply-Bonded Units into Solid-State Materials. Kim R. Dunbar *J. Cluster Science* **1994**, *5*, 125-143.

66. Synthesis, Spectroscopic and Magnetic Resonance Studies of Mercury(II) and Methylmercury(II) Complexes of Azathioprine, a Biologically Active Mercaptopurine Derivative. Helen T. Chifotides, Kim R. Dunbar, Nikos Katsaros and George Pneumatikakis *J. Inorg. Biochem.* **1994**, *55*, 203-216.

67. Carbon Monoxide Reactions of the Fluxional Phosphine Complex (η^3-PR_3)$Mo(CO)_3$ (R = 2,4,6-Trimethoxyphenyl). Kim R. Dunbar, Jui-Sui Sun, Steven C. Haefner and John H. Matonic *Organometallics* **1994**, *13*, 2713-2720.

68. Spectroscopic and Structural Investigation of Nickel(II) and Nickel(III) Compounds Stabilized by Identical P,O Ligands. Kim R. Dunbar, Jui-Sui Sun and Anne Quillevéré *Inorg. Chem.* **1994**, *33*, 3598-3601.

69. New Metal-Binding Mode for Adenine: A Bidentate (N6, N7) Bridging Mode in the Complex $[Mo_2(O_2CCHF_2)_2(9\text{-EtAH})_2(MeCN)_2](BF_4)_2 \cdot 2MeCN$. Elizabeth F. Day, Charles A. Crawford, Kirsten Folting, Kim R. Dunbar and George Christou *J. Am. Chem. Soc.* **1994**, *116*, 9339-9340.

70. Synthesis and Structure of the Distorted Octahedral Palladium(II) Complex $[Pd(tmpp)_2][BF_4]_2$ [tmpp = tris(2,4,6-trimethoxyphenyl)phosphine]. Kim R. Dunbar and Jui-Sui Sun *J. Chem. Soc., Chem. Commun.* **1994**, 2387-2388.

71. *Review of the Coordination Chemistry of Tungsten for 1992. Kim R. Dunbar and Vijay P. Saharan *Coord. Chem. Rev.* **1995**, *138*, 39-70.

72. Review of "Multiple Bonds Between Metal Atoms. Second Edition." Kim R. Dunbar *J. Am. Chem. Soc*. **1994**, *116*, 7957.

73. Acetonitrile complexes of diiridium Part 1. Isolation and characterization of the partially solvated cations $[Ir_2(COD)(\mu\text{-form})_2(MeCN)_3]^{2+}$ and $[Ir_2(\mu\text{-form})_2(MeCN)_6]^{2+}$ (COD = 1,5-cyclooctadiene, form = *N,N'*-di-*p*-tolylformamidinate). Kim R. Dunbar, Shannon O. Majors and Jui-Sui Sun *F. A. Cotton Honor Inorg. Chim. Acta. Special Issue* **1995**, *229*, 373-382.

74. Paramagnetic Transition Metal Complexes With σ-Bonded Tetracyanoethylene (TCNE). Kim R. Dunbar and Xiang Ouyang *Mol. Cryst. Liq. Cryst.,* Proceedings of the IV International Conference on Molecule Based Magnets, 16-21 October 1994, Salt Lake City, Utah, **1995**, *273*, 21-28.

Publications (continued)

75. Magnetic Studies of Polynuclear Iron (II) Complexes and their Application to the Synthesis of Extended Structures. Kim R. Dunbar and Jui-Sui Sun *Mol. Cryst. Liq. Cryst.,* Proceedings of the IV International Conference on Molecule Based Magnets, 16-21 October 1994, Salt Lake City, Utah, **1995**, *274*, 51-62.

76. Chemistry of tris(2,4,6-trimethoxyphenyl)phosphine with rhodium(I) and iridium(I) olefin complexes. Kim R. Dunbar, Steven C. Haefner, Calvin E. Uzelmeier and Anthony Howard *Basolo Honor Special Volume Inorg. Chim. Acta* **1995**, *240*, 527-534.

77. Photochemistry of deca(acetonitrile) dirhodium(II) cation: evidence for kilosecond-lived photoinduced charge separation. Chris A. James, David E. Morris, Stephen K. Doorn, C. Anthony Arrington, Jr., Kim R. Dunbar, Gary M. Finnis, Laura E. Pence and William H. Woodruff *Gray Honor Special Volume Inorg. Chim. Acta* **1996**, *242*, 91-96.

78. N^7,O^6 bridging 9-ethylguanine (9-EtGH) groups in dinuclear metal–metal bonded complexes with bond orders of one, two or four. Charles A. Crawford, Elizabeth F. Day, Vijay P. Saharan, Kirsten Folting, John C. Huffman, Kim R. Dunbar and George Christou *Chem. Commun.* **1996**, 1113-1114.

79. Organocyanide Acceptor Molecules as Novel Ligands. Kim R. Dunbar *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 1659-1661.

80. Ligand Effects On The $\delta \rightarrow \delta^*$ Band Energies And Intensities In A Series Of Diimine Complexes Of Dimolybdenum. D. M. Baird, F. L. Yang, D. J. Kavanaugh, G. Finniss and K. R. Dunbar *Polyhedron* **1996**, *15*, 2597-2606.

81. "Design, Synthesis And Processing Of Molecular-Organic And Inorganic-Magnetic Materials" NATO ASI Series *Molecular Magnetism: From Molecular Assemblies to the Devices*. S. DeCurtins, K. R. Dunbar, C. J. Gomez-Garcia, T. Mallah, R. G. Raptis, D. Talham and J. Veciana (Eds: E. Coronado, P. Delhaès, D. Gatteschi, J. S. Miller) Kluwer, **1996**, NATO ASI Series vol. E321, 571-582.

82. *Bioinorganic chemistry: Antitumor chemistry. Kim R. Dunbar and Kemal V. Catalan *McGraw Hill Encyclopedia of Science &Technology 1997*, McGraw-Hill, **1996**, 40-43.

83. A novel one-dimensional structure involving μ_4-TCNQ ligands and quadruply bonded dimolybdenum units (TCNQ = 7,7,8,8-tetracyanoquinodimethane). Charles Campana, Kim R. Dunbar and Xiang Ouyang *Chem. Commun.* **1996**, 2427-2428.

84. Unprecedented Two-Dimensional Polymers of Mn(II) with $TCNQ^{-\cdot}$ (TCNQ = 7,7,8,8-Tetracyanoquinodimethane). Hanhua Zhao, Robert A. Heintz, Kim R. Dunbar and Robin D. Rogers *J. Am. Chem. Soc.* **1996**, *118*, 12844-12845.

85. Preparation, Molecular and Electronic Structures, and Magnetic Properties of Face-Sharing Bioctahedral Titanium(III) Compounds: $[PPh_4][Ti_2(\mu\text{-}Cl)_3Cl_4(PR_3)_2]$. Linfeng Chen, F. Albert Cotton, Kim R. Dunbar, Xuejun Feng, Robert A. Heintz and Calvin Uzelmeier *Inorg. Chem*. **1996**, *35*, 7358-7363.

86. A One-Dimensional Metallopolymer of 2,5-Dimethyl-*N,N'*-Dicyanoquinone Diimine (2,5-DM-DCNQI). Xiang Ouyang, Charles Campana and Kim R. Dunbar *Inorg. Chem*. **1996**, *35*, 7188-7189.

Publications (continued)

87. Unprecedented Conversion of a Compound with Metal–Metal Bonding into a Solvated Molecular Wire. Gary M. Finniss, Enric Canadell, Charles Campana and Kim R. Dunbar *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 2771-2774.

88. *Chemistry of Transition Metal Cyanide Compounds: Modern Perspectives. Kim R. Dunbar and Robert A. Heintz *Prog. Inorg. Chem.* **1997**, *45*, 283-391.

89. Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic-inorganic polymeric networks. M. Fourmigué, C. E. Uzelmeier, K. Boubekeur, S. L. Bartley and K. R. Dunbar *J. Organomet. Chem.* **1997**, *529*, 343-350.

90. Reaction of Nitrogen Chelates with the $[Rh_2]^{4+}$ Core: Bis-Chelate Products and Demonstration of Reversible, Chelate-Based Reduction Processes. Charles A. Crawford, John H. Matonic, John C. Huffman, Kirsten Folting, Kim R. Dunbar and George Christou *Inorg. Chem.* **1997**, *36*, 2361-2371.

91. A Novel Dirhodium Compound with Neutral, Bridging 9-Ethyladenine Ligands. Kemal V. Catalan, Daniel J. Mindiola, Donald L. Ward and Kim R. Dunbar *Inorg. Chem.* **1997**, *36*, 2458-2460.

92. Analysis of Transition-Metal Compounds Containing Tetrathiafulvalene Phosphine Ligands by Fast Atom Bombardment Mass Spectrometry: Limitations and the Development of Matrix Additives for the Desorption of Multiply Charged Complexes. John M. Asara, Calvin E. Uzelmeier, Kim R. Dunbar and John Allison *Inorg. Chem.* **1998**, *37*, 1833-1840.

93. Pd(II) and Pt(II) complexes with mixed phosphorus–oxygen donor ligands. Jui-Sui Sun, Calvin E. Uzelmeier, Donald L. Ward and Kim R. Dunbar *Polyhedron* **1998**, *17*, 2049-2063.

94. 3,4-Dimethyltetrathiafulvalene. Calvin E. Uzelmeier, Marc Fourmigué and Kim R. Dunbar *Acta. Cryst.* **1998**, *C54*, 1047-1049.

95. Reaction of Octachlorodirhenate with a Redox-Active Tetrathiafulvalene Phosphine Ligand: Spectroscopic, Magnetic, and Structural Characterization of the Unusual Paramagnetic Salt $[ReCl_2(o\text{-}P2)_2][Re_2Cl_6(o\text{-}P2)]$ (*o*-P2 = *o*-$\{P(C_6H_5)_2\}_2(CH_3)_2TTF$). Calvin E. Uzelmeier, Stuart L. Bartley, Marc Fourmigué, Robin Rogers, Giulio Grandinetti and Kim R. Dunbar *Inorg. Chem.* **1998**, *37*, 6706-6713.

96. A quadruply-bonded dirhenium complex bridged by two N^1/N^6 adenate ligands. Matthew E. Prater, Daniel J. Mindiola, X. Ouyang and Kim R. Dunbar *Inorg. Chem. Commun.* **1998**, *1*, 475-477.

97. Insight Into The Behavior of $M(TCNQ)_n$ (n = 1, 2) Crystalline Solids And Films: X-ray, Magnetic And Conducting Properties. Hanhua Zhao, Robert A. Heintz, Xiang Ouyang, Giulio Grandinetti, Jerry Cowen and Kim R. Dunbar *NATO ASI: Supramolecular Engineering of Synthetic Metallic Materials: Conductors and Magnets*, Ed: J. Veciana, Kluwer: Dordrecht, **1999**, *518*, 353-376.

98. New Insight into the Nature of Cu(TCNQ): Solution Routes to Two Distinct Polymorphs and Their Relationship to Crystalline Films that Display Bistable Switching Behavior. Robert A. Heintz, Hanhua Zhao, Xiang Ouyang, Giulio Grandinetti, Jerry Cowen and Kim R. Dunbar *Inorg. Chem.* **1999**, *38*, 144-156.

99. Spectroscopic, Thermal, and Magnetic Properties of Metal/TCNQ Network Polymers with Extensive Supramolecular Interactions between Layers. H. Zhao, R. A. Heintz, X. Ouyang, K .R. Dunbar, C. F. Campana and R. D. Rogers *Chem. Mater.* **1999**, *11*, 736-746.

Publications (continued)

100. Reactions of DNA Purines with Dirhodium Formamidinate Compounds That Display Antitumor Behavior. K. V. Catalan, J. S. Hess, M. M. Maloney, D. J. Mindiola, D. L. Ward and K. R. Dunbar *Inorg. Chem.* **1999**, *38*, 3904-3913.

101. A Remarkable Family of Rhodium Acetonitrile Compounds Spanning Three Oxidation States and with Nuclearities Ranging from Mononuclear and Dinuclear to One-Dimensional Chains. M. E. Prater, L. E. Pence, R. Clérac, G. M. Finniss, C. Campana, P. Auban-Senzier, D. Jérome, E. Canadell and K. R. Dunbar *J. Am. Chem. Soc.* **1999**, *121*, 8005-8016.

102. The Use of Organic Acceptors as Ligands for Paramagnetic Metal Centers: a New Spin on Charge-Transfer Solids. Jerry Cowen, Rodolphe Clérac, Robert A. Heintz, Shannon O'Kane, Xiang Ouyang, Hanhua Zhao and Kim R. Dunbar *Mol. Cryst. And Liq. Cryst. Proceedings of the Vith International Conference on Molecule Based Magnets*, September, Seignosse Le Penon, France, **1999**, *335*, 113-132.

103. A One-Pot, High-Yield Synthesis of a Paramagnetic Nickel Square from Divergent Precursors by Anion Template Assembly. Cristain S. Campos-Fernández, Rodolphe Clérac and Kim R. Dunbar *Angew. Chem. Int. Ed.* **1999**, *38*, 3477-3479.

104. Structures, Magnetic Properties, and Reactivity Studies of Salts Containing the Dinuclear Anion $[M_2Cl_6]^{2-}$ (M = Mn, Fe, Co). Jui-Sui Sun, Hanhua Zhao, Xiang Ouyang, Rodolphe Clérac, Jennifer A. Smith, Juan M. Clemente-Juan, Carlos Gómez-Garcia, Eugenio Coronado and Kim R. Dunbar *Inorg. Chem.* **1999**, *38*, 5841-5855.

105. A Reinvestigation by Circular Dichroism and NMR: Ruthenium(II) and Rhodium(III) Metallointercalators Do Not Bind Cooperatively to DNA. (Research by S. J. Franklin, C. R. Treadway and J. K. Barton.) Summary by Karn Sorasaenee and Kim R. Dunbar *CHEMTRACTS* **1999**, *12*, 870-883.

106. Further Study of the Linear Trinickel(II) Complex of Dipyridylamide. Rodolphe Clérac, F. Albert Cotton, Kim R. Dunbar, Carlos A. Murillo, Isabel Pascual and Xiaoping Wang *Inorg. Chem*. **1999**, *38*, 2655-2657.

107. Evidence for Binding of Dirhodium Bis-Acetate Units to Adjacent GG and AA Sites on Single-Stranded DNA. John M. Asara, Jennifer S. Hess, Elizabeth Lozada, Kim R. Dunbar and John Allison *J. Am. Chem. Soc.* **2000**, *122*, 8-13.

108. A new family of dimolybdenum compounds with cyanide and phosphine ligands. Paul S. Szalay and Kim R. Dunbar *Inorg. Chem. Commun.* **2000**, *3*, 49-51.

109. Linear Trichromium Complexes with Direct Cr to Cr Contacts. 1. Compounds with $Cr_3(dipyridylamide)_4^{2+}$ Cores. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Carlos A. Murillo and Isabel Pascual *Inorg. Chem.* **2000**, *39*, 748-751.

110. Linear Trichromium Complexes with Direct Cr to Cr Contacts. 2. Compounds with $Cr_3(dipyridylamide)_4^{3+}$ Cores. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Carlos A. Murillo and Isabel Pascual *Inorg. Chem.* **2000**, *39*, 752-756.

111. Homoleptic complexes of Ag(I), Cu(I), Pd(II) and Pt(II) with tetrathiafulvalene-functionalized phosphine ligands. Bradley W. Smucker and Kim R. Dunbar *J. Chem. Soc., Dalton Trans.* **2000**, 1309-1315.

Publications (continued)

112. A New Linear Tricobalt Compound with Di(2-pyridyl)amide (dpa) Ligands: Two-Step Spin Crossover of $[Co_3(dpa)_4Cl_2][BF_4]$. Rodolphe Clérac, F. Albert Cotton, Kim R. Dunbar, Tongbu Lu, Carlos A. Murillo and Xiaoping Wang *J. Am. Chem. Soc.* **2000**, *122*, 2272-2278.

113. New Crystalline Polymers of Ag(TCNQ) and $Ag(TCNQF_4)$: Structures and Magnetic Properties. Shannon A. O'Kane, Rodolphe Clérac, Hanhua Zhao, Xiang Ouyang, José-Ramón Galán-Mascarós, Robert Heintz and Kim R. Dunbar *J. Solid State Chem.* **2000**, *152*, 159-173.

114. $\{Mn(OH_2)_2[Mn(bpym)(OH_2)]_2[Fe(CN)_6]_2\}_\infty$: a two-dimensional ferrimagnet with a partial cubane motif. Jennifer A. Smith, José-Ramón Galán-Mascarós, Rodolphe Clérac and Kim R. Dunbar *Chem. Commun.* **2000**, 1077-1078.

115. A Homologous Series of Redox-Active, Dinuclear Cations with the Bridging Ligand 2-(2-Pyridyl)-1,8-naphthyridine. Cristian Saul Campos-Fernández, Xiang Ouyang and Kim R. Dunbar *Inorg. Chem.* **2000**, *39*, 2432-2433.

116. New Linear Tricobalt Complex of Di(2-pyridyl)amide (dpa), $[Co_3(dpa)_4(CH_3CN)_2][PF_6]_2$. Rodolphe Clérac, F. Albert Cotton, Kim R. Dunbar, Tongbu Lu, Carlos A. Murillo and Xiaoping Wang *Inorg. Chem.* **2000**, *39*, 3065-3070.

117. Linear Trichromium Complexes with the Anion of 2,6-Di(phenylimino)piperidine. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Carlos A. Murillo and Hong-Cai Zhou *Inorg. Chem.* **2000**, *39*, 3414-3417.

118. Linear Tricobalt Compounds with Di(2-pyridyl)amide (dpa) Ligands: Temperature Dependence of the Structural and Magnetic Properties of Symmetrical and Unsymmetrical Forms of $Co_3(dpa)_4Cl_2$ in the Solid State. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Kristin Kirschbaum, Carlos A. Murillo, A. Alan Pinkerton, Arthur J. Schultz and Xiaoping Wang *J. Am. Chem. Soc.* **2000**, *122*, 6226-6236.

119. Hexagonal Layered Materials Composed of $[M_2(O_2CCF_3)_4]$ (M = Ru and Rh) Donors and TCNQ Acceptors. Hitoshi Miyasaka, Cristian S. Campos-Fernández, Rodolphe Clérac and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2000**, *39*, 3831-3835.

120. One-Dimensional Assemblies of Dirhodium Units Bridged by *N,N'*-Dicyanoquinonediimine Ligands. Hitoshi Miyasaka, Cristian S. Campos-Fernández, José Ramón Galán-Mascarós and Kim R. Dunbar *Inorg. Chem.* **2000**, *39*, 5870-5873.

121. A microporous framework from a magnetic molecular square: $[Co(HAT)Cl_2]_4$ (HAT = 1,4,5,8,9,11-hexaazatriphenylene). José R. Galán-Mascarós and Kim R. Dunbar *Chem. Commun.* **2001**, 217-218.

122. Structural and magnetic properties of $Co_3(dpa)_4Br_2$. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Carlos A. Murillo and Xiaoping Wang *J. Chem. Soc., Dalton Trans.* **2001**, 386-391.

123. Dinuclear and Heteropolynuclear Complexes Containing Mo_2^{4+} Units. Rodolphe Clérac, F. Albert Cotton, Kim R. Dunbar, Carlos A. Murillo and Xiaoping Wang *Inorg. Chem.* **2001**, *40*, 420-426.

Publications (continued)

124. Fine-Tuning the Ring-Size of Metallacyclophanes: A Rational Approach to Molecular Pentagons. Cristian Saul Campos-Fernández, Rodolphe Clérac, John M. Koomen, David H. Russell and Kim R. Dunbar *J. Am. Chem. Soc.* **2001**, *123*, 773-774.

125. The first crystal structure of a one-dimensional chain of linked Ru^{II}=Ru^{II} units. Hitoshi Miyasaka, Rodolphe Clérac, Cristian S. Campos-Fernández and Kim R. Dunbar *J. Chem. Soc., Dalton Trans.* **2001**, 858-861.

126. Tuning the Metal–Metal Bonds in the Linear Tricobalt Compound $Co_3(dpa)_4Cl_2$: Bond-Stretch and Spin-State Isomers. Rodolphe Clérac, F. Albert Cotton, Lee M. Daniels, Kim R. Dunbar, Carlos A. Murillo and Xiaoping Wang *Inorg. Chem.* **2001**, *40*, 1256-1264.

127. Crystal structure and magnetic behavior of the $Cu_3(O_2C_{16}H_{23})_6 \cdot 1.2\ C_6H_{12}$. An unexpected structure and an example of spin frustration. Rodolphe Clérac, F. Albert Cotton, Kim R. Dunbar, Elizabeth A. Hillard, Carlos A. Murillo, Marina A. Petrukhina and Bradley W. Smucker *C.R. Acad. Sci. Paris, Chimie/Chemistry* **2001**, *4*, 315-319.

128. Metal–Metal Bonded Diruthenium(II, III) Assemblies with the Polycyano Anionic Linkers $N(CN)_2^-$, $C(CN)_3^-$, and 1,4-Dicyanamido-2,5-dimethylbenzene (DM-$Dicyd^{2-}$): Syntheses, Structures, and Magnetic Properties. Hitoshi Miyasaka, Rodolphe Clérac, Cristian S. Campos-Fernández and Kim R. Dunbar *Inorg. Chem.* **2001**, *40*, 1663-1671.

129. A Comparative Structural and Magnetic Study of Three Compounds Based on the Cluster Unit $M_4Cl_8(THF)_6$ (M = Mn, Fe, Co). H. Zhao, R. Clérac, J.-S. Sun, X. Ouyang, J. M. Clementé-Juan, C. J. Gómez-Garcia, E. Coronado and K. R. Dunbar *J. Solid State Chem.* **2001**, *159*, 281-292.

130. *$HAT(CN)_6$: a new building block for molecule-based magnetic materials. P. S. Szalay, J. R. Galán-Mascarós, R. Clérac and K. R. Dunbar *Synth. Met*. **2001**, *122*, 535-542.

131. New approaches to magnetic clusters with hexacyanometallate building blocks. Jennifer A. Smith, José-Ramón Galán-Mascarós, Rodolphe Clérac, Jui-Sui Sun, Xiang Ouyang and Kim R. Dunbar *"Proceedings of the VIIth International Conference on Molecule-based Magnets*", *Polyhedron,* San Antonio, TX Sept. 16-21, **2001**, *20*, 1727-1734.

132. New compounds with bridging dicyanamide and bis-chelating 2,2'-bipyrimidine ligands: syntheses, structural Characterization and magnetic properties of the two-dimensional materials $[Fe_2(dca)_4(bpm)]\bullet H_2O$ and $[Fe_2(dca)_4(bpm)(H_2O)_2]$. Smail Triki, Frank Thétiot, J. Galán-Mascarós, Jean Sala Pala and Kim R. Dunbar *New J. Chem.* **2001**, *25*, 954-958.

133. Preface to the Proceedings of ICMM 2000. Kim R. Dunbar *Polyhedron* **2001**, *20*, XXVII-XXVIII.

134. Preface for the Special Issue on New Horizons for Magnetic Solids Based on Molecules: From High $-T_c$ Magnets to Nanomagnets to Devices. Kim R. Dunbar *J. Solid State Chem.* **2001**, *159*, 251-252.

135. A new 'hybrid' molecular square composed of alternating multiply-bonded dinuclear and mononuclear corners. Jitendra K. Bera, Bradley W. Smucker, Richard A. Walton and Kim R. Dunbar *Chem. Comm.* **2001**, 2562-2563.

136. Reactivity Studies of Anticancer Active Dirhodium Complexes with 2-Aminothiophenol. Karn Sorasaenee, José-Ramón Galán-Mascarós and Kim R. Dunbar *Inorg. Chem.* **2002**, *41*, 433-436.

Publications (continued)

137. Homologous Series of Redox-Active, Dinuclear Cations $[M_2(O_2CCH_3)_2(pynp)_2]^{2+}$ (M = Mo, Ru, Rh) with the Bridging Ligand 2-(2-Pyridyl)-1,8-naphthyridine (pynp). Cristian Saul Campos-Fernández, Lisa M. Thomson, José-Ramón Galán-Mascarós, Xiang Ouyang and Kim R. Dunbar *Inorg. Chem.* **2002**, *41*, 1523-1533.

138. Unusual Magnetic Behavior in the Layered Ferromagnet $[Ni(C_6H_{14}N_2)_2]_3[Fe(CN)_6]_2 \bullet 2H_2O$. Frederic Bellouard, Miguel Clemente-León, Eugenio Coronado, José-Ramón Galán-Mascarós, Carlos J. Gómez-García, Francisco Romero and Kim R. Dunbar *Eur. J. Inorg. Chem.* **2002**, 1603-1606.

139. Synthesis, structure and magnetic properties of the one-dimensional chain compound $\{K[Fe(1,3,5\text{-triazine-2,4,6-tricarboxylate})(H_2O)_2]\}_\infty$. José-Ramón Galán-Mascarós, Juan-Modesto Clemente-Juan and Kim R. Dunbar *J. Chem. Soc., Dalton Trans.* **2002**, 2710-2713.

140. *Convenient Route to Salts of the (μ-oxo)bis[Trichloroferrate(III)]Dianion, $[FeOCl_6]^{2-}$. Kim R. Dunbar, John J. Longridge, Jeremy M. Rawson and Jui-Sui Sun *Inorg. Synth.* **2002**, *33*, 75-83.

141. *Homoleptic Transition Metal Acetonitrile Cations with Tetrafluoroborate or Trifluoromethane-sulfonate Anions. Robert A. Heintz, Jennifer A. Smith, Paul S. Szalay, Amy Weisgerber and Kim R. Dunbar *Inorg. Synth.* **2002**, *33*, 103-107.

142. A Study of Structural and Bonding Variations in the Homologous Series $[Mo_2(CN)_6(dppm)_2]^{n-}$ (n = 2, 1 and 0). Jitendra K. Bera, Paul S. Szalay and Kim R. Dunbar *Inorg. Chem.* **2002**, *41*, 3429-3436.

143. *Reactivity Studies of 2,3,5,6-Tetra(2-pyridyl) pyrazine (tppz) with First-Row Transition Metal Ions. Cristian S. Campos-Fernández, Bradley W. Smucker, Rodolphe Clérac and Kim R. Dunbar *Israel J. Chem.* **2002**, *41*, 207-218.

144. Oligonucleotide analysis with MALDI-ion-mobility-TOFMS. John M. Koomen, Brandon T. Ruotolo, Kent J. Gillig, John A. McLean, David H. Russell, Mijeong Kang, Kim R. Dunbar, Katrin Fuhrer, Marc Gonin and J. Albert Schultz *Anal. Bioanal. Chem.* **2002**, *373*, 612-617.

145. Coupling dirhodium units through terpyridine bridges: synthesis and structure of a novel molecular rectangle. Jitendra K. Bera, Cristian S. Campos-Fernández, Rodolphe Clérac and Kim R. Dunbar *Chem. Comm.* **2002**, 2536-2537.

146. Facile Conversion of the Face-Centered Cubic Prussian-Blue Material $K_2[Mn_2(CN)_6]$ into the Spinel Oxide Mn_3O_4 at the Solid/Water Interface. Aurélie Buckelew, José-Ramón Galán-Mascarós and Kim R. Dunbar *Adv. Mater.* **2002**, *14*, 1646-1648.

147. *Chain Compounds Based on Transition Metal Backbones: New Life For an Old Topic. Jitendra Bera and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2002**, *41*, 4453-4457.

148. Structural diversity of cyanide-bridged bimetallic clusters based on hexacyanometallate building blocks. Curtis P. Berlinguette, Jennifer A. Smith, José-Ramón Galán-Mascarós and Kim R. Dunbar *C. R. Chimie* **2002**, *5*, 665-672.

Publications (continued)

149. Future directions in solid state chemistry: report of the NSF-sponsored workshop. Robert J. Cava, Francis J. DiSalvo, Louis E. Brus, Kim R. Dunbar, Christopher B. Gorman, Sossina M. Haile, Leonard V. Interrante, Janice L. Musfeldt, Alexandra Navrotsky, Ralph G. Nuzzo, Warren E. Pickett, Angus P. Wilkinson, Channing Ahn, James W. Allen, Peter C. Burns, Gerdrand Ceder, Christopher E.D. Chidsey, William Clegg, Eugenio Coronado, Hongjie Dai, Michael W. Deem, Bruce S. Dunn, Giulia Galli, Allan J. Jacobson, Mercouri Kanatzidis, Wenbin Lin, Arumugam Manthiram, Milan Mrksich, David J. Norris, Arthur J. Nozik, Xiaogang Peng, Claudia Rawn, Debra Rolison, David J. Singh, Brian H. Toby, Sara Tolbert, Ulrich B. Wiesner, Patrick M. Woodward and Peidong Yang *Progress in Solid State Chemistry* **2002**, *30*, 1-101.

150. Deuterium isotope effects and fractionation factors of hydrogen-bonded A:T base pairs of DNA. Ioannis Vakonakis, Miguel Salazar, Mijeong Kang, Kim R. Dunbar and Andy C. LiWang *J. of Biomolecular NMR* **2003**, *25*, 105-112.

151. Synthesis, X-ray Studies and Magnetic Properties of Dinuclear Ni^{II} and Cu^{II} Complexes Bridged by the Azo-2,2′-bipyridine Ligand. Cristian S. Campos-Fernández, José-Ramón Galán-Mascarós, Bradley W. Smucker and Kim R. Dunbar *Eur. J. Inorg. Chem.* **2003**, 988-994.

152. A Rare-Earth Metal TCNQ Magnet: Synthesis, Structure, and Magnetic Properties of $\{[Gd_2(TCNQ)_5(H_2O)_9][Gd(TCNQ)_4(H_2O)_3]\}\cdot 4H_2O$. Hanhua Zhao, Mervin J. Bazile, Jr., José-Ramón Galán-Mascarós and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2003**, *42*, 1015-1018.

153. Isolation of the Novel Dirhodium (II/II) Thiolate Compound $Rh_2(\eta^1\text{-}C_6H_5S)_2(\mu\text{-}C_6H_5S)_2(bpy)_2$. Karn Sorasaenee, José-Ramón Galán-Mascarós and Kim R. Dunbar *Inorg. Chem.* **2003**, *42*, 661-663.

154. Inhibition of Transcription in Vitro by Anticancer Active Dirhodium(II) Complexes. Karn Sorasaenee, Patty K.-L. Fu, Alfredo M. Angeles-Boza, Kim R. Dunbar and Claudia Turro *Inorg. Chem.* **2003**, *42*, 1267-1271.

155. A Trigonal-Bipyramidal Cyanide Cluster with Single-Molecule-Magnet Behavior: Synthesis, Structure, and Magnetic Properties of $\{[Mn^{II}(tmphen)_2]_3[Mn^{III}(CN)_6]_2\}$. Curtis P. Berlinguette, Derek Vaughn, Cristina Cañada-Vilalta, José-Ramón Galán-Mascarós and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2003**, *42*, 1523-1526.

156. A Self-Assembled 2D Molecule-Based Magnet: The Honeycomb Layered Material $\{Co_3Cl_4(H_2O)_2[Co(Hbbiz)_3]_2\}$. José-Ramón Galán-Mascarós and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2003**, *42*, 2289-2293.

157. Glassy Magnets Composed of Metals Coordinated to 7,7,8,8-tetracyanoquinodimethane: $M(TCNQ)_2$ (M = Mn, Fe, Co, Ni). Rodolphe Clérac, Shannon O'Kane, Jerry Cowen, Xiang Ouyang, Robert Heintz, Hanhua Zhao, Mervin J. Bazile, Jr. and Kim R. Dunbar *Chem. Mater.* **2003**, *15*, 1840-1850.

158. Recognition of Topological Isomerism: Synthesis, Structure, and Magnetic Properties of Two Pentanuclear High-Spin Molecules of the Type $[Ni^{II}(N\text{-}N)_2]_3[Fe^{III}(CN)_6]_2$. Curtis P. Berlinguette, José-Ramón Galán-Mascarós and Kim R. Dunbar *Inorg. Chem.* **2003**, *42*, 3416-3422.

159. Structural, electronic and magnetic properties of metal-metal bonded dinuclear rhenium complexes bridged by organocyanide acceptor ligands. Stuart L. Bartley, Mervin J. Bazile, Jr., Rodolphe Clérac, Hanhua Zhao, Xiang Ouyang and Kim R. Dunbar *Dalton Trans.* **2003**, 2937-2944.

Publications (continued)

160. Magnetic properties of complex d^1 and d^5 ions: crystal field model and Jahn-Teller effect. Kim R. Dunbar, Eric J. Schelter, Boris S. Tsukerblat, Sergei M. Ostrovsky, Vadim Yu. Mirovitsky and Andrew V. Palii *Polyhedron* **2003**, *22*, 2545-2556.

161. Structural, Magnetic, and Optoelectronic Properties of (Diimine)(dithiolato)platinum(II) and -palladium(II) Complexes and Their Charge-Transfer Adducts with Nitrile Acceptors. Bradley W. Smucker, Joshua M. Hudson, Mohammad A. Omary and Kim R. Dunbar *Inorg. Chem.* **2003**, *42*, 4714-4723.

162. Unprecedented Head-to-Head Conformers of d(GpG) Bound to the Antitumor Active Compound Tetrakis (μ-carboxylato)dirhodium(II,II). Helen T. Chifotides, Karl M. Koshlap, Lisa M. Pérez and Kim R. Dunbar *J. Am. Chem. Soc.* **2003**, *125*, 10703-10713.

163. Novel Binding Interactions of the DNA Fragment d(pGpG) Cross-Linked by the Antitumor Active Compound Tetrakis (μ-carboxylato)dirhodium(II,II). Helen T. Chifotides, Karl M. Koshlap, Lisa M. Pérez and Kim R. Dunbar *J. Am. Chem. Soc.* **2003**, *125*, 10714-10724.

164. New Paramagnetic Re(II) Compounds with Nitrile and Cyanide Ligands Prepared by Homolytic Scission of Dirhenium Complexes. Eric J. Schelter, Jitendra K. Bera, John Bacsa, José-Ramón Galán-Mascarós and Kim R. Dunbar *Inorg. Chem.* **2003**, *42*, 4256-4258.

165. Hydrogen-bonding as a tool for building one-dimensional structures based on dimetal building blocks. Jitendra K. Bera, Thanh-Trang Vo, Richard A. Walton and Kim R. Dunbar *Polyhedron* **2003**, *22*, 3009-3014.

166. Structural evidence for monodentate binding of guanine to the dirhodium(II,II) core in a manner akin to that of cisplatin. Helen T. Chifotides, Jennifer S. Hess, Alfredo M. Angeles-Boza, José-Ramón Galán-Mascarós, Karn Sorasaenee and Kim R. Dunbar *Dalton Trans.* **2003**, 4426-4430.

167. Magnetic Properties of a Low-Symmetry d^5 Complex-Adiabatic Pseudo Jahn-Teller Problem. Kim R. Dunbar, Eric J. Schelter, Boris S. Tsukerblat, Andrei V. Palii, Sergei M. Ostrovsky, Vadim Yu. Mirovitskii, Sophia I. Klokishner *Adv. Quantum Chem.* **2003**, *44*, 414-428.

168. Two new soluble iron-oxo complexes: $[Fe_2(\mu\text{-}O)(\mu\text{-}O_2CCF_3)_2(O_2CCF_3)_2(C_{10}H_8N_2)_2]$ and $[Fe_4(\mu_3\text{-}O)_2(\mu\text{-}O_2CCF_3)_6(O_2CCF_3)_2(C_{10}H_8N_2)_2]\bullet CF_3CO_2H$. John Bacsa, Hanhua Zhao and Kim R. Dunbar *Acta Cryst.* **2003**, *C59*, m561-m564.

169. Synthesis, Characterization, and Physical Properties of Two Trinuclear, Mixed-Valence Species of Type $[\mu_3\text{-}OMn^{II}Mn_2^{III}(O_2CCF_3)_6(R)_3]$ (R = H_2O, CH_3COOH). Hanhua Zhao, Curtis P. Berlinguette, John Bacsa, Shane E. Tichy and Kim R. Dunbar *J. Cluster Science* **2003**, *14*, 235-252.

170. *Unusual Magnetic Behavior of Six-Coordinate, Mixed-Ligand Re(II) Complexes: Origin of a Strong Temperature-Independent Paramagnetism. Kim R. Dunbar, Eric J. Schelter, Andrei V. Palii, Sergei M. Ostrovsky, Vadim Yu. Mirovitskii, Joshua M. Hudson, Mohammad A. Omary, Sophia I. Klokishner and Boris S. Tsukerblat *J. Phys. Chem. A* **2003**, *107*, 11102-11111.

171. Dirhodium Formamidinate Compounds with Bidentate Nitrogen Chelating Ligands. Helen T. Chifotides, Kemal V. Catalan and Kim R. Dunbar *Inorg. Chem.* **2003**, *42*, 8739-8747.

172. Magnetic Property Studies of Manganese-Phosphate Complexes. C. V. Krishnamohan Sharma, Charles C. Chusuei, Rodolphe Clérac, Teresia Moller, Kim R. Dunbar and Abraham Clearfield *Inorg. Chem.* **2003**, *42*, 8300-8308.

Publications (continued)

173. Heterometallic Molecular Squares and Polymers Based On Self-Assembly Reactions of Multiply Bonded Dirhenium Complexes. Jitendra K. Bera, John Bacsa, Bradley W. Smucker and Kim R. Dunbar *Eur. J. Inorg. Chem.* **2004**, 368-375.

174. Effect of Equatorial Ligands of Dirhodium(II,II) Complexes on the Efficiency and Mechanism of Transcription Inhibition *in Vitro*. Helen T. Chifotides, Patty K.-L. Fu, Kim R. Dunbar and Claudia Turro *Inorg. Chem.* **2004**, *43*, 1175-1183.

175. Structural Characterization, Magnetic Properties, and Electrospray Mass Spectrometry of Two Jahn-Teller Isomers of the Single-Molecule Magnet $[Mn_{12}O_{12}(CF_3Coo)_{16}(H_2O)_4]$. Hanhua Zhao, Curtis P. Berlinguette, John Bacsa, Andrey V. Prosvirin, Jitendra K. Bera, Shane E. Tichy, Eric J. Schelter and Kim R. Dunbar *Inorg. Chem.* **2004**, *43*, 1359-1369.

176. Direct DNA Photocleavage by a New Intercalating Dirhodium(II/II) Complex: Comparison to $Rh_2(\mu\text{-}O_2CCH_3)_4$. Patricia M. Bradley, Alfredo M. Angeles-Boza, Kim R. Dunbar and Claudia Turro *Inorg. Chem.* **2004**, *43*, 2450-2452.

177. New Types of Layered and Pillared Layered Metal Carboxylate-Phosphonates Based on the 4,4′-Bipyridine Ligand. Jun-Ling Song, Han-Hua Zhao, Jiang-Gao Mao and Kim R. Dunbar *Chem. Mater.* **2004**, *16*, 1884-1880.

178. Tetrakis(2,2′-bipyridine)tetra-μ_3-hydroxo-di-μ-tri-fluoroacetato-tetracobalt(II) diiodide diacetonitrile monohydrate: a compound containing a tetranuclear 'cubane'-type cobalt(II) core. Hanhua Zhao, John Bacsa and Kim R. Dunbar *Acta Cryst.* **2004**, *E60*, m637-m640.

179. A Charge-Transfer-Induced Spin Transition in the Discrete Cyanide-Bridged Complex $\{[Co(tmphen)_2]_3[Fe(CN)_6]_2\}$. Curtis P. Berlinguette, Alina Dragulescu-Andrasi, Andreas Sieber, José-Ramón Galán-Mascarós, Hans-Ulrich Güdel, Catalina Achim and Kim R. Dunbar *J. Am. Chem. Soc.* **2004**, *126*, 6222-6223.

180. Electrochemical, Spectroscopic, and Structural Evidence for the Mild Hydrolysis of Tetracyanoethylene, TCNE, To Form the 2,3,3-Tricyanoacrylamidate Ligand: Isolation of an Unexpected Quadruply-Bonded Polymeric Material $[Mo_2(O_2CCMe_3)_3((NC)_2CC(CN)CONH)]\infty$. Françoise Conan, Benoît Le Gall, Jean-Michel Kerbaol, Sylvie Le Stang, Jean Sala-Pala, Yves Le Mest, John Bacsa, Xiang Ouyang, Kim R. Dunbar and Charles F. Campana *Inorg. Chem.* **2004**, *43*, 3673-3681.

181. *A two-dimensional magnetic architecture with bridging polynitrile and 2,2′-bipyrimidine ligands. J-R. Galán-Mascarós, F. Thétiot, S. Triki, J. Sala Pala and K. R. Dunbar *J. Phys. IV France* **2004**, *114*, 625-626.

182. 1,3-Dithiolan-2-one. Eric Reinheimer, John Bacsa and Kim R. Dunbar *Acta Cryst. Section E*, **2004**, *E60*, o1206-o1207.

183. Bis(pyridine-2-ylmethanolato-κ^2 *N,O*) bis(trifluoroacetato)nickel(II). John Bacsa, Hanhua Zhao and Kim R. Dunbar *Acta Cryst.* **2004**, *E60*, m1040-m1042.

184. Syntheses, Structure, and Magnetic Properties of New Types of Cu(II), Co(II), and Mn(II) Organophosphonate Materials: Three-Dimensional Frameworks and a One-Dimensional Chain Motif. Deyuan Kong, Yang Li, Xiang Ouyang, Andrey V. Prosvirin, Hanhua Zhao, Joseph H. Ross, Jr., Kim R. Dunbar and Abraham Clearfield *Chem. Mater.* **2004**, *16*, 3020-3031.

Publications (continued)

185. Unusual Magnetic Metal-Cyanide Cubes of Re^{II} with Alternating Octahedral and Tetrahedral Corners. Eric J. Schelter, Andrey V. Prosvirin, William M. Reiff and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2004**, *43*, 4912-4915.

186. Discrete Dinuclear Complexes and Two-Dimensional Architectures from Bridging Polynitrile and Bipyrimidine (bpym) Ligands: Syntheses, Structures and Magnetic Properties of $[M_2(bpym)(dcne)_4(H_2O)_2]$ (M = Mn^{II}, Co^{II}) and $[M_2(bpym)(dcne)_4(H_2O)_4]\bullet 2H_2O$ (M = Fe^{II}, Cu^{II}) ($dcne^- = [(CN)_2CC(O)Oet)]^-$). Frank Thétiot, Smail Triki, Jean Sala Pala, José-Ramón Galán-Mascarós, José M. Martínez-Agudo and Kim R. Dunbar *Eur. J. Inorg. Chem.* **2004**, 3783-3791.

187. Building Block Approaches to Nanomagnetic Materials. Kim R. Dunbar *Foundations of Nanoscience Proc.* **2004**, 171.

188. A. V. Palii, S. M. Ostrovsky, S. V. Kunitsky, S. I. Klokishner, B. S. Tsukerblat, J. R. Galán-Mascarós and K. R. Dunbar *Proc. of the Third International Conference on Mathematical Modeling and Computer Simulation of Material Technologies* **2004**, 1-16.

189. Binding of DNA Purine Sites to Dirhodium Compounds Probed by Mass Spectrometry. Helen T. Chifotides, John M. Koomen, Mijeong Kang, Shane E. Tichy, Kim R. Dunbar and David H. Russell *Inorg. Chem.* **2004**, *43*, 6177-6187.

190. Films of Mn_{12}-acetate by pulsed laser evaporation. V. Meenakshi, W. Teizer, D. G. Naugle, H. Zhao and K. R. Dunbar *Solid State Comm.* **2004**, *132*, 471-476.

191. Molecular Cube of Re^{II} and Mn^{II} That Exhibits Single-Molecule Magnetism. Eric J. Schelter, Andrey V. Prosvirin and Kim R. Dunbar *J. Am. Chem. Soc.* **2004**, *126*, 15004-15005.

192. Experimental and Computational Studies of Charge-Transfer and Reduction Products of 1,4,5,8,9,11-Hexaazatriphenylene-Hexacarbonitrile: HAT-$(CN)_6$. P. S. Szalay, J. R. Galán-Mascarós, B. L. Schottel, J. Bacsa, L. M. Pérez, A. S. Ichimura, A. Chouai and K. R. Dunbar *J. Cluster Science* **2004**, *15*, 503-530.

193. Films of Mn_{12}-acetate deposited by low-energy laser ablation. J. Means, V. Meenakshi, R. V. A. Srivastava, W. Teizer, Al. A. Kolomenskii, H. A. Schuessler, H. Zhao and K. R. Dunbar *J. Magnetism & Magnetic Mater.* **2004**, *284*, 215-219.

194. DNA Binding and Photocleavage in Vitro by New Dirhodium(II) dppz Complexes: Correlation to Cytotoxicity and Photocytotoxicity. Alfredo M. Angeles-Boza, Patricia M. Bradley, Patty K.-L. Fu, Sara E. Wicke, John Bacsa, Kim R. Dunbar and Claudia Turro *Inorg. Chem.* **2004**, *43*, 8510-8519. – 95 to date

195. Mn_{12}-acetate film pattern generated by photolithography methods. K. Kim, D. M. Seo, J. Means, V. Meenakshi, W. Teizer, H. Zhao and K. R. Dunbar *Appl. Physics Lett.* **2004**, *85*, 3872-3874.

196. Role of the Orbitally Degenerate Mn(III) Ions in the Single-Molecule Magnet Behavior of the Cyanide Cluster $\{[Mn^{II}(tmphen)_2]_3[Mn^{III}(CN)_6]_2\}$ (tmphen = 3,4,7,8-tetramethyl-1,10-phenanthroline). Andrei V. Palii, Sergei M. Ostrovsky, Sophia I. Klokishner, Boris S. Tsukerblat, Curtis P. Berlinguette, Kim R. Dunbar and José-Ramón Galán-Mascarós *J. Am. Chem. Soc.* **2004**, *126*, 16860-16867.

Publications (continued)

197. Anion dependence of Ag(I) reactions with 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine (bptz): isolation of the molecular propeller compound $[Ag_2(bptz)_3][AsF_6]_2$. Brandi L. Schottel, John Bacsa and Kim R. Dunbar *Chem. Comm.* **2005**, 46-47.

198. *catena*-Poly[[diaquacobalt(II)]-μ-oxalato]. John Bacsa, Desmond Eve and Kim R. Dunbar *Acta Cryst.* **2005**, *C61*, m58-m60.

199. Covalent Binding and Interstrand Cross-Linking of Duplex DNA by Dirhodium (II,II) Carboxylate Compounds. Shari U. Dunham, Helen T. Chifotides, Sdzymon Mikulski, Amity E. Burr and Kim R. Dunbar *Biochemistry* **2005**, *44*, 996-1003.

200. Interactions of Metal—Metal-Bonded Antitumor Active Complexes with DNA Fragments and DNA. Helen T. Chifotides and Kim R. Dunbar *Acc. Chem. Res.* **2005**, *38*, 146-156.

201. A high spin molecular square based on square pyramidal Co^{II} and tetrahedral Mn^{II} centers: $[\{Mn^{II}Cl_2\}_2\{Co^{II}(triphos)(CN)_2\}_2]$. Ferdi Karadas, Eric J. Schelter, Andrey V. Prosvirin, John Bacsa and Kim R. Dunbar *Chem. Comm.* **2005**, 1414-1416.

202. Unexpected conversion of a hexacyanometallate to a homoleptic nitrile complex with triphenylborane substituents. Eric J. Schelter, Mikhail Shatruk, Robert A. Heintz, José Ramón Galán-Mascarós and Kim R. Dunbar *Chem. Comm.* **2005**, 1417-1419.

203. New type of single chain magnet based on spin canting in an antiferromagnetically coupled Co(II) chain. Zhong-Ming Sun, Andrey V. Prosvirin, Han-Hua Zhao, Jiang-Gao Mao and Kim R. Dunbar *J. Appl. Phys.* **2005**, *97*, 10B305-1-10B305-3.

204. A Charge-Transfer-Induced Spin Transition in a Discrete Complex: The Role of Extrinsic Factors in Stabilizing Three Electronic Isomeric Forms of a Cyanide-Bridged Co/Fe Cluster. Curtis P. Berlinguette, Alina Dragulescu-Andrasi, Andreas Sieber, Hans-Ulrich Güdel, Catalina Achim and Kim R. Dunbar *J. Am. Chem. Soc.* **2005**, *207*, 6766-6779.

205. The step-wise assembly of an undecanuclear heterotrimetallic cyanide cluster. Curtis P. Berlinguette and Kim R. Dunbar *Chem. Comm.* **2005**, 2451-2453.

206. Structural and magnetic properties of iron(II) complexes with 1,4,5,8,9,12-hexaazatriphenylene (HAT). Mikhail Shatruk, Abdellatif Chouai, Andrey V. Prosvirin and Kim R. Dunbar *Dalton Trans.* **2005**, 1897-1902.

207. Manganese(II) chemistry of a New N_3O-donor chelate ligand: synthesis, X-ray structures, and magnetic properties of solvent- and oxalate-bound complexes. Amy L. Fuller, Rex W. Watkins, Kim R. Dunbar, Andrey V. Prosvirin, Atta M. Arif and Lisa M. Berreau *Dalton Trans.* **2005**, 1891-1896.

208. Control of the Barrier in Cyanide Based Single Molecule Magnets $Mn(III)_2Mn(II)_3$: Theoretical Analysis. Boris S. Tsukerblat, Andrew V. Palii, Sergei M. Ostrovsky, Sergei V. Kunitsky, Sophia I. Klokishner and Kim R. Dunbar *J. Chem. Theory Comput.* **2005**, *1*, 668-673.

209. Chemical Control of the DNA Light Switch: Cycling the Switch ON and OFF. Yai Liu, Abdellatif Chouai, Natalya N. Degtyareva, Daniel A. Lutterman, Kim R. Dunbar and Claudia Turro *J. Am. Chem. Soc.* **2005**, *127*, 10796-10797.

210. Ruthenium(II) Complexes of 1,12-Diazaperylene and Their Interactions with DNA. Abdellatif Chouai, Sara E. Wicke, Claudia Turro, John Bacsa, Kim R. Dunbar, Dong Wang and Randolph P. Thummel *Inorg. Chem.* **2005**, *44*, 5996-6003.

211. Anion Template Effect on the Self-Assembly and Interconversion of Metallacyclophanes. Cristian Saul Campos-Fernández, Brandi L. Schottel, Helen T. Chifotides, Jitendra K. Bera, John Bacsa, John M. Koomen, David H. Russell and Kim R. Dunbar *J. Am. Chem. Soc.* **2005**, *127*, 12909-12923.

212. Synthesis, crystal structures and magnetic properties of two new coordination polymers based on the tricyanoethenolate ligand: $\{Fe(C_5N_3O)_2(CH_3CN)_2\}_\infty$ and $\{Co(C_5N_3O)_2(C_4H_4O)_2\}_\infty$.. Hanhua Zhao, John Bacsa, Andrey Prosvirin, Nazario Lopez and Kim R. Dunbar *Polyhedron* **2005**, *24*, 1907-1912.

213. Photocytotoxicity of a New Rh_2(II,II) Complex: Increase in Cytotoxicity upon Irradiation Similar to That of PDT Agent Hematoporphyrin. Alfredo M. Angeles-Boza, Patricia M. Bradley, Patty K.-L. Fu, Mikhail Shatruk, Matthew G. Hilfiger, Kim R. Dunbar and Claudia Turro *Inorg. Chem.* **2005**, *44*, 7262-7264.

214. *Self-Assembled Inorganic Architectures. Jitendra K. Bera, John Bacsa and Kim R. Dunbar *Encyclopedia of Inorganic Chemistry*, Second Edition (Ed. R. Bruce King), John Wiley & Sons, Inc., **2005**.

215. *Rhodium Compounds, Chapter 12 In '*Multiple Bonds Between Metal Atoms*', 3rd Edition, Helen T. Chifotides and Kim R. Dunbar. Eds., F. A. Cotton, C. Murillo and R.A. Walton, Springer-Science and Business Media, Inc.: New York, **2005**, pp 465-589.

216. Hydrothermal Synthesis and Structure of a Three-Dimensional Cobalt(II) Triazolate Magnet. Wayne Ouellette, José R. Galán-Mascarós, Kim R. Dunbar and Jon Zubieta *Inorg. Chem.*, **2006**, *45*, 1909-1911.

217. Enhanced magnetic anisotropy of Mn_{12}-acetate. D.M. Seo, V. Meenakshi, W. Teizer, H. Zhao, K.R. Dunbar *J. Mag. Mag. Mat.* **2006**, *301*, 31-36.

218. Coarse-and Fine Tuning the Electronic Energies of Triimine Platinum (II) Square Planar Complexes. Wei-Hsuan Chen, Eric W. Reinheimer, Kim R. Dunbar, and Mohammad A. Omary, *Inorg. Chem*., **2006**, *45*, 2770-2773.

219. Influence of anions on the dimensionality of extended networks based on Cu^1 cations and 1,4,5,8,9,12-hexaazatriphenylene (HAT) ligands. Mikhail Shatruk, Abdellatif Chouai and Kim R. Dunbar *Dalton Trans.* **2006**, 2184-2191.

220. Highly Anisotropic Orbitally Dependent Superexchange in Cyano-Bridged Clusters Containing Mn(III) and Mn(II) Ions. Andrew Palii, Sergey M. Ostrovsky, Sophia I. Klokishner, Boris S. Tsukerblat and Kim R. Dunbar *Chem. Phys. Chem.* **2006**, *7*, 871-879.

221. Anion-π Interactions as Controlling Elements in Self-Assembly Reactions of Ag(I) Complexes with π-Acidic Aromatic Rings. Brandi L. Schottel, Helen T. Chifotides, Mikhail Shatruk, Abdellatif Chouai, Lisa M. Pérez, John Bacsa and Kim R. Dunbar *J. Am. Chem. Soc.* **2006**, *128*, 5895-5912.

222. Syntheses and reactivity studies of solvated dirhenium acetonitrile complexes. Jitendra K. Bera, Eric Schelter, Sanjib K. Patra, John Bacsa and Kim Dunbar, *Dalton Trans.* **2006**, 4011-4019.

Publications (continued)

223. Syntheses, Structural Studies, and Magnetic Properties of Divalent Cu and Co selenites with Organic Constituents. Mei-Ling Feng, Andrey V. Prosvirin, Jiang-Gao Mao and Kim R. Dunbar, *Chem. Eur. J.* **2006**, *12*, 8312-8323.

224. Head-to-Head Cross-Linked Adduct Between the Antitumor Unit Bis(,*u-N,N'* –di-p-tol) Dirhodium (II,II) and the DNA Fragment d(GpG). Helen T. Chifotides and Kim R. Dunbar, *Chem. Eur. J.* **2006**, *12*, 6458-6468.

225. Long-Range Ordered Magnet of a Charge-Transfer Ru_2^{4+}/TCNQ Two-Dimensional Network Compound. Hitoshi Miyasaka, Toru Izawa, Nao Takahashi, Masahiro Yamashita, and Kim R. Dunbar, *J. Am. Chem. Soc.,* **2006**, *128*, 11358-11359.

226. Magnetic Relaxation and Magnetic Moment of Mn_{12}-acetate film material. D.M. Seo, V. Meenakshi, W. Teizer, H. Zhao, and K.R. Dunbar. *AIP Conference Proceedings of the 24th International Conference on Low Temperature Physics***, 2006**, *850*, 1137-1138.

227. 2D NMR Spectroscopic Evidence for Unprecedented Interactions of *cis*-[Rh_2(dap)(μ-O_2CCH_3)$_2$(n^1-O_2CCH_3)(CH_3OH)](O_2CCH_3) with a DNA Oligonucleotide: Combination of Intercalative and Coordinative Binding. Mijeong Kang, Abdellatiff Chouai, Helen T. Chifotides, and Kim R. Dunbar, *Angew. Chem. Int. Ed.* **2006**, *45*, 6148-6151.

228. Solid-State Coordination Chemistry of the Cu/Triazolate/X System (X = F^-, Cl^-, Br^-, I^-, OH^-, SO_4^{2-}) Wayne Quellette, Andrey V. Prosvirin, Vincent Chieffo, Kim R. Dunbar, Bruce Hudson, and Jon Zubieta *Inorg. Chem.*, **2006**, *45*, 9346-9366.

229. A series of complexes of the phosphorus-based TTF ligand *o*-P2 with the metal ions Fe^{II}, Co^{II}, Ni^{II}, Pd^{II}, Pt^{II}, and Ag^{II}. Calvin E. Uzelmeier, Bradley W. Smucker, Eric Reinheimer, Mikhail Shatruk, Amanda W. O'Neal, Marc Fourmigué, and Kim R. Dunbar, *Dalton Trans*., **2006**, 5259-5268.

230. Dirhodium (II,II) Complexes: Molecular Characteristics that Affect in Vitro Activity. Alfredo M. Angeles-Boza, Helen T. Chifotides, J. Dafhne Aguirre, Abdellatif Chouai, Patty K.-L. Fu, Kim R. Dunbar, and Claudia Turro, *J. Med. Chem*. **2006**, *49*, 6841-6847.

231. Origin of the Single Chain Magnet Behavior of the Co(H_2L) (H_2O) Compound with a 1D Structure. Andrei V. Palii, Sergei M. Ostrovsky, Sophia I. Klokishner, Oleg S. Reu, Zhong-Ming Sun, Andrei V. Prosvirin, Han-Hua Zhao, Jiang-Gao Mao, and K.R. Dunbar, *J. Phys. Chem. A*., **2006**, *110*, 14003-14012.

232. Lanthanide-3d cyanometalate chains Ln(III)-M(III) (Ln = Pr, Nd, Sm, Eu, Gd, Tb; M = Fe) with the tridentate ligand 2,4,6-tri (2-pyridyl)-1,3,5-triazine (tptz): evidence of ferromagnetic interactions for the Sm(III)-M(III) compounds (M = Fe, Cr). Hanhua Zhao, Nazario Lopez, Andrey Prosvirin, Helen T. Chifotides and Kim R. Dunbar, *Dalton Trans*., **2007**, 878-888.

233. Self-Assembly of a High Nuclearity Chloride-Centered Copper(II) Cluster, Structure and Magnetic Properties of [Au(PPh_3)][trans-$Cu_6(CF_3)_2pz)_6(OH)_6C1$]. Ahmed A. Mohamed, Alfredo Burini, Rossana Galasi, Josè-Ramón Galán-Mascarós, Kim R. Dunbar, John P. Fackler, Jr., *Inorg. Chem*., **2007**, *46*, 2348-2349.

234. Properties of Prussian Blue Materials Manifested in Molecular Complexes: Observation of Cyanide Linkage Isomerism and Spin-Crossover Behavior in Pentanuclear Cyanide Clusters, Mikhail Shatruk, Alina Dragulescu-Andrasi, Kristen E. Chambers, Sebastian A. Stoian, Emile L. Bominaar, Catalina Achim, and Kim R. Dunbar, *J. Am. Chem. Soc.,* **2007**, 129, 6104-6116.

Publications (continued)

235. Synthesis and Characterization of four Metal-Organophosphonates with One-, Two-, and Three-Dimensional Structures. Sanjit Konar, Jerzy Zon, Andrey V. Prosvirin, Kim R. Dunbar, Abraham Clearfield, and Kim R. Dunbar, *Inorg. Chem*., **2007**, *46*, 5229-5236.

236. Systematic Investigation of Trigonal-Bipyramidal Cyanide-Bridged Clusters of the First Row Transition Metals. Mikhail Shatruk, Kristen Chambers, Andrey V. Prosvirin, Kim R. Dunbar, *Inorg. Chem*., **2007**, *46*, 5155-5165.

237. Enhanced alignment of Mn_{12}-acetate micro-crystals. D. Seo, W. Teizer, H. Zhao, and K.R. Dunbar, *J. Mag. Mag. Mat*., **2007**, *312*, 205-209.

238. A Family of Mixed Metal Cyanide Cubes with Alternating Octahedral and Tetrahedral Corners Exhibiting a Variety of Magnetic Behaviors Including Single Molecule Magnetism. Eric J. Schelter, Ferdi Karadas, Carolina Avendano, Andrey V. Prosvirin, and Kim R. Dunbar, *J. Am. Chem. Soc*., **2007**, *129*, 8139-8149.

239. Variation of heterometallic structural motifs based on $[W(CN)_8]^{3-}$ anions and Mn^{II} ions as a function of synthetic conditions. Hanhua Zhao, Mikhail Shatruk, Audrey V. Prosvirin, Kim R. Dunbar, *Chem. Eur. J.*, **2007**, *13*, 6573-6589.

240. Hydrothermal Synthesis, Structural Chemistry and Magnetic Properties of Materials of the M(II) triazolate/anion Family, where M = Mn, Fe and Ni, Wayne Ouellette, Andrey V. Prosvirin, Jaime Valeich, Kim R. Dunbar and Jon Zubieta, **2007**, *Inorg. Chem*., *46*, 9067-9082.

241. Conversion of a Porous Material Based on a Mn(II)-$TCNQF_4$ Honeycomb Net to a Molecular Magnet Upon Desolvation. Nazario Lopez, Hanhua Zhao, Andrey V. Prosvirin, Abdellatif Chouai, Mikhail Shatruk and Kim R. Dunbar, *Chem. Commun*., **2007**, *44*, 4611-4613.

242. Effect of Axial Coordination on the Electronic Structure and Biological Activity of Dirhodium(II,II) Complexes. J. Daphne Aguirre, Daniel A. Lutterman, Alfredo M. Angeles-Boza, Kim R. Dunbar, and Claudia Turro, *Inorg. Chem*., **2007**, *46*, 7494-7502.

243. Unprecedented Head-to-Head Right Handed Cross-Links Between the Antitumor Bis(μ-N,N'-di-p-tolylformamidinate) Dirhodium(II,II) Core and the Dinucleotide d(ApA) with the Adenine Bases in the Rare Imino Form. Helen T. Chifotides and Kim R. Dunbar, *J. Am. Chem. Soc*., **2007**, *129*, 12480-12490.

244. Magnetic anisotropy in the octanuclear (Re_4Mn_4)-Mn^{II} cluster exhibiting Single-Molecule Magnet behavior: Quantum-spin and classical-spin approaches. A. V. Palii, S. M. Ostrovsky, S. I. Klokishner, B.S. Tsukerblat, E. J. Schelter, A. Prosvirin and K. R. Dunbar, *Inorg. Chim. Acta*, **2007**, *360*, 3915-3924.

245. Effects of vibronic interaction in cyano-bridged clusters containing Mn(III) and Mn(II) ions. S. M. Ostrovsky, S. I. Klokishner, A. V. Palii and K. R. Dunbar, *J. Mol. Structure*, **2007**, *838*, 138-143. (Special Issue).

246. Nanopatterning of Mn-12-acetate single-molecule magnet films. K. Kim, A. Ford, V. Meenakshi, W. Teizer, H. Zhao and K. R. Dunbar, *J. Appl. Phys*., **2007**, *102*, 094306:1-5.

247. *Anion-π Interactions: A Tutorial Review. Brandi L. Schottel, Helen T. Chifotides and Kim R. Dunbar, *Chem. Soc. Rev*., **2008**, *37*, 68–83. (web release date: September 13, 2007).

Publications (continued)

248. 2D NMR Study of the DNA Duplex 5'–d(CTCTC*A*ACTTCC) Cross-Linked by the Anti-Tumor Active Dirhodium(II,II) Unit at the Cytosine-Adenine Step. Mijeong Kang, Helen Chifotides, Kim R. Dunbar, *Biochemistry*, **2008**, *47,* 2265-2276.

249. Molybdophosphonate Clusters as Building Blocks in the Oxomolybdate-Organodiphosphonate/Cobalt(II)-Organoimine System: Structural Influences of Secondary Metal Coordination Preferences and Diphosphonate Tether Lengths. N. Gabriel Armatas, Damian G. Allis, Andrew Prosvirin, Gabriel Carnutu, Charles, J. O'Connor, Kim Dunbar, and Jon Zubieta, *Inorg. Chem*., **2008***, 47*, 832-854.

250. Intercalation Is Not Required for DNA Light-Switch Behavior. D. A. Lutterman, A. Chouai, Y. Liu, Y. Sun, C. D. Stewart, K. R. Dunbar and C. Turro, *J. Am. Chem. Soc*., **2008**; *130*, 1163-1170.

251. Role of Axial Donors in the Ligand Isomerization Processes of Quadruply Bonded Dimolybdenum Complexes. M. Majumdar, S. K. Patra, M. Kannan, M, K. R. Dunbar and J. K. Bera *Inorg. Chem*., **2008**, *47*, 2212-2222.

252. A Family of Cyanide-Bridged Molecular Squares: Structural and Magnetic Properties of $[\{M^{II}Cl_2\}_2\{Co^{II}(triphos)(CN)_2\}_2]\cdot xCH_2Cl_2$, M = Mn, Fe, Co, Ni, Zn. Ferdi Karadas, Eric J. Schelter, Andrey V. Prosvirin, John Bacsa, Dmitry Smirnov, Andrew Ozarowski, J. Krzystek, Joshua Telser, and Kim R. Dunbar, **2008**, *Inorg. Chem*., *47*, 2074-208*247*.

253. A series of stable salts of the oxidized donors TTF, o-DMTTF, TMTTF, and $TTF(SCH_2CH_2CN)_4$ as starting materials for materials-based metathesis reactions. Eric W. Reinheimer, Hanhua Zhao, and Kim R. Dunbar, *Synth. Met*., **2008**, *158*, 447-452.

254. A Ladder Based on Paddlewheel Diruthenium(II,II) Rungs Connected by TCNQ Rails: A Polymorph of the Hexagonal 2-D Network Phase. N. Motokawa, T. Oyama, S. Matsunaga, H. Miyasaka, K. Sugimoto, M. Yamashita, N. Lopez and K. R. Dunbar, *Dalton Trans.,* **2008**, 4057-4180.

255. A Series of Strongly One-Dimensional Organic Metals with Strictly Uniform Stacks: (*o*-DMTTF)$_2$ (X = Cl, Br, I). Marc Fourmigué, Eric W. Reinheimer, Kim R. Dunbar, Pascale Auban-Senzier, Claude Pasquier and Claude Coulon. *Dalton Trans.,* **2008**, 4652–4658.

256. An Electron-Transfer Ferromagnet with T_c = 107 K Based on a Three- Dimensional $[Ru_2]_2$/TCNQ System. Natsuko Motokawa, Hitoshi Miyasaka, Masahiro Yamashita, and Kim R. Dunbar, *Angew Chem. Int. Ed.,* **2008**, *47*, 7760-7763.

257. Unprecedented Head-to-Head Right Handed Cross-Links of the Antitumor Bis(*μ-N,N′*-di-*p*-tolylformamidinate) Dirhodium(II,II) Core with the Dinucleotides d(GpA) and d(ApG). Helen T. Chifotides and Kim R. Dunbar, *Chem. Eur. J*., **2008**, *14*, 9902 – 9913.

258. Hexacyanoosmate(III) chemistry: Preparation and magnetic properties of a pentanuclear cluster and a Prussian blue analogue with Ni(II). Matthew Hilfiger, Michael Shatruk, Andrey Prosvirin, and Kim R. Dunbar, *Chem. Commun*., **2008**, 5752 – 5754.

259. Radical salts of TTF derivatives with the metal-metal bonded $[Re_2Cl_8]^{2-}$ anion. Eric W. Reinheimer, José R. Galán-Mascarós, Carlos J. Gómez-García, Hanhua Zhao, Marc Fourmigué, and Kim R. Dunbar, *J. Mol. Structure, Special Issue dedicated to F. A. Cotton*, **2008**, *890*, 81–89.

260. A Highly Anisotropic Cobalt (II) Based Single Chain Magnet: Exploration of Spin-Canting in an Antiferromagnetic Array. A. V. Palii, O. S. Reu, S. M. Ostrovsky, S. I. Klokshner, B. S. Tsukerblat, Jian-Gao Mao, Andrei V. Prosvirin, Han-Hua Zhao, K. R. Dunbar, *J. Am. Chem. Soc*., **2008**, *130*, 14729-14738.

Publications (continued)

261. Ultrafast Ligand Exchange: Detection of a Pentacoordinate Ru(II) Intermediate and Product Formation. Yao Liu, Tanya N. Singh, Abdelattif Chouai, David Turner, Kim R. Dunbar, Claudia Turro, *J. Am. Chem. Soc*., **2009**, *131*, 26–27.

262. After 118 Years, the Isolation of Two Common Radical Anion Reductants as Simple, Stable Solids. Thomas A. Scott, Betty A. Ooro, David J. Collins, Michael Shatruk, Andrey Yakavenko, Kim R. Dunbar, and Hong-Cai Zhou, *Chem. Commun*., **2009**, 65-67**.**

263. Supermicroporous Silica-Based SiO_2-Al_2O_3-NiO Materials: Solid-State NMR, NMR Relaxation and Magnetic Susceptibility. V. I. Bakhmutov, B. G. Shpeizer, A. V. Prosvirin, K. R. Dunbar and A. Clearfield. *Microporous & Mesoporous Materials*, **2009**, *118*, 78-86.

264. Synthesis and structure of charge transfer salts of tetrathiafulvalene (TTF) and tetramethyl-TTF with 2,4,7 trinitro 2,4,5,7- tetranitro-9-fluorenone. Eric W. Reinheimer, J. R. Galan-Mascarós, Kim R. Dunbar, *Synth. Met*. **2009**, *159*, 45-51.

265. Cyanide-Bridged Complexes of Transition Metals: A Molecular Magnetism Perspective. Mikhail Shatruk, Carolina Avendaño and Kim R. Dunbar, *Prog. Inorg. Chem*., **2009**, *56*, 155-334.

266. Electric transport properties of Mn12-acetate films measured with self-assembling tunnelling junction. Lianxi Ma, Chi Chen, Glenn Agnolet, Jiacai Nie, Hanhua Zhao, Kim R Dunbar. *J. Phys. D: Appl. Phys*., **2009**, *42*, 095104.

267. Preface for the Forum on Molecular Magnetism: The Role of Inorganic Chemistry. Eugenio Coronado, and Kim R. Dunbar, *Inorg. Chem.*, **2009**, *48*, 3293-3295.

268. Pentanuclear Trigonal-Bipyramidal Cyanide Complexes: A Powerful Platform for the Systematic Assessment of the Magnetic Properties of Cyanide-Bridged Compounds. Kristen E. Funck, Matthew G. Hilfiger, Curtis P. Berlinguette, Michael Shatruk, and Kim R. Dunbar, *Forum issue on Molecular Magnetism, Inorg. Chem*., **2009**, *48*, 3438-3452.

269. Redox-Regulated Inhibition of T7 RNA Polymerase via Establishment of Disulfide Linkages by Substituted Dppz Dirhodium(II,II) Complexes. Authors: J. Dafhne Aguirre, Helen T. Chifotides, Alfredo M. Angeles-Boza, Abdellatif Chouai, Claudia Turro, Kim R. Dunbar, *Inorg. Chem.,* **2009**, *48*, 4435-4444.

270. Water-Free Lanthanide-Prussian Blue Type Analogs: Synthesis, Structure, Computational Analysis and Magnetic Data of $\{Ln^{III}(DMF)_6Fe^{III}(CN)_6\}_\infty$ (Ln = Lanthanides excluding Pm). Duane C. Wilson, Shengming Liu, Xuenian Chen, Edward A. Meyers, Xiaoguang Bao, Andrey V. Prosvirin, Kim R. Dunbar,' Christopher M. Hadad, and Sheldon G. Shore, *Inorg. Chem*., **2009**, 48, 5725-5735.

271. Highly anisotropic exchange interactions in a trigonal bipyramidal cyanide bridged $Os^{III}_2Ni^{II}_3$ cluster. Andrei V. Palii, Oleg S. Reu, Sergei M. Ostrovsky, Sophia I. Klokshner, Boris S. Tsukerblat, Matthew Hilfiger, Michael Shatruk, Andrey Prosvirin, Kim R. Dunbar, *J. Phys. Chem. A*., **2009**, 113, 6886-6890.

272. Magnetic molecules based on M(V) (M= Mo,W) and Ni(II) ions: a new class of trigonal bipyramidal cluster and confirmation of SMM behavior for the pentadecanuclear molecule $\{Ni^{II}[Ni^{II}(tmphen)(MeOH)]_6[Ni(H_2O)]_2[\mu\text{-}CN]_{30}[W^V(CN)_3]_6\}$. Matthew G. Hilfiger, Hanhua Zhao, Andrey Prosvirin, Wolfgang Wernsdorfer, Kim R. Dunbar, *Dalton Trans*., **2009**, 5155-5163.

273. A Thermally and Hydrolytically Stable Microporous Framework Exhibiting Single Chain Magnetism. Structure and Properties of $[Co_2(H_{0.67}bdt_3]\bullet 20H_2O$ (H_2bdt = 1,4-benzene-5,5′-bistetrazole). Wayne Ouellette, Andrey V. Prosvirin, Kelly Whitenack, Kim R. Dunbar and Jon Zubieta, *Angew. Chem. Int. Ed.,* **2009**, *48*, 2140-2143.

Publications (continued)

274. Cell Cytotoxicity Studies of Dirhodium(II,II) Complexes: Documentation of Antitumor Active Dirhodium Compounds Interactions with Nuclear DNA. J. Dafhne Aguirre, Alfredo M. Angeles-Boza, Abdellatif Chouai, Jean-Phillipe Pellois, Claudia Turro, and Kim R. Dunbar, *J. Am. Chem. Soc*., **2009**, 131, 11353-11360.

275. Hydrogen bonding and sulfur-sulfur interactions in the crystal structure of the radical-cation salt $(BPDT\text{-}TTF)_2[W_6O_{19}]$. Eric W. Reinheimer, Marc Fourmigué, and Kim R. Dunbar, *J. Chem. Cryst*., **2009**, 723-729.

276. Crystal Structure of the radical-cation salt (o-$Me_2TTF)I_3$ with close Intermolecule Sulfar Contacts. Eric W. Reinheimer, Marc Fourmigué, and Kim R. Dunbar, *J. Chem. Cryst*., **2009**, *39*, 735-739.

277. Heterospin Single-Molecule Magnets Based on Terbium Ions and $TCNQF_4$ Radicals: Interplay Between Single-Molecule Magnet and Phonon Bottleneck Phenomena Investigated by Dilution Studies. Nazario Lopez, Andrey V. Prosvirin, Hanhua Zhao, Wolfgang Wernsdorfer and Kim R. Dunbar, *Chem. Eur. J*., **2009**, *15*, 11390-11400.

278. Charge-transfer two-dimensional layers constructed from a 2:1 assembly of paddlewheel diruthenium(II, II) complexes and bis[1,2,5]dithiazolotetracyanoquinodimethane: Bulk magnetic behavior as a function of inter-layer interactions. Natsuko Motokawa, Tomomi Oyama, Satoshi Matsunaga, Hitoshi Miyasaka, Masahiro Yamashita and Kim R. Dunbar, *Crystal Engineering - Special Issue on Molecular Magnetism*, **2009**, *11*, 2121-2130.

279. On ^{29}Si NMR Relaxation as a Structural Criterion for Studying Paramagnetic Supermicroporous Silica-Based Materials: Silica-Based Materials incorporating Mn^{2+} Ions into the Silica matrix of SiO_2-Al_2O_3-MnO. Vladimir I. Bakhmutov, Boris G. Shpeizer, Andrey V. Prosvirin, Kim R. Dunbar, Abraham Clearfield, *Solid State Nuclear Mag. Res*., **2009**, *36*, 129-136.

280. Anticancer Activity of Heteroleptic Diimine Complexes of Dirhodium: A Study of Intercalating Properties, Hydrophobicity and *in cellulo* Activity. Dafhne Aguirre, Alfredo M. Angeles-Boza, Abdellatif Chouai, Claudia Turro, Jean-Philippe Pellois and Kim R. Dunbar, submitted to *Special issue Dalton Transactions on the Chemistry of Metal-Containing Anticancer Compounds Ed, Dr. J. Humphrey;Guest Editor: Prof. P. J. Sadler.,* **2009**, 10806-10812.

281. Cyanide Lability and Linkage Isomerism of Hexacyanochromate(III) Induced by the Co(II) ion. Carolina Avendano, Ferdi Karadas, Matthew Hilfiger, Michael Shatruk, and Kim R. Dunbar, *Inorg. Chem*., **2010**, *49*, 583–594.

282. An Unprecedented Charge Transfer Coupled Spin Transition in a Cluster with Fe(II) and Os(III) Centers. Matthew G. Hilfiger, Meimei Chen, Tatiana V. Brinzari, Tanya M. Nocera, Doros T. Petasis, Janice L. Musfeldt, Catalina Achim, Kim R. Dunbar, *Angew. Chem*. *Int. Ed.,* **2010**, *49*, 1410-1413.

283. Unprecedented Binary Semiconductors Based on TCNQ: Single Crystal X-ray Studies and Physical Properties of $Cu(TCNQX_2)$ X = Cl, Br. Nazario Lopez, Hanhua Zhao, Akira Ota, Andrey V. Prosvirin, Eric Reinheimer and Kim R. Dunbar, *Adv. Mater.,* **2010**, *22*, 986–989.

284. A Homologous Heterospin Series of Mononuclear Lanthanide/$TCNQF_4$ Organic Radical Complexes. Nazario Lopez, Hanhua Zhao, Andrey V. Prosvirin, Wolfgang Wernsdorfer and Kim R. Dunbar, *Dalton Trans*., **2010**, *39*, 4341-4352.

285. Control of Charge-Transfer in a Series of $Ru_2^{II,II}$/TCNQ Two-Dimensional Networks by Tuning Electron-Affinity of TCNQ Units: A Route to Synergistic Magnetic/Conducting Materials. Hitoshi Miyasaka, Natsuko Motokawa, Satoshi Matsunaga, Masahiro Yamashita, Kunihisa Sugimoto, Tatsuya Mori, Naoki Toyota, and Kim R. Dunbar, *J. Am. Chem. Soc*., **2010**, *132*, 1532-1544.

286. Transition Metal – Alumina/Silica supermicroporous composites with tunable porosity. Boris G. Shpeizer, Vladimir I. Bakhmoutov, Paul Zhang, Andrey V. Prosvirin, Kim R. Dunbar, Matthias Thommes, Abraham Clearfield, *Colloids Surf. A: Physicochem. Eng. Aspects*, **2010**, *357*, 105-115.

287. Use of a Rhenium Cyanide Nanomagnet as a Building Block for New Clusters and Extended Networks. Ferdi Karadas, Carolina Avendaǹo, Andrey V. Prosvirin, and Kim R. Dunbar, *Dalton Trans*., **2010**, *39*, 4986-4977.

288. Cyanide-Bridged $Co^{II}_2M^{II}$ and $Co^{II}_2M^{II}_2$ Complexes Based on the Co^{II}(triphos)$(CN)_2$ Building-Block: Syntheses, Structures, Magnetic Properties and Density Functional Theoretical Studies. Ferdi Karadas, Michael Shatruk, Lisa M. Perez, and Kim R. Dunbar, *Chem. Eur. J*., **2010**, *16*, 7164-7173.

289. Trigonal Bipyramidal Magnetic Molecules Based on $[Mo^{III}(CN)_6]^{3-}$. Xin-Yi Wang, Matthew Hilfiger, Andrey Prosvirin, and Kim R. Dunbar, *Chem. Commun*., **2010**, *46*, 4484-4486.

290. A Docosanuclear Mo_8Mn_{14} Cluster Based on $[Mo(CN)_7]^{4-}$. Xin-Yi Wang, Andrey V. Prosvirin, and Kim R Dunbar, *Angew. Chem. Int. Ed.,* **2010**, *49*, 5081-5084 (featured on the cover).

291. Photophysical Properties, DNA Photocleavage, and Photocytotoxicity of a Series of Dppn Dirhodium(II,II) Complexes. Lauren E. Joyce, J. Dafhne Aguirre, Alfredo M. Angeles-Boza, Abdellatif Chouai, Patty K.-L. Fu, Kim R. Dunbar, and Claudia Turro, *Inorg. Chem*., **2010**, *49*, 5371-5376 (featured on the cover)

292. Reversible Magnetism between an Antiferromagnet and a Ferromagnet Related to Solvation/Desolvation in a Robust Layered $[Ru_2]_2$TCNQ Charge-Transfer System. Natsuko Motokawa, Satoshi Matsunaga, Shinya Takaishi, Hitoshi Miyasaka, Masahiro Yamashita, and Kim R. Dunbar, *J. Am. Chem. Soc*., **2010**, *132*, 11943-11951.

293. Author Profile, K. R. Dunbar, *Angew. Chem*. *Int. Ed*., **2010**, *49*, 5408-5409.

294. Temperature and Light Induced Bistability in a $Co_3[Os(CN)_6]_2$ Prussian Blue Analog. Carolina Avendano, Matthew G. Hilfiger, Andrey Prosvirin, Codi Sanders, Darryl Stepien, Kim R. Dunbar, *J. Am. Chem Soc*., **2010**, *132*, 13123–13125.

295. The π-Accepting Arene $HAT(CN)_6$ as a Halide Receptor through Charge Transfer: Multisite Anion Interactions and Self-Assembly in Solution and the Solid State. Helen Chifotides, Brandi Schottel and Kim R. Dunbar, *Angew. Chem*. *Int. Ed.,* **2010**, *49*, 7202-7207. (featured as a frontispiece cover for the Comunications).

296. Tetranuclear, Oxygen Centered Copper(II) Clusters Linked Together with Guanidine-Guanidinate Ligands Gina M. Chiarella. Doris Y. Melgarejo, Andrey V. Prosvirin, Kim R. Dunbar, John P. Fackler Jr, *J. Clust. Sci.* **2010**, *21*, 551–565.

297. Structural Studies of the 1:1 Complex of o-3,4-Dimethyltetrathiafulvalene (o-Me_2TTF) and 1,2,4,5-tetracyanobenzene (TCNB). Eric Reinheimer, Hanhua Zhao, and Kim R. Dunbar. *J. Chem. Cryst*. **2010**, *40*, 514-519.

298. Light-Induced Charge Transfer and LIESST Effect in Pentanuclear Cyanide-Bridged Clusters. Kristen E. Funck, Andrey Prosvirin, Corine Mathonière, Rodolphe Clérac, Etienne Harté, Marguerite Kalisz, and Kim R. Dunbar, *Inorg. Chem*., **2011**, *50*, 2782-2789.

299. Molecular Magnetic Materials Based on 4d and 5d Transition Metals. Xin-Yi Wang, Carolina Avendano and Kim R Dunbar, *Chem. Sov. Rev*. (invited critical review), **2011,** *40*, 3213-3238**.**

300. Beyond the spin model: Exchange coupling in molecular magnets with unquenched orbital angular momenta. Andrei Palii, Boris Tsukerblat, Sophia Klokishner, Kim R. Dunbar, Juan Modesto Clemente-Juan, Eugenio Coronado, *Chem. Sov. Rev*., (invited critical review, featured on the cover), **2011**, *40*, 3130–3156.

Publications (continued)

301. Dramatically Different Conductivity Properties of Metal–Organic Framework Polymorphs of Tl(TCNQ): An Unexpected Room-Temperature Crystal-to-Crystal Phase Transition. Zhang, Z.; Avendano, C.; Dunbar, K. R. *Angew. Chem. Int. Ed.,* **2011**, 50, 6543-6547.

302. Layered, Two-Dimensional Hydrogen Bonding Nets in the Structure of the 1:1 Encounter Complex TMTTF-TCNB: Combined Structural and Spectroscopic Study. Eric W. Reinheimer, Maria Fernandez Ballesteros Rivas, Hanhua Zhao and Kim R. Dunbar, *J. Chem. Crystallogr.,* **2011**, *41*, 936-943.

303. Highly Conducting Coordination Polymers Based on Infinite M(4,4'-bpy) Chains Flanked by Regular Stacks of Non-Integer TCNQ Radicals. Akira Ota, Maria Ballesteros Rivas, Eric Reinheimer, Andrey Prosvirin, Kim R. Dunbar, *Angew. Chem. Int. Ed.,* **2011**, *123*, 9877-9881. (Hot paper).

304. Vibronic model for Cooperative Spin-Crossover in Pentanuclear $\{[M^{III}(CN)_6]_2[M'^{II}(tmphen)_2]_3\}$ (M/M' = Co/Fe, Fe/Fe) Compounds. Sergei. Ostrovsky, Andrei Palii, Sophia Klokishner, Michael Shatruk, Kristen E. Funck, Kim R. Dunbar, Boris, Tsukerblat, *J. Phys. Chem.C.,* **2011***, 115*, 21666–21677.

305. $[Ru(bpy)_2(5\text{-cyanouracil})_2]^{2+}$ as a Potential Light-Activated Dual-Action PDT Agent. Robert N. Garner, Galluccio, J., Kim R. Dunbar, and Claudia Turro, *Inorg. Chem.*, **2011**, *19*, 9213–9215.

306. Syntheses, Structural Characterization and Properties of Transition Metal Complexes of 5,5′-(1,4-phenylene)bis(1*H*-tetrazole) (H_2bdt) and 5,5′,5′′-(1,3,5-phenylene)tris(1*H*-tetrazole) (H_3btt). Wayne Ouellette, Kari Darling, Andrey Prosvirin, Kelly Whitenack, Kim R. Dunbar, Jon Zubieta, *Dalton Trans*., **2011**, *40*, 12288–12300. (*"Dalton Transactions themed issue entitled: Self-Assembly in Inorganic Chemistry").*

307. Anion-Templated Self-Assembly of Highly Stable Fe(II) Pentagonal Metallacycles with Short Anion-p Contacts. Ian D. Giles, Helen T. Chifotides, Michael Shatruk and Kim R. Dunbar**,** *Chem. Commun*., **2011**, *47*, 12604–12606.

308. Insight into the Reaction Pathway of DNA Model Chelates with Photoactivated *cis*-$[Rh_2(m\text{-}O_2CCH_3)_2(CH_3CN)_6]^{2+}$. Helen T. Chifotides, Daniel A. Lutterman, Kim R. Dunbar and Claudia Turro, *Inorg. Chem.*, **2011**, *50*, 12099–12107.

309. Hydro-ionothermal syntheses, crystal structures, and properties of five new divalent metal iminophosphonates in *Dalton Transactions* themed issue entitled: Coordination chemistry in the solid state. Guest Editor Russell E. Morris. Kevin J. Gagnon, Andrey V. Prosvirin, Kim R. Dunbar, Simon J. Teat and Abraham Clearfield, *Dalton Trans.*, **2012**, *41*, 3995-4006.

310. A Mn(III) Chain Derived from Mn_{12}-Acetate that Exhibits Both Glauber Dynamics and Antiferromangetic Ordering Regimes. Andrey Prosvirin, Hanhua Zhao and Kim R. Dunbar**,** *Inorg. Chim. Acta*., (*Jon Zubieta special issue),* **2012**, *389*, 118–121.

311. Solid State Coordination Chemistry of the Copper(II)/Pyridyl- and Pyrazine-Tetrazolate/Sulfate System. Kari Darling, Wayne Ouellette, Andrey Prosvirin, Steven Freund, Kim R. Dunbar, Jon Zubieta, *Cryst. Growth Des.*, **2012**, *12*, 2662–2672.

312. Magnetic ordering in self-assembled materials consisting of cerium(III) ions and the radical forms of 2,5-$TCNQX_2$ (X= Cl, Br). Maria Ballesteros-Rivas, Eric W. Reinheimer, Hanhua Zhao, Andrey Prosvirin, Ruben A. Toscano, Jesús Valdés-Martínez and Kim R. Dunbar, *Angew. Chem. Int. Ed*., **2012**, *51*, 5124–5128.

313. Crystal-to-Crystal Transformation of Magnets Based on $[Mo(CN)_7]^{4-}$ with Dramatic Changes in Coordination Mode and Ordering Temperature, Qing-Lun Wang, Heather Southerland, Jian-Rong Li, Andrey V. Prosvirin, Hanhua Zhao, and Kim R. Dunbar, *Angew. Chem. Int. Ed*., **2012**, *51*, 932–9324.

314. Excited State Dynamics of Ru(II) Cyclometallated Dyes: Relation to Cells for Solar Energy Conversion and Comparison to Conventional Systems. Bruno Peña, Nicholas, Leed, Kim R. Dunbar, Claudia Turro, *J. Phys. Chem. C*, **2012**, 116, 22186–22195.

315. A Porous Sm(III) Coordination Nanotube with Hydrophobic and Hydrophilic Channels, Nazario Lopez, Hanhua Zhao, Dan Zhao, Hong-Cai Zhou, Joseph P. Riebenspies and Kim R. Dunbar*, Dalton Trans.,* **2013**, *42*, 54-57.

316. Spin-Crossover Materials: Properties and Applications in "*Charge Tansfer-Induced Spin Transitions in Cyanometallate Materials*", Chapter 6. "Malcolm Halcrow, Editor. Wiley-Blackwell. Kim R. Dunbar, Michael Shatruk, Catalina Achim, **2013**, 171-202.

317. Energy Band Structure and Metal-Organic Interactions in Tetracyanoquinodimethane (TCNQ) and *N*,*N*'-Dicyanoquinonediimine (DCNQI) Materials. Hirotaka Kojima, Zhongyue Zhang, Kim R. Dunbar, and Takehiko Mori. *J. Mater. Chem. C*, **2013**, *1*, 1781-1790.

318. Conducting Organic Frameworks Based on Main Group Element Cations and Organocyanide Radicals. Zhongyue Zhang, Hanhua Zhao, Hirotaka Kojima, Takehiko Mori, and Kim R. Dunbar, *Chem Eur. J.*, **2013**, 19, 3348–3357.

319. Supramolecular Architectures with π-Acidic 3,6-Bis(2-pyridyl)-1,2,4,5-Tetrazine Cavities: Role of Anion-π Interactions in the Remarkable Stability of Fe(II) Metallacycles in Solution. Helen T. Chifotides, Ian D. Giles and Kim R. Dunbar, *J. Am. Chem. Soc*., **2013**, *135*, 3039-3055.

320. Reversible Switching from Antiferro- to Ferromagnetic Behavior by Solvent-Mediated, Thermally-Induced Phase Transitions in a Trimorphic MOF-based Magnetic Sponge System" Mario Wriedt, Andrey A. Yakovenko, Gregory J. Halder, Andrey Prosvirin, Kim R. Dunbar and Hong-Cai Zhou, *J. Am. Chem. Soc*., **2013**, *135*, 4040-4050.

321. An unprecedented double layered Fe_{36} phosphonate cage. Christine M. Beavers, Tina Tezgerevska, Andrey V. Prosvirin, John D. Cashion, Brendan F. Abrahams, Carmel Abrahams, Kim R. Dunbar, and Anne F. Richards, *Inorg. Chem*., **2013**, 52,1670-2.

322. STM Studies of Isolated Mn12-Ph Single-Molecule Magnets, K. Reaves, K. Kim, K. Iwaya, T. Hitosugi, Helmut G. Katzgraber, H. Zhao, K. R. Dunbar and W. Teizer, *SPIN*, **2013**, *3*, 1350004.

323. Anion-pi Interactions in Supramolecular Architectures. Helen T. Chifotides and Kim R. Dunbar, *Acc. Chem. Res.*, **2013**, *46*, 894–906.

324. Dinuclear and heptanuclear complexes of copper(II) with 7-azaindole ligand: Synthesis, characterization, magnetic properties, and biological activity. Jacob A. Przyojski, Nicole N. Myers, Hadi D. Arman, Andrey Prosvirin, Kim R. Dunbar, Sumathy Mohan, Manickam Krishnan, Judith A. Walmsley, *J. Bioinorg. Chem*., **2013**, S0162-0134, *13*, 00097-4.

325. Photochemistry and DNA Photocleavage by a New Unsupported Dirhodium(II,II) Complex. Zhanyong Li, Scott Burya, Kim R. Dunbar, and Claudia Turro, *Phil. Trans*. *R Doc A*, (invited paper for the Royal Society Discussion meeting on *Photactivatable Metal Complexes*). **2013**, *371*, 20120128. (one of the ten most downloaded articles in 2013)

326. Cytotoxicity of Cyclometallated Ruthenium Complexes: The Role of Ligand Exchange on the Activity. Alycia Palmer, Bruno Peña, Bryan Sears, Olivia Chen, Randall P. Thummel, Kim R. Dunbar, and Claudia Turro, *Phil. Trans*., (invited paper for the Royal Society Discussion meeting on *Photactivatable Metal Complexes*), **2013**, *371,* 20120135.

Publications (continued)

327. Hydrothermal synthesis and structures of materials of the M(II)/tetrazole/sulfate family (M(II) = Co, Ni; tetrazole = 3- and 4-pyridyltetrazole and pyrazinetetrazole). K. Darling, W. Ouellette, A. Prosvirin, S. Walter, K.R. Dunbar and J. Zubieta, *Michelle Millar Special Issue, Polyhedron*, **2013**, *58*, 18-29.

328. A tetranuclear oxofluorovanadium(IV) cluster encapsulating a $Na(H_2O)_n^+$ subunit. Tiffany M. Smith, Nika Mahne, Andrey Prosvirin, Kim R. Dunbar, and Jon Zubieta, *Inorg. Chem. Commun*., **2013**, *33*, 1-5.

329. Cellular Toxicity Induced Through Photorelease of a Caged Bioactive Molecule: Design of Potential Dual-Action Ru(II) Complexes. Mark A. Sgambellone, Amanda David, Robert N. Garner, Kim R. Dunbar, and Claudia Turro, *J. Am. Chem. Soc.,* **2013**, *135*, 11274−11282.

330. One-Dimensional Square- and Ladder-Type Architectures Incorporating Octacyanometallates of Molybdenum(V) and Tungsten(V)**,** Hanhua Zhao, Andrew J. Brown, Andrey V. Prosvirin, Kim R. Dunbar, *George Christou Special Issue, Polyhedron*, **2013**, *12*, 321–327.

331. A Single-Molecule Magnet Based on $[Mo^{III}(CN)_7]^{4-}$ with the Highest Energy Barrier for a Cyanide Compound Xin-Yi Wang, Kun Qian, Xing-Cai Huang, Chun Zhou, Xiao-Zeng You, and Kim R. Dunbar, *J. Am. Chem. Soc.,* **2013**, *135*, 13302-13305.

332. A Neutral Fe(III) Compound Exhibiting A Two-Step Spin Transition and Dielectric Anomalies. Zhao-Yang Li, Jing-Wei Dai, Kevin J. Gagnon, Hong-Ling Cai, Takashi Yamamoto, Yasuaki Einaga, Han-Hua Zhao, Shinji Kanegawa, Osamu Sato, Kim R. Dunbar, and Ren-Gen Xiong, *Dalton Trans*., **2013**, *42*, 14685-14688.

333. Squaring the cube: A Family of Octametallic Lanthanide Complexes Including a Dy_8 Single-Molecule Magnet Ming Fang, Hanhua Zhao, Andrey V. Prosvirin, Dawid Pinkowicz, Kim R. Dunbar, Bin Zhao, Wei Shi, Peng Cheng, Wolfgang Wernsdorfer and Euan K. Brechin, *Dalton Trans*., **2013**, *42*, 14693 – 14701. (Cover art article).

334. Synthesis, X-ray Structure, Interactions with DNA, Remarkable *in vivo* Tumor Growth Suppression and Nephroprotective Activity of *cis*-Tetrachloro-dipivalato Dirhenium(III). Natalia I. Shtemenko, Konstantin V. Domasevitch, Alexander A. Golichenko, Svetlana A. Babiy, Zhanyong Li, Katherina V. Paramonova, Alexander V. Shtemenko, Helen T. Chifotides, Kim R. Dunbar, *J. Inorg. Biochem*., **2013**, *129*, 127–134.

335. Unprecedented Partial Paddlewheel Dirhodium Methyl Isocyanide Compounds with Unusual Structural and Electronic Properties: A Comprehensive Experimental and Theoretical Study, Zhanyong Li, Helen T. Chifotides, Kim R. Dunbar, *Chem. Sci.*, **2013**, *4*, 4470-4485.

336. A New Metal-Organic Hybrid Material with Intrinsic Resistance-Based Bistability: Monitoring *In Situ* Room Temperature Switching Behavior. Zhongyue Zhang, Hanhua Zhao, Michio M. Matsushita, Kunio Awaga and Kim R. Dunbar, *J. Mater. Chem*. C, **2014**, *2*, 399-404.

337. A cadmium TCNQ-Based Semiconductor with Versatile Binding Modes and Non-Integer Redox States. Xuan Zhang, Zhongyue Zhang, Hanhua Zhao, Jiang-Gao Mao and Kim R. Dunbar, *Chem. Commun*., **2014**, 1429-1431.

338. Directional Charge Transfer and Highly Redox Active Excited States of New Dirhodium(II,II) Complexes: Potential Applications in Solar Energy Converson. Zhanyong Li, Nicholas A. Leed, Nicole M. Dickson, Kim R. Dunbar, and Claudia Turro, *Chem. Sci.,* **2014**, *5*, 727-737. (Edge Article)

339. New Cyclometallated Ru(II) Complex for Potential Application in Photochemotherapy. Bryan A. Albani, Bruno Peña, Kim R. Dunbar, Claudia Turro, *Photochem. Photobiol. Sci*., **2014**, *13*, 272-280.

340. Trigonal bipyramidal 5d-4f Single Molecule Magnets. Mohamed R. Saber and Kim R. Dunbar, *Chem. Commun*., **2014**, *50*, 2177-2179.

341. Cytotoxicity Studies of Cyclometallated Ru(II) Compounds: New Applications for Ruthenium Dyes. Bruno Peña, Amanda David, Jean-Philippe Pellois, Claudia Turro and Kim R. Dunbar, **2014**, *Organometallics*, **2014**, *33*, 1100–1103.

342. Variations in Topology and Magnetic Properties of Hepta- and Octacyanometallates of Molybdenum with Manganese (II). Qing-Lun Wang, Yuan-Zhu Zhang, Heather Southerland, Andrey V. Prosvirin, Hanhua Zhao and Kim R. Dunbar, *Dalton. Trans*., **2014**, *43*, 6802-6810.

343. Semiconductors and Aperiodic Structures in Organocyanide-Based Materials, Xuan Zhang, Hanhua Zhao, Lukas Palatinus, Kevin Gagnon, John Bacsa, Kim R. Dunbar, *Acta Crystallographica Section A: Foundations and Advances*, **2014**, *70*, C1265-C1265.

344. Hydrothermal Synthesis, Structure and Magnetic Properties of a Three-Dimensional Cobalt(II) – Aminophenyltetrazolate Coordination Polymer, Tiffany M. Smith, Yuan-Zhu Zhang, Kim R. Dunbar, and Jon Zubieta, *Dalton. Trans*., **2014**, *43*, 7263-7268.

345. A Fast Metal-Metal Bonded Water Oxidation Catalyst. Sara Goberna-Ferrón, Bruno Peña, Joaquín Soriano-López, Jorge J. Carbó, Josep M. Poblet Hanhua Zhao, Kim R. Dunbar, and José Ramón Galán-Mascarós, *J. Catal.,* **2014**, *315*, 25-32.

346. Confocal Fluorescence Microscopy Studies of a Fluorophore-labeled Dirhodium Compound: Visualizing Metal-Metal Bonded Molecules in Lung Cancer (A549) Cells*,* Bruno Peña, Rola Barhoumi, Robert C. Burghardt, Claudia Turro and Kim R. Dunbar, *J. Am. Chem. Soc*., **2014**, *136*, 7861–7864.

347. Magnetic Coupling between Metal Spins through 7,7,8,8-Tetracyanoquinodimethane (TCNQ) Dianion, Mohamed R. Saber, Andrey V. Prosvirin, Brendan F. Abrahams, Robert W. Elliott, Richard Robson, and Kim R. Dunbar, *Chem Eur. J.*, **2014**, *20*, 7593-7597.

348. Record antiferromagnetic coupling for a 3d/4d cyanide bridged compound, Dawid Pinkowicz, Heather Southerland, Xin-Yi, Wang and Kim R. Dunbar, *J. Am. Chem. Soc*., **2014**, *136*, 9922–9924.

349. Ligand effects on the magnetic anisotropy of tetrahedral cobalt complex, Mohamed Saber and Kim R. Dunbar, *Chem. Commun*., **2014**, *50*, 12266-12269.

350. Isomerization Initiated by Photoinduced Ligand Dissociation in Ru(II) Complexes with the Ligand 2-*p*-tolylpyridinecarboxaldimine, Bryan A. Albani, Christopher B. Durr, Bruno Peña, Kim R. Dunbar, and Claudia Turro, *Dalton Trans*. (*special issue*), **2014**, *43*, 17828-17837.

351. Liposomes Loaded with a Dirhenium Compound and Cisplatin: Preparation, Properties and Improved *in vivo* Anticancer Activity, Zhanyong Li, Nataliia I. Shtemenko, Dina Y. Yegorova, Svetlana O. Babiy, Andrew J. Brown, Tinglu Yang, Alexander V. Shtemenko, Kim R. Dunbar, *Journal of Liposome Research*, **2014**, Sep 9:1-10.

352. Single-Chain Magnetic Behavior in a Hetero-Tri-Spin Complex Mediated by Supramolecular Interactions with $TCNQF^{-}$• Radicals, Zhao-Xi Wang, Xuan Zhang, Yuan-Zhu Zhang, Ming-Xing Li, Hanhua Zhao, Marius Andruh and Kim R. Dunbar, *Angew. Chem. Int. Ed*., **2014**, *53*, 11567-70.

353. Synthesis, Spectroscopic Properties, and Photoconductivity of Black Absorbers Consisting of Pt(Bipyridine)(Dithiolate) Charge Transfer Complexes in Presence and Absence of Nitrofluorenone Acceptors. Charles Browning, Joshua M. Hudson, Eric W. Reinheimer, Fang-Ling Kuo, Roy N. McDougald, Jr., Hassan Rabaâ, Hongjun Pan, John Bacsa, Xiaoping Wang, Kim R. Dunbar, Nigel D. Shepherd, and Mohammad A. Omary, *J. Am. Chem. Soc*., **2014**, *136*, 16185–16200.

Publications (continued)

354. Marked Improvement in Photoinduced Cell Death by a New Tris-Heteroleptic Complex with Dual Action: Singlet Oxygen Sensitization and Ligand Dissociation. Bryan A. Albani, Bruno Peña, Nicholas N. Leed, Nataly A. B. G. de Paula, Christiane Pavani, Mauricio S. Baptista, Kim R. Dunbar, and Claudia Turro, *J. Am. Chem. Soc.*, **2014**, *136*, 17095–17101.

355. Synthesis, Characterization, and Reactivity of Iron(III) Complexes Supported by a Trianionic ONO^{3-} Pincer Ligand, Matias E. Pascualini, Natali V. Di Russo, Pedro A. Quintero, Annaliese A. Thuijs, Dawid Pinkowicz, Khalil A. Abboud, Kim R. Dunbar, George Christou, Mark W. Meisel, and Adam S. Veige, *Inorg. Chem*. **2014**, *53*, 13078–13088.

356. Optimizing the Electronic Properties of Photoactive Anticancer Oxypyridine Bridged Dirhodium(II,II) Complexes, Zhanyong Li, Amanda David, Bryan A. Albani, Jean-Philippe Pellois, Claudia Turro, and Kim R. Dunbar, *J. Am. Chem. Soc*., **2014**, *36*, 17058–17070.

357. A Single-Chain Magnet Tape Based on Hexacyanomanganate(III), Yuan-Zhu Zhang, Han-Hua Zhao, Edward Funck, and Kim R. Dunbar, *Angew. Chem. Int. Ed.,* **2015**, *5*4, 5583-5587. *Selected for Hot Topics*

358. A Trigonal Pyramidal Erbium(III) Single-Molecule Magnet, Andrew J. Brown, Dawid Pinkowicz, Mohamed R. Saber and Kim R. Dunbar, *Angew. Chem*. *Int. Ed.,* **2015**, *54*, 5864-5868. *Selected for Hot Topics*

359. Strong Direct Magnetic Coupling in a Dinuclear Co^{II} Tetrazine Radical Single-Molecule Magnet. Toby J. Woods, Maria Fernanda Ballesteros-Rivas, Sergei M. Ostrovsky, Andrew V. Palii, Oleg S. Reu, Sophia I. Klokishner, and Kim R. Dunbar, *Chem. Eur. J.*, **2015**, *21*, 10302–10305.

360. Metal-organic frameworks as platforms for isolating individual single-molecule magnets in pores. Joshua B. Pyser, Darpandeep Aulakh, Xuan Zhang, Andrey A. Yakovenko, Kim R. Dunbar and Mario Wriedt, *J. Am. Chem. Soc.*, **2015**, *37*, 9254–9257.

361. Group 9: Cobalt, Rohodium and Iridium, Book Chapter in "*Molecular Metal-Metal Bonds. Compounds, Synthesis, Properties*", Editor, Stephen Liddle, Wiley, Helen Chifotides, Biswajit Saha, Kim R. Dunbar, Jitendra K. Bera, **2015**.

362. Structural Distortions of the Spin-Crossover Material $[Co(pyterpy)_2](TCNQ)_2$ Mediated by Supramolecular Interactions, Xuan Zhang, Haomiao Xie, Maria Ballesteros-Rivas, Zhao-Xi Wang, Kim R. Dunbar, *J. Mater. Chem. C*, (invited paper), **2015**, 3, 9292-9298.

363. A Dinuclear Ru(II) Complex Capable of Photoinduced Ligand Exchange at Both Metal Centers, B. A. Albani, B. Peña, S. Saha, A. Schaeffer, K. R. Dunbar and C. Turro, *Chem. Commun*., **2015**, *51*, 16522-16525.

364. Magnetic Ordering in TCNQ-Based Metal-Organic Frameworks With Host-Guest Interactions, Xuan Zhang, Mohamed R. Saber, Andrey P. Prosvirin, Joseph H. Reibenspies, Lei Sun, Maria Ballesteros-Rivas, Hanhua Zhao, Kim R. Dunbar themed issue on 'Molecular Magnetism' *Inorganic Chemistry Frontiers*, **2015**, *2*, 904-911. (invited paper)

365. Synthesis and X-ray crystal structure of the dirhenium complex $Re_2(i\text{-}C_3H_7CO_2)_4Cl_2$ and its interactions with the DNA purine nucleobases, Alexander V. Shtemenko, Helen T. Chifotides, Dina E. Yegorova, Natalia I. Shtemenko and Kim R. Dunbar, *J. Inorg. Biochem.,* **2015**, *153*, 114-120.

366. A New $Rh_2(II,II)$ Architecture for the Catalytic Reduction of H^+, Travis A. White, Suzanne E. Witt, Zhanyong Li, Kim R. Dunbar, and Claudia Turro, *Inorg. Chem*., **2015**, *54*, 10042–10048.

Publications (continued)

367. Cyanide Single Molecule Magnets Exhibiting Reversible, Solvent Dependent "On" and "Off" Exchange Bias Behavior. Dawid Pinkowicz, Heather I. Southerland, Carolina Avendaño, Andrey Prosvirin, Wolfgang Wernsdorfer, Kasper S. Pedersen, Jan Dreiser, Rodolphe Clérac and Kim R. Dunbar, *J. Am. Chem. Soc*., **2015**, *137*, 14406-14422.

368. A cobalt(II) spin-crossover compound with partially charged TCNQ radicals and an anomalous conducting behavior. Xuan Zhang, Zhao-Xi Wang, Haomiao Xie, Ming-Xing Li, Toby J. Woods and Kim R. Dunbar, *Chemical Science,* (*Edge Article*) **2016**, *7*, 1569-1574.

369. Electronic influences of bidentate versus bridging diimine ligand coordination in formamidinate-bridged Rh_2(II,II) dimers. Travis A. White, Kim R. Dunbar, Randolph P. Thummel, and Claudia Turro, *Polyhedron* (*invited paper for Special issue dediciated to Malcolm Chisholm*), **2016**, *103*, 172-177.

370. New Ru^{II} Complex for Dual Activity: Photoinduced Ligand Release and $^1O_2$ Production. Lauren M. Loftus, Jessica K. White, Bryan A. Albani, Lars Kohler, Jeremy J. Kodanko, Randolph P. Thummel, Kim R. Dunbar, and Claudia Turro, **2016**, *Chem. Eur. J. special issue on Women in Chemistry* (invited), *22*, 3704–3708.

371. Self-assembly of Organocyanide Dianions and Metal-Organic Macrocycles Including an Unprecedented Quadruple Helical Aperiodic Structure. Xuan Zhang, Hanhua Zhao, Lukas Palatinus, Kevin Gagnon, John Bacsa, Kim R. Dunbar, *Crystal Growth & Design*, **2016**, *16*, 1805–1811.

372. Trigonal Antiprismatic Co(II) Single Molecule Magnets with Large Uniaxial Anisotropies: Importance of Raman and Tunneling Mechanisms, Yuan-Zhu Zhang, Silvia Gómez-Coca, Andrew J Brown, Mohamed R. Saber, Xuan Zhang, Kim R. Dunbar, *Chemical Science* (*Edge Article*), **2016**, *7*, 6519-6527.

373. Heptacyanotungstate(IV) Anion: A New 5d Transition-Metal Member of the Rare Heptacyanometallate Family of Anions. Francisco J. Birk, Dawid Pinkowicz, and Kim R. Dunbar, *Angew. Chem. Int. Ed*., **2016**, *55*, 11368-11371. *Selected for the Frontispiece for Communications*

374. Cationic Dirhodium(II,II) Complexes for the Electrocatalytic Reduction of CO_2 to HCOOH. Suzanne Witt, Travis A. White, Zhanyong Li, Kim R. Dunbar and Claudia Turro, *Chem. Comm*., **2016**, *52*, 12175-12178.

375. Switching of Adsorption Properties in a Zwitterionic Metal–Organic Framework Triggered by Photogenerated Radical Triplets. Wen An, Wolfgang Verdegaal, Xuan Zhang, Kim R. Dunbar, and Mario Wriedt, *Chem. Mater.*, **2016**, *28*, 7825–7832.

376. Relaxation Dynamics of Identical Trigonal Bipyramidal Cobalt Molecules with Different Local Symmetries and Packing Arrangements: Magnetostructural Correlations and *ab initio* Calculations. Toby J. Woods, María F. Ballesteros-Rivas, Silvia Gómez-Coca, Eliseo Ruiz and Kim R. Dunbar, *J. Am. Chem. Soc*., **2016**, *138*, 16407–16416.

377. Hydrothermal syntheses and structures of cobalt(II) and copper(II) coordination polymers with 1-tetrazole-phenyl-4-methylphosphonate ligands. Tiffany M. Smith Pellizzeri, Y.-Z. Zhang, Jonathan Gooch, Adam Lau, Sharde McLeish, Kim R. Dunbar, and Jon Zubieta, *Inorg. Chem. Acta.,* **2017**, *458*, 109-115.

378. Titanium(III) Member of the Family of Trigonal Building Blocks with Scorpionate and Cyanide Ligands. Andrew Brown, Mohamed Saber, Willem Van den Heuvel, Kelsey Schulte, Alessandro Soncini and Kim R. Dunbar, **2017**, *Inorg. Chem*., *56*, 1031–1035.

379. Systematic study of open shell trigonal pyramidal transition metal complexes with a rigid ligand scaffold. Dawid Pinkowicz, Francisco J. Birk, Michał Magott, Kelsey Schulte and Kim R. Dunbar, *Chem. Eur. J.*, **2017**, *23*, 3548–3552.

380. Introduction to Molecular Magnetism, Chapter 2 in *Molecular Magnetic Materials. Concepts and applications,* Wiley-VCH Verlag GmbH & Co. KGaA, Eds. Barbara Siekluca and Dawid Pinkowicz, Michael Shatruk, Silvia Gómez-Coca and Kim R. Dunbar, **2017**. Published Online: 4 NOV 2016.

381. An Air Stable Radical-Bridged Dysprosium Single Molecule Magnet and Its Neutral Counterpart: Redox Switching of Magnetic Relaxation Dynamics, Brian S. Dolinar, Silvia Gómez-Coca, Dimitrious I. Alexandropoulos, and Kim R. Dunbar, Kim R. Dunbar, *Chem. Commun*., **2017**, *53*, 2283-2286.

382. Magneto-Structural Analysis of Iron(III) Keggin Polyoxometalates. Nuno A. G. Bandeira, Omid Sadeghi, Toby J. Woods, Yuan-Zhu Zhang, Jürgen Schnack, Kim Dunbar, May Nyman, and Carles Bo, *J. Phys. Chem. A*., **2017**, *121*, 1310–1318.

383. Conducting molecular nanomagent of Dy^{III} with partially charged TCNQ radicals. Xuan Zhang, Haomiao Xie, Maria Fernanda Ballesteros-Rivas, Toby J. Woods, and Kim R. Dunbar, *Chem. Eur. J.*, **2017**, *23*, 7448-7452.

384. A family of octahedral molecules based on $[Nb^{IV}(CN)_8]^{4-}$. Mirosław Arczyński, Michał Rams, Jan Stanek, Magdalena Fitta, Barbara Sieklucka, Kim R. Dunbar, and Dawid Pinkowicz, *Inorg Chem*., **2017**, *56*, 4021-4027.

385. Systematic Investigation of Controlled Nanostructuring of Mn12 Single-Molecule Magnets Templated by Metal-Organic Frameworks. Darpandeep Aulakh, Haomiao Xie, Zhe Shen, Alex Harley, Xuan Zhang, Andrey A. Yakovenko, Kim R. Dunbar, and Mario Wriedt, *Inorg. Chem*., **2017**, *56*, 6965-6972.

386. Three-Dimensional Fe^{II}-$[Mo^{III}(CN)_7]^{4-}$ Magnets with Ordering below 65 K and Distinct Topologies Induced by Cation Identity. Dong-Qing Wu, Yan Zhou, Lin-Dan Deng, Dong Shao, Xiao-Qin Wei, Le Shi, David Kempe, Kim R Dunbar, and Xin-Yi Wang, *Inorg. Chem*., **2017**, *56*, 7182-7189.

387. Putting a New Spin on Supramolecular Metallacycles: Co_3 Triangle and Co_4 Square Bearing Tetrazine-Based Radicals as Bridges Dimitrious I. Alexandropoulos, Brian S. Dolinar, Kuduva R. Vignesh and Kim R. Dunbar, *J. Am. Chem. Soc*., **2017**, *139*, 11040-11043.

388. Electronic, Magnetic, Redox Properties, and O_2 Reactivities of Fe(II) and Ni(II)-*o*-Semiquinonate Complexes of a Tris(thioether) Ligand: Uncovering the Intradiol Cleaving Reactivity of an Fe(II)-*o*-semiquinonate Complex, Peng Wang, Michelle M. Killian, Mohamed R. Saber, Tian Qiu, Glenn P. A. Yap, Codrina V. Popescu, Joel Rosenthal, Kim R. Dunbar, Thomas C. Brunold, and Charles G. Riordan, *Inorg. Chem*., **2017**, *56*, 10481-10495.

389. Reversible On-Off Switching of a Single-Molecule Magnet via a Crystal-to-Crystal Chemical Transformation. Dong-Qing Wu, Dong Shao, Xiao-Qin Wei, Fu-Xing Shen, Le Shi, David Kempe, Yuan-Zhu Zhang, Kim R Dunbar and Xin-Yi Wang, *J. Am. Chem. Soc*., **2017**, *139*, 11714-11717.

390. Strong Ferromagnetic Exchange Coupling Mediated by a Tetrazine Radical in a Dinuclear Nickel Complex. Toby J. Woods, Heather D. Stout, Brian S. Dolinar, Kuduva R. Vignesh, Maria F. Ballesteros-Rivas, Catalina Achim, and Kim R. Dunbar, *Inorg. Chem*., **2017**, *20*, 12094–12097.

391. Enforcing Ising-like magnetic anisotropy via trigonal distortion in the design of a W(V)-Co(II) cyanide single-chain magnet. Yuan-Zhu Zhang, Brian S. Dolinar, Andew J Brown, Xuan Zhang, Zhao-Xi Wang, and Kim R. Dunbar, *Chem., Sci.*, **2018**, *9*, 119-124.

Publications (continued)

392. Lanthanide Triangles Supported by Radical Bridging Ligands. Brian S. Dolinar, Dimitrious I. Alexandropoulos, Kuduva R. Vignesh, Tia'Asia James, Kim R. Dunbar, *J. Am. Chem. Soc.,* **2018**, *140*, 908–911.

393. Tunable Rh_2(II,II) Light Absorbers as Excited State Electron Donors and Acceptors Accessible with Red/Near-IR Irradiation. Tyler Whittemore, Agustin Millet, Hannah Sayre, Congcong Xue, Brian Dolinar, Eryn White, Kim R. Dunbar, *J. Am. Chem. Soc*., **2018**, *140*, 5161–5170.

394. Synthesis of $[Cr^{III}(NCMe)_6]^{3+}$ and $[Cr^{III}(NCMe)_5F]^{2+}$. Submitted by Kendric J. Nelson and Joel S. Miller. Checked by Toby J. Woods and Kim R. Dunbar, *Inorg. Synth*, **2018**, *37*, Chapter 8, 0000-0000. ISBN: 978-1-119-47773-0.

395. Photocatalytic H_2 production by dirhodium(II,II) photosensitizers with red light. Hannah J. Sayre, Agustin Millet, Kim R. Dunbar and Claudia Turro, *Chem. Commun*., **2018**, *54*, 8332-8334.

396. End-to-end azides as bridging ligands in lanthanide coordination chemistry: Magnetic and Magnetocaloric Properties of Tetranuclear Ln_4 (Ln = Gd, Dy) complexes exhibiting a rare rhombus topology. Dimitrious I Alexandropoulos, Kuduva R Vignesh, Brian S Dolinar; Kim Dunbar, *Polyhedron* (special issue, invited paper), **2018**, *151*, 255-263.

397. Optical, Electronic and Magnetic Engineering of 1⟨1 1⟩ Layered Halide Perovskites. Brenda, Vargas, Raúl, Torres-Cadena, Joelis Rodriguez-Hernandez, Milan Gembicky, Haomiao Xie, José; Jiménez-Mier, Yi-Sheng Liu, Eduardo Menendez Proupin; Kim R. Dunbar, Nazario Lopez, Paul Olalde-Velasco, Diego Solis-Ibarra, *Chem. Mater*., **2018**, *30*, 5315–5321.

398. Slow magnetic dynamics in a family of mononuclear lanthanide complexes exhibiting the rare cubic coordination geometry. Dimitrious I. Alexandropoulos, Kelsey Schulte, Kuduva R. Vignesh, and Kim R. Dunbar, *Chem. Commun*., **2018**, *54*, 10136-10139.

399. Tackling Tuberculosis: Merging Experimental and Computational Methods to explore Phenyl Diketo Acid Inhibition of Malate Synthase. Jill F. Ellenbarger, Inna V. Krieger, Hsiao-ling Huang, Thomas R. Ioerger, James C. Sacchettini, Steven E. Wheeler, Silvia Gomez-Coca, Kim R. Dunbar, *J. Chem. Inf. Model.,* **2018**, 58, 10, 2085-2091. COVER ART

400. Ruthenium(II) polypyridyl compounds with π-extended electron-donating N^O$^-$ ligands induce apopotosis in human lung adenocarcinoma (A549) cells by triggering caspase-3/7 pathway. Bruno Peña, Sayan Saha, Rola Barhoumi, Robert C. Burghardt, and Kim R. Dunbar, *Inorg. Chem.,* **2018**, *57*, 12777-12786.

401. Effects of coordination sphere on unusually large zero field splitting and slow magnetic relaxation in trigonally symmetric molecules. Kelsey A. Schulte, Kuduva R. Vignesh, and Kim R. Dunbar, *Chem.Sci*., **2018**, *9*, 9018-9026**.**

402. Rare "Janus"-Faced {FeII7} Single-Molecule Magnet Exhibiting Intramolecular Ferromagnetic Interactions Kuduva R. Vignesh, Theocharis C. Stamatatos, and Kim R. Dunbar, *Chem. Sci*., **2019**, **DOI:** 10.1039/C8SC04384A. HOT Article. Highlighted on Royal Society of Chemistry blog.

403. Hexagonal Bipyramidal Dy(III): New Structural Archetype for Single Molecule Magnets. Jing Li, Silvia Gómez-Coca, Brian S. Dolinar, Li Yang, Fei Yu, Ming Kong, Yi-Quan Zhang and You Song and Kim R. Dunbar, **2019**, *Inorg. Chem*., in press.

404. Direct Imaging of Isolated Single Molecule Magnets in Metal-Organic Frameworks. Darpandeep Aulakh, LingMei Liu, Juby R. Varghese, Haomiao Xie, Timur Islamoglu, Kyle Duell, Chia-En Hsiung, Yuxin Zhang, Omar Farha, Kim R. Dunbar, Yu Han and Mario Wriedt, **2019**, *J. Am. Chem. Soc., in press.*

Publications (continued)

405. A cyanide-bridged wheel featuring a seven-coordinate Mo(III) center. David K. Kempe, Brian S. Dolinar, Kuduva R. Vignesh, Toby J. Woods, Mohamed R. Saber, and Kim R. Dunbar, submitted to *Chem. Commun.*

406. Synthesis, Magnetic and Electrochemical Studies of Pentagonal Bipyramidal Metal Complexes of Fe, Co, Ni and Zn. Yi-Fei Deng, Binling Yao, Peng-Zhi Zhan, Kuduva R. Vignesh, Kim R. Dunbar and Yuan-Zhu Zhang, submitted to *Dalton Trans*.

407. Hard versus Soft: Zero-Field dinuclear Dy(III) oxygen bridged SMM and theoretical predictions of the sulfur and selenium analogues. Kuduva R. Vignesh, Dimitris I. Alexandropoulos, Brian S. Dolinar, Kim R. Dunbar, submitted to *Chem. Commun.*

408. Switching On Single-Molecule Magnet Properties of Homoleptic Sandwich Tris(pyrazolyl)borate Dysprosium (III) Cations via Intermolecular Dipolar Coupling. Dimitris I. Alexandropoulos, Kuduva R. Vignesh, Haomiao Xie, and Kim R. Dunbar, submitted to *Chem. Sci*.

In Preparation

409. A Dilanthanide Complex Bridged by Two Radical Azobipyridine Ligands Exhibiting Slow Relaxation of Magnetization. Brian S. Dolinar, Dimitris I. Alexandropoulos, Kuduva R. Vignesh, Kim R. Dunbar, to be submitted to *Chem. Commun*.

410. SMM Behavior for a Series of Neutral Bridged $[Dy(fod)_3]_2L$ dimers. Brian S. Dolinar, Kuduva R. Vignesh, Silvia Gómez-Coca, and Kim R. Dunbar to be submitted to *Inorg. Chem.*

411. A Series of Molybdenum-Lanthanide 1D chains. David Kempe, Hanhua Zhao, Brian Dolinar and Kim R. Dunbar. to be submitted to *Inorg. Chem.*

412. The biological activity of mixed-ligand Rh_2(II,II) complex featuring 2-hydroxy-6-methylpyridinate bridging ligands. Ryan P. Coll, Tyler Whittemore, Jean-Phillippe Pellois, Claudia Turro, Kim R. Dunbar. to be submitted to *Inorg. Chem.*

413. Polynuclear Complexes Based on the $[M^{IV}(CN)_7]^{3-}$ (M = Mo, W) Anions. Francisco Birk, Dawid Pinkowicz, Kim R. Dunbar, to be submitted to *Inorg. Chem*.

414. 4d and 5d Complexes Incorporating the Tp* Ligand. Francisco Birk and Kim Dunbar, to be submitted to *Inorg. Chem*.

415. Apoptosis-inducing Ruthenium(II) cyclometalated compounds bearing the 6-phenyl-2,2'-bipyridine ligand. Sayan Saha; Rola Barhoumi, Caludia Turro and Kim R. Dunbar. To be submitted to *JACS* or *Chemical Science*.

416. Photodissociation of pyridine highly favored by sterically directing non-coordinated Phenyl ring moiety on ancillary 6-phenyl-2,2'-bipyridine ligand. Sayan Saha, Claudia Turro; Kim R. Dunbar. to be submitted to *Chem. Commun*.

417. Molecule-Based Functional Materials Based on Redox-Active Dimetal Complexes and Organocyanide Acceptors, Xuan Zhang, Helen T. Chifotides, Kim R. Dunbar, to be submitted to *Angew. Chem*. as a Mini-review.

418. New Anisotropic Vanadium Cyanide Building Blocks, Mohamed R. Saber, Komalavalli Thirunavukkuarasu, Stephen Hill and Kim R. Dunbar, to be submitted to *Chem. Commun*.,

419. A mixed valence octanuclear complex $[Cu_8(bmtz)_6][BF_4]_6$ composed of Cu(I) ions with two radical and four neutral bis(2-pyrimidyl)-1,2,4,5-tetrazine ligands. Toby J. Woods, Edward S. Funk, Helen T. Chifotides, and Kim R. Dunbar, to be submitted to *Angew. Chem*.

Reviews and Book Chapters

1. New Applications of Weak Donor Atoms to Coordination, Organometallic and Materials Chemistry. Kim R. Dunbar *Comments Inorg. Chem.* **1992**, *13*, 313-357.
2. Review of the Coordination Chemistry of Tungsten for 1991. Kim R. Dunbar and Gary M. Finniss *Coord. Chem. Rev*. **1993**, *127*, 65-97.
3. Incorporation of Quadruply-Bonded Units into Solid-State Materials. Kim R. Dunbar *J. Cluster Science* **1994**, *5*, 125-143.
4. Review of the Coordination Chemistry of Tungsten for 1992. Kim R. Dunbar and Vijay P. Saharan *Coord. Chem. Rev.* **1995**, *138*, 39-70.
5. Review of "Multiple Bonds Between Metal Atoms. Second Edition." Kim R. Dunbar *J. Am. Chem. Soc*. **1994**, *116*, 7957.
6. Organocyanide Acceptor Molecules as Novel Ligands. Kim R. Dunbar *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 1659-1661.
7. Bioinorganic chemistry: Antitumor chemistry. Kim R. Dunbar and Kemal V. Catalan *McGraw Hill Encyclopedia of Science &Technology 1997*, McGraw-Hill, **1996**, 40-43.
8. Chemistry of Transition Metal Cyanide Compounds: Modern Perspectives. Kim R. Dunbar and Robert A. Heintz *Prog. Inorg. Chem.* **1997**, *45*, 283-391.
9. Chain Compounds Based on Transition Metal Backbones: New Life For an Old Topic. Jitendra Bera and Kim R. Dunbar *Angew. Chem. Int. Ed.* **2002**, *41*, 4453-4457.
10. Future directions in solid state chemistry: report of the NSF-sponsored workshop. Robert J. Cava, Francis J. DiSalvo, Louis E. Brus, Kim R. Dunbar, Christopher B. Gorman, Sossina M. Haile, Leonard V. Interrante, Janice L. Musfeldt, Alexandra Navrotsky, Ralph G. Nuzzo, Warren E. Pickett, Angus P. Wilkinson, Channing Ahn, James W. Allen, Peter C. Burns, Gerdrand Ceder, Christopher E.D. Chidsey, William Clegg, Eugenio Coronado, Hongjie Dai, Michael W. Deem, Bruce S. Dunn, Giulia Galli, Allan J. Jacobson, Mercouri Kanatzidis, Wenbin Lin, Arumugam Manthiram, Milan Mrksich, David J. Norris, Arthur J. Nozik, Xiaogang Peng, Claudia Rawn, Debra Rolison, David J. Singh, Brian H. Toby, Sara Tolbert, Ulrich B. Wiesner, Patrick M. Woodward and Peidong Yang *Progress in Solid State Chemistry* **2002**, *30*, 1-101.
11. Building Block Approaches to Nanomagnetic Materials. Kim R. Dunbar *Foundations of Nanoscience Proc.* **2004**, 171.
12. Self-Assembled Inorganic Architectures. Jitendra K. Bera, John Bacsa and Kim R. Dunbar *Encyclopedia of Inorganic Chemistry*, Second Edition (Ed. R. Bruce King), John Wiley & Sons, Inc., **2005**.
13. Rhodium Compounds, Chapter 12 In '*Multiple Bonds Between Metal Atoms*', 3rd Edition, Helen T. Chifotides and Kim R. Dunbar. (Eds., F. A. Cotton, C. Murillo and R.A. Walton) Springer-Science and Business Media, *Inc*.,: New York, **2005**, pp 465-589.
14. Interactions of Metal—Metal-Bonded Antitumor Active Complexes with DNA Fragments and DNA. Helen T. Chifotides and Kim R. Dunbar *Acc. Chem. Res.* **2005**, *38*, 146-156.
15. Anion-π Interactions: A Tutorial Review. Brandi L. Schottel, Helen T. Chifotides and Kim R. Dunbar *Chem. Soc. Rev*., **2008**, *37*, 68–83 (web release September 13, 2007).
16. Cyanide-Bridged Complexes of Transition Metals: A Molecular Magnetism Perspective. Michael Shatruk, Carolina Avendaño and Kim R. Dunbar, *Prog. Inorg. Chem*., **2009**, *56*, 155-334.

Reviews and Book Chapters (continued)

17. Molecular Magnetic Materials Based on 4d and 5d Transition Metals. Xin-Yi Wang, Carolina Avendano and Kim R Dunbar, *Chem. Sov. Rev*. (invited critical review), **2011**, *40*, 3213-3238**.**

18. Beyond the spin model: Exchange coupling in molecular magnets with unquenched orbital angular momenta. Andrei Palii, Boris Tsukerblat, Sophia Klokishner, Kim R. Dunbar, Juan Modesto Clemente-Juan, Eugenio Coronado, *Chem. Sov. Rev*., (invited critical review, featured on the cover), **2011**, *40*, 3130–3156.

19. Spin-Crossover Materials: Properties and Applications in "*Charge Tansfer-Induced Spin Transitions in Cyanometallate Materials*", Chapter 6. "Malcolm Halcrow, Editor. Wiley-Blackwell. Kim R. Dunbar, Michael Shatruk, Catalina Achim, **2013**, 171-202.

20. Anion-pi Interactions in Supramolecular Architectures. Helen T. Chifotides and Kim R. Dunbar, *Acct. Chem. Res*., **2013**, *46*, 894–906.

21. Group 9: Cobalt, Rohodium and Iridium, Chapter in "Molecular Metal-Metal Bonds. Compounds, Synthesis, Properties", Editor, Stephen Liddle, Wiley, Helen Chifotides, Biswajit Saha, Kim R. Dunbar, Jitendra K. Bera, **2015**.

22. Introduction to Molecular Magnetism, Chapter 2 in *Molecular Magnetic Materials. Concepts and applications,*Wiley-VCH Verlag GmbH & Co. KGaA, Eds. Barbara Siekluca and Dawid Pinkowicz, Michael Shatruk, Silvia Gómez-Coca and Kim R. Dunbar, **2017**. Published Online: 4 NOV 2016.

Conference Papers presented or co-authored

1. Preparation of a Series of Complexes $[Re_2Cl_4(PMe_4Ph)_4](PF_4)_n$ (n = 2,1 or 0). K. R. Dunbar and R. A. Walton, Indiana University – Purdue University – University of Notre Dame minisymposium, Purdue University, 3/83.

2. $[Re_2Cl_4(PMe_4Ph)_4]^{n+}$ (n = 2, 1 or 0): A Series of Complexes with Metal-Metal Bond Orders of 4, 3.5 and 3. K. R. Dunbar and R. A. Walton, ACS Central Regional Meeting, Miami University, OH, 5/83.

3. Synthesis, Characterization and Reactivity of a Series of Complexes with Metal-Metal Bond Orders of 4, 3.5 and 3. K. R. Dunbar and R. A. Walton, 186th ACS National Meeting, Washington, D.C., 8/83.

4. Redox Chemistry of Dinuclear Rhenium Complexes, K. R. Dunbar. Symposium on Graduate Student Research, Purdue University, 3/84.

5. Cobaltocene Reductions of Multiply Bonded Dirhenium Complexes. K. R. Dunbar and R. A. Walton, 187th ACS National Meeting, St. Louis, MO, 4/84.

6. Redox Chemistry Associated with Electron-Rich Metal-Metal Triple Bonds. K. R. Dunbar, S. M. Tetrick and R. A. Walton. ICCC International Conference on Coordination Chemistry. Boulder, CO, 8/84.

7. Redox Chemistry Associated with Electron-Rich Metal-Metal Triple Bonds. K. R. Dunbar, S. M. Tetrick and R. A. Walton. Purdue University, Annual Industrial Associates Workshop, 9/84.

8. Redox and Carbonyl Chemistry of Dirhenium Complexes Containing Quadruple and Electron-Rich Triple Bonds. K. R. Dunbar, Texas A&M University, 2/85.

9. Preparation, Spectroscopic and Structural Characterization of $Re_2Cl_4(dppm)_2(CO)CNR$ (R = i-Pr, t-Bu or xylyl). A. C. Price, R. A. Walton, F. A. Cotton, K. R. Dunbar, W. Schwotzer, 190th ACS National Meeting, Chicago, IL, 9/85.

10. Synthesis, Structural and Spectroscopic Characterization of Some Os_2^{6+} and Os_2^{5+} Compounds. F. A. Cotton, K. R. Dunbar and M. Matusz, 191st ACS National Meeting, New York, NY, 4/86.

11. Studies of Electronic Structure of Metal-Metal Quadruply Bonded Complexes with Varying Degrees of Internal Rotation Between Metal Centers. G. D. Hinch, D. L. Lichtenberger, P. Agaskar, F. A. Cotton, K. R. Dunbar and D. Lewis, 192nd ACS National Meeting, Anaheim, CA, 9/86.

12. Isomerization in Multiply Bonded Dimetal Complexes Containing □-Acceptor Ligands. L. B. C. Price, R. A. Walton, F. A. Cotton, K. R. Dunbar and L. R. Falvello, 193rd ACS National Meeting, Denver, CO, 4/87.

13. Oxidative Addition Reactions of Compounds Containing Quadruple and Electron-Rich Triple Bonds. F. A. Cotton and K. R. Dunbar, ACS Central Regional Meeting, The Ohio State University, OH, 6/87.

14. New Directions in the Chemistry of Dirhodium (II) Compounds. F. A. Cotton and K. R. Dunbar, Gordon Research Conference, Inorganic Chemistry, Brewster Academy, NH, 8/87.

15. Synthesis and Characterization of New Types of Compounds Containing Rh-Rh and Os-Os Bonds. F. A. Cotton and K. R. Dunbar, 194th ACS National Meeting, New Orleans, LA, 9/87.

16. Preparation and Reactivity of Solvated Binuclear Transition Metal Cations. S. J. Chen, K. R. Dunbar, S. C. Haefner, and L. E. Pence, 197th ACS National Meeting, Dallas, TX, 4/89.

17. A Series of Monomeric Rhodium Complexes Stabilized by An Identical Ligand Set: Preparation and Structural Characterization of $[Rh(TMPP)_2]^{n+}$ (n = 1-3). K. R. Dunbar, S. C. Haefner and L. Pence, ACS Central Regional Meeting, John Carroll University, Ohio, 5/89.

Conference Papers (continued)

18. Synthesis, Spectroscopic Studies and Structure of an Unusual Dirhenium Complex With A Bridging Hydride Ligand. K. R. Dunbar and S. J. Chen, ACS Central Regional Meeting, John Carroll University, Ohio, 5/89.

19. Synthesis and Characterization of Fully Solvated Binuclear Rhodium Complexes. K. R. Dunbar and L. E. Pence, ACS Regional Meeting, John Carroll University, Ohio, 5/89.

20. Chemistry of an Unusual Bulky and Highly Basic Triarylphosphine. K. R. Dunbar, S. C. Haefner and L. E. Pence, Gordon Research Conference, Inorganic Chemistry, Brewster Academy, NH, 8/89.

21. A Series of Monomeric Rhodium Complexes Stabilized by an Identical Ligand Set: Preparation and Structural Characterization of $[Rh(TMPP)_2]^{n+}$ (n = 1-3). K. R. Dunbar, S. C. Haefner and L. E. Pence, 198th ACS National Meeting, Miami Beach, FL, 9/89.

22. Carbon Monoxide Binding To a Paramagnetic Rh(II) Phosphine Complex. K. R. Dunbar, and S. C. Haefner, 199th ACS National Meeting, Boston, MA, 4/90, 22nd ACS Central Regional Meeting, Saginaw, MI, 6/90.

23. Chemistry of Tris(2,4,6-trimethoxyphenyl)phosphine (TMPP) With Dirhodium Tetraacetate: Synthesis, Spectroscopic and Structural Characterization of $[Rh_2(\square\text{-}O_2CCH_3)_3(\square^3\text{-}\square\text{-TMPP})]^{0,1+}$. S. J. Chen and K. R. Dunbar, 199th ACS National Meeting, Boston, MA, 4/90.

24. Substitution Chemistry Of the Dirhodium (II,II) Decaacetonitrile Cation. K. R. Dunbar and L. E. Pence, 199th ACS National Meeting, Boston, MA, 4/90.

25. Synthesis and Reactivity of $(TMPP)Mo(CO)_3$ (TMPP = Tris(2,4,6-trimethoxyphenyl)phosphine). K. R. Dunbar and S. C. Haefner, 199th ACS National Meeting, Boston, MA, 4/90.

26. Chemistry of $FeCl_3$ With An Unusual Tertiary Phosphine in the Presence of Molecular Oxygen. K. R. Dunbar, S. C. Haefner and A. Quillevéré, 199th ACS National Meeting, Boston, Massachusetts, 4/90, 22nd ACS Central Regional Meeting, Saginaw, MI, 6/90.

27. Synthesis of Low-Dimensional Solids From Metal-Metal Bonded Precursors. S. L. Bartley, K. R. Dunbar, and L. E. Pence, 199th ACS National Meeting, Boston, Massachusetts, 4/90, 22nd ACS Central Regional Meeting, Saginaw, MI, 6/90.

28. Reactions of Trinuclear Carbonyl Clusters With Tris(2,4,6-trimethoxyphenyl)phosphine. S. J. Chen and
K. R. Dunbar, 199th ACS National Meeting, Boston, Massachusetts, 4/90, 22nd ACS Central Regional Meeting, Saginaw, MI, 6/90.

29. Synthesis and Characterization of Novel Solvated Transition Metal Species. K. R. Dunbar, L. E. Pence, and A. Quillevéré, 199th ACS National Meeting, Boston, Massachusetts, 4/90, 22nd ACS Central Regional Meeting, Saginaw, MI, 6/90.

30. Photodissociation and Redox Reactivity of the Rh-Rh Bond in $[Rh_2(NCCH_3)_{10}]^{4+}$. Reversible Photochemistry on the Kilosecond Timescale. W.H. Woodruff, D. E. Morris, K. R. Dunbar, L. E. Pence, R. J. Donohoe, and C. A. Arrington, Jr., 200th ACS National Meeting, Washington, D.C., 8/90.

31. Binding of 2-2'-Bipyridine to Binuclear Tetra-Carboxylate Complexes of Mo, Ru and Rh. John Matonic, Spiros P. Perlepes, John C. Huffman, Kim R. Dunbar and George Christou, 201st ACS National Meeting, Atlanta, GA, 4/91.

32. Chemistry of Trinuclear Carbonyl Clusters with Tris(2,4,6-Trimethoxyphenyl)Phosphine. Sue-Jane Chen, and Kim R. Dunbar, 201st ACS National Meeting, Atlanta, GA, 4/91.

33. Synthesis of Novel Square Planar d^7 Complexes of Rhodium with Phosphine and Isocyanide Ligands. Kim R. Dunbar and Steven C. Haefner, 201st ACS National Meeting, Atlanta, GA, 4/91.

Conference Papers (continued)

34. Synthesis and Reactivity of Homoleptic Acetonitrile Complexes of Rhodium and Iridium. Kim R. Dunbar and Laura E. Pence, 201st ACS National Meeting, Atlanta, GA, 4/91.

35. A Highly Basic Bridging Phosphino-Phenoxide Ligand Derived from Tris(2,4,6-Trimethoxyphenyl) Phosphine: Reactivity with Dimeric Carboxylate Complexes. Sue-Jane Chen and Kim R. Dunbar, 201st ACS National Meeting, Atlanta, GA, 4/91.

36. Synthesis of Conducting Materials from Binuclear Metal-Metal Bonded Precursors. Stuart L. Bartley, Kim R. Dunbar and Hoa Van Nguyen, 201st ACS National Meeting, Atlanta, GA, 4/91.

37. Reactions of Tris(2,4,6-Trimethoxyphenyl)Phosphine with $[M(NCCH_3)_6]^{2+}$ (M=Fe,Mn,Co) and Subsequent Small Molecule Chemistry. Kim R. Dunbar and Anne Quillevéré, 201st ACS National Meeting, Atlanta, GA, 4/91.

38. Binding of 2,2'-Bipyridine to the Dirhodium (II) Tetraacetate Core: Unusual Structural Features and Biological Relevance of the Product $Rh_2(OAc)_4(bpy)$. S. P. Perlepes, J. C. Huffman, J. H. Matonic, K. R. Dunbar and G. Christou, Great Lakes College Chemistry Conference, Michigan State University, 4/91.

39. Synthesis of Soft Salts From Metal-Metal Bonded Binuclear Ions: Structure and Properties of $[Rh_2(O_2CCH_3)_2(NCCH_3)_6][Re_2Cl_8]$. J. L. Clements, K. R. Dunbar, L. E. Pence, Great Lakes College Chemistry Conference, Michigan State University, 4/91.

40. Binding of 2,2'-Bipyridine to the Dirhodium (II) Tetraacetate Core: Unusual Structural Features and Biological Relevance of the Product $Rh_2(OAc)_4(bpy)$. S. P. Perlepes, J. C. Huffman, J. H. Matonic, K. R. Dunbar and G. Christou, Inorganic Gordon Conference, Brewster Academy, 8/91.

41. Towards the Synthesis of Polymeric Materials From Metal-Metal Bonded Precursors: Hybrid Charge-Transfer Complexes With Covalently Linked Donors and Acceptors. Stuart L. Bartley and K. R. Dunbar, Inorganic Gordon Conference, Brewster Academy, 8/91.

42. Chemistry of Ether-Phosphines With 3d Metals: X-Ray Structure, Electrochemistry and Reactivity of $[Co(TMPP\text{-}O)_2]$ (TMPP-*O* = Oxygen Metallated Tris-(2,4,6-Trimethoxyphenyl)Phosphine). K. R. Dunbar and Anne Quillevéré, Inorganic Gordon Conference, Brewster Academy, 8/91.

43. Synthesis and Reactivity of a Series of Novel Monomeric d^7 Rhodium Complexes Stabilized by a Multifunctionalized Ether Phosphine Ligand. Steven C. Haefner and Kim R. Dunbar, Inorganic Gordon Conference, Brewster Academy, 8/91.

44. Reactions of 2-2'-Bipyridine With Binuclear Tetra-Carboxylates of 4d Metals and Their Biological Significance. S. P. Perlepes, J. C. Huffman, J. H. Matonic, K. R. Dunbar and G. Christou, International Conference on Bioinorganic Chemistry, Oxford, England, 8/91.

45. Oxygenation Reactions of the Electron-Rich Triple Bond. Keng-Yu Shih, R. A. Walton, S. L. Bartley, and K. R. Dunbar, 203rd ACS National Meeting, San Francisco, CA, 4/92.

46. Stereospecific Interactions of Tetrakis (□-Carboxylato) Dirhodium(II), an Antitumor Agent, with Azathioprine, a Biologically Active Mercaptopurine Derivative. Helen T. Chifotides, Kim R. Dunbar, Nikos Katsaros, John H. Matonic, and George Pneumatikakis, 203rd ACS National Meeting, San Francisco, CA, 4/92.

47. Synthesis of the Triply-Bonded Solvated Cation $[Re_2(NCCH_3)_{10}]^{4+}$ from $Re_2(O_2CC_3H_7)_4Cl_2$ and $[Re_2Cl_8]^{2-}$: Characterization of the $[BF_4]^-$ and $[Mo_6O_{19}]^{2-}$ Salts. Stuart L. Bartley, Stacey N. Bernstein, Renée C. Cooper, Kim R. Dunbar, Steven C. Haefner, Laura E. Pence, and Anne Quillevéré. 203rd ACS National Meeting, San Francisco, CA, 4/92.

48. Reactions of Solvated Cations with Tris(2,4,6-trimethoxyphenyl)phosphine: Characterization of Co(II) and Ni(II) Phosphino-Phenoxide Complexes. Kim R. Dunbar and Anne Quillevéré, 203rd ACS National Meeting, San Francisco, CA, 4/92.

Conference Papers (continued)

49. Chemistry of Fe(II) and Fe(III) with Tris(2,4,6-trimethoxyphenyl) Phosphine (TMPP): Formation of a Phosphine Oxide Adduct of $FeCl_3$ via Quaternarization of TMPP. Kim R. Dunbar and Anne Quillevéré. 203rd ACS National Meeting, San Francisco, CA, 4/92.

50. Synthesis and Reactivity of a Novel Mononuclear Rh^{II} Complex Stabilized by a Phosphino-phenoxide Ligand. Kim R. Dunbar and Steven C. Haefner, 203rd ACS National Meeting, San Francisco, CA, 4/92.

51. Synthesis of Novel Mixed-Metal Oxide Materials from Dinuclear Homoleptic Acetonitrile Precursors. Stacey N. Bernstein and Kim R. Dunbar, 203rd ACS National Meeting, San Francisco, CA, 4/92.

52. Chemistry of an Unusual Ether-Phosphine Ligand With 3d Metals. Anne Quillevéré. And Kim R. Dunbar, 29th International Conference on Coordination Chemistry, Lausanne, Switzerland, 7/92.

53. Stereospecific Interactions of Tetrakis (□-Carboxylato) Dirhodium(II), an Antitumor Agent, with Azathioprine, a Biologically Active Mercaptopurine Derivative. Helen T. Chifotides, Kim R. Dunbar, Nikos Katsaros, John H. Matonic, and George Pneumatikakis, 29th International Conference on Coordination Chemistry, Lausanne, Switzerland, 7/92.

54. Non-Planar □-Donor Molecules With Several Redox Centers Built Around a Main-Group Element (Hg, Si P): A Novel Approach to Organic Conductors. M. Fourmigué, Y. S. Huang, S. Jarschow, P. Batail, S. L. Bartley, K. R. Dunbar, XII International Conference on Phosphorus Chemistry, Toulouse, France, 7/92.

55. Inorganic Models for the Biological Activity of Rhodium(II) Carboxylates. C.A. Crawford, S.P. Perlepes, W. E. Streib, J. C. Huffmann and G. Christou, 204th ACS National Meeting, Washington, D.C., 8/92.

56. Structural Evidence for a New Binding Mode for Guanine Bases: Implications for the Binding of Dinuclear Anti-Tumor Agents to DNA. K. R. Dunbar, John. H. Matonic, Charles A. Crawford, George Christou, 205th ACS National Meeting, Denver, CO, 4/93.

57. Possible Intermediates in the Photochemistry of $[Rh_2(NCR)_{10}][BF_4]_4$ (R = Me, Et). K. R. Dunbar, G. M. Finniss and L. E. Pence, 206th ACS National Meeting, Chicago, IL, 8/93.

58. Reactions of Tris(2,4,6-trimethoxyphenyl)phosphine with Dirhodium Tetraacetate. Kim R. Dunbar and Vijay P. Saharan, 206th ACS National Meeting, Chicago, IL, 8/93.

59. The Synthesis of Polymeric Frameworks from Homoleptic Metal-Metal Bonded Cyanide Complexes. S. L. Bartley and K. R. Dunbar, 206th ACS National Meeting, Chicago, IL, 8/93.

60. Reactivity Studies of the Fluxional Complexes $(TMPP)M(CO)_3$ (M = Mo, W). Kim R. Dunbar and Jui-Sui Sun, 206th ACS National Meeting, Chicago, IL, 8/93.

61. Syntheses and Reactivity Studies of Homoleptic Acetonitrile Complexes Possessing Metal-Metal Bonds. Stacey N. Bernstein and K. R. Dunbar, 206th ACS National Meeting, Chicago, IL, 8/93.

62. The Interaction of Dinuclear Rhodium (II) Complexes With Nitrogen Donor Ligands of Biological Relevance. K.R. Dunbar, J. H. Matonic, V. P. Saharan, C. A. Crawford and G. Christou, Sixth International Conference on Bioinorganic Chemistry, La Jolla, CA, 8/93.

63. Reactions of Dinuclear Purines with Antitumor Active Dinuclear Compounds of Rhenium and Rhodium. K. V. Catalan, K. R. Dunbar and D. Mindiola, 208th ACS National Meeting, Washington, D.C., 8/94.

64. Interaction of Aromatic Nitrogen Donor Ligands with Solvated Dinuclear Cations $[M_2(NCMe)_{10}][BF_4]_4$ (M = Mo, Rh, Re). K. R. Dunbar and G. M. Finniss, 208th ACS National Meeting, Washington, D.C., 8/94.

Conference Papers (continued)

65. Synthesis and Reactivity of the Fluxional Rh(I) Phosphine Complex $[Rh(TMPP)_2][BF_4]$. K. R. Dunbar, A. D. Howard and C. E. Uzelmeier, 208th ACS National Meeting, Washington, D.C., 8/94.

66. Use of M-M Bonded Molecular Precursors in the Construction of Inorganic and Organometallic Solids. K. R. Dunbar, 208th ACS National Meeting, Washington, D.C., 8/94.

67. New Polydentate Phosphine Ligands with Tetrathiafulvalene Substituents. Donald M. Baird, Stuart L. Bartley, Patrick Batail, Kim R. Dunbar, Marc Fourmigué, Julia Meinershagen, Sarah C. Olson, and Calvin E. Uzelmeier, Southeast Regional ACS Meeting, Birmingham, AL, 10/94.

68. Magnetic Studies of Polynuclear Iron(II) Complexes and their Application to the Synthesis of Extended Structures. K. R. Dunbar and Alice Sun, International Conference on Molecule Based Magnets, Salt Lake City, UT, 10/94.

69. Paramagnetic Transition Metal Complexes With □-Bonded Tetracyanoethylene (TCNE). Kim R. Dunbar and Xiang Ouyang, International Conference on Molecule Based Magnets, Salt Lake City, UT, 10/94.

70. New Polydentate Phosphine Ligands with Tetrathiafulvalene Substituents. Donald M. Baird, Stuart L. Bartley, Patrick Batail, Kim R. Dunbar, Marc Fourmigué, Julia Meinershagen, Sarah C. Olson, and Calvin E. Uzelmeier, 209th ACS National Meeting, Anaheim, CA, 04/95.

71. Novel Tetrathiafulvalene Donors with Tertiary Phosphine Substituents. Stuart L. Bartley, Patrick Batail, Kim R. Dunbar, Marc Fourmigué, Julia Meinershagen and Calvin E. Uzelmeier, 27th Central Regional Meeting, Akron, OH, 05/95.

72. Unprecedented Metal-DNA Binding for Dimetal Complexes: Implications for Antitumor Activity. Kemal Catalan. Kim R. Dunbar, John H. Matonic and Daniel J. Mindiola, 27th Central Regional Meeting, Akron, OH, 05/95.

73. Synthesis and Single Crystal X-ray Studies of Dirhodium Complexes with DNA Purines. Kemal V. Catalan, Helen T. Chifotides, Kim R. Dunbar and Daniel J. Mindiola, 22nd Annual National Conference of the National Organization of Black Chemists and Chemical Engineers, Los Angeles, CA, April 17-21, 1995.

74. Reactivity Studies of Dirhenium Carboxylate and Formamidinate Complexes with DNA Purines. K. V. Catalan, H. T. Chifotides, K. R. Dunbar and D. J. Mindiola, 210th ACS National Meeting, Chicago, IL, 8/94.

75. Low-Valent Homoleptic and Mixed-Ligand Cyanide Complexes with Metal-Metal Bonding. S. L. Baker, S. L. Bartley and K. R. Dunbar, 210 th ACS National Meeting, Chicago, IL, 8/94.

76. Polymeric Materials Comprised of Dinuclear Metal Complexes and Polycyano ligands. S. L. Bartley, K. R. Dunbar and X. Ouyang, 210th ACS National Meeting, Chicago, IL, 8/94.

77. High-Spin Clusters of Fe(II) and Mn(II) as Building Blocks for Magnetic Materials. K. R. Dunbar, S. O. Majors, W. Reiff and J.S.- Sun, NATO workshop on "Magnetism: A Supramolecular Function," September 16-20, 1995.

78. Extended Arrays of Paramagnetic Transition Metal Complexes Bridged by □-Bonded Organocyanide Acceptor Molecules. Kim R. Dunbar and Xiang Ouyang, NATO workshop on "Magnetism: A Supramolecular Function" September 16-20, 1995.

79. Extended Arrays of Paramagnetic Transition Metal Complexes Bridged by □-Bonded Organocyanide Acceptor Molecules. Kim R. Dunbar and Xiang Ouyang, Symposium on "Molecular Based Magnetic Materials," Pacifichem '95, Honolulu, HI, December 17-22, 1995.

80. Magnetic Studies of Polynuclear Iron(II) Complexes and their Application to the Synthesis of Extended Structures. K. R. Dunbar and Alice Sun, Symposium on "Molecular Based Magnetic Materials" Pacifichem '95, Honolulu, HI, December 17-22, 1995.

Conference Papers (continued)

81. Reactions of Dirhodium Formamidinate Complexes with 9-Ethyladenine (9-EtAH) and 9-Ethylguanine (9-EtGH). Kemal V. Catalan and Kim R. Dunbar, 211th ACS National Meeting, New Orleans, LA, March 24-28, 1996.

82. Binary Compounds of the Type $M(TCNQ)_2$ (M = Cr, Mn, Fe, Co, Ni): Magnetism, Conductivity and X-ray Structural Studies. Kim R. Dunbar, Z. Hanhua, and Robert V. Heintz, 211th ACS National Meeting, New Orleans, LA, March 24-28, 1996.

83. Novel Phosphines with Tetrathiafulvalene Substituents. S. L. Bartley, P. Batail, K. R. Dunbar, M. Fourmigué, C. E. Uzelmeir and J. L. Meinershagen, 211th ACS National Meeting, New Orleans, LA, March 24-28, 1996.

84. Ordered Arrays of Metals with Nitrile or Cyanide Ligands. Kim R. Dunbar, 31st International Cordination Chemistry Conference, Vancouver, August 18, 1996.

85. Magnetic and Conducting Solids with Transition Metals and Nitrile Ligands. Kim R. Dunbar, Materials Research Society, Boston, MA, December 2-6, 1996.

86. Ordered Arrays of Transition Metals with Polynitrile Donors: Structural, Electronic and Magnetic Properties. Kim R. Dunbar, Gary M. Finniss, Robert A. Heintz and Hanhua Zhao, 213th ACS National Meeting, San Francisco, CA, April 14, 1997.

87. Synthesis, Structure and Properties of $M(TCNQ)_2$ Materials. Kim R. Dunbar, Hanhua Zhao, Robert A. Heintz and Giulio Grandinetti, Symposium: The Center For Fundamental Materials Research, Michigan State University, April 21, 1997.

88. Phosphine-Functionalized Tetrathiafulvalenes as Precursors to Redox-Active Inorganic-Organic Extended Materials. Calvin E. Uzelmeier, Kim R. Dunbar, Marc Fourmigué and Giulio Grandinetti, Symposium: The Center For Fundamental Materials Research, Michigan State University, April 21, 1997.

89. Design and Synthesis of Inorganic/Organic "Hybrid" Materials with Polynitrile Ligands. X. Ouyang and Kim R. Dunbar, Symposium: The Center For Fundamental Materials Research, Michigan State University, April 21, 1997.

90. Synthesis, Structure, Magnetic and Electrical Properties of Cu(TCNQ). Giulio Grandinetti, Hanhua Zhao, Jerry A. Cowen and Kim R. Dunbar, Symposium: The Center For Fundamental Materials Research, Michigan State University, April 21, 1997.

91. Molecular Routes to One, Two and Three-Dimensional Arrays of Metals with C□N and N□C Based Ligands. Kim R. Dunbar, Stuart L. Bartley, Gary M. Finniss, Xiang Ouyang, Paul S. Szalay and Hanhua Zhao, ACS 29th Central Regional Meeting, Midland MI, "Triple Bonds in Materials Science," May 27-30, 1997.

92. New Insights into Films and Crystals of 3d Transition Metal Containing Polymers of TCNQ: Structural, Electrical and Magnetic Properties. Kim R. Dunbar, Jerry A. Cowen, Giulio Grandinetti, Robert A. Heintz and Hanhua Zhao, ACS Great Lakes Regional Meeting, Loyola University, Chicago, "Symposium on Advances in Materials Science," May 27-30, 1997.

Conference Papers (continued)

93. ^{1}H NMR Spectroscopic Studies of Dinuclear Transition Metal Carboxylates with DNA Oligonucleotides. E. Lozada, K. R. Dunbar, L. Bickerstaff, K. D. Bishop and K. V. Catalan, 17th International Congress of Biochemistry and Molecular Biology and the 1997 Annual Meeting of the American Society for Biochemistry and Molecular Biology, San Francisco, CA, August 24-29, 1997.

94. Interactions of Dinuclear Transition Metal Carboxylates with DNA. K. V. Catalan, K. R. Dunbar, L. Bickerstaff, K. D. Bishop and E. Lozada, 17th International Congress of Biochemistry and Molecular Biology and the 1997 Annual Meeting of the American Society for Biochemistry and Molecular Biology, San Francisco, CA, August 24-29, 1997.

95. Unusual Twinning in the Crystal Stuctures of Two Structures of Two Polymorphs of Cu(TCNQ): The Role of TCNQ Radical Stacking in Dictating the Electrical Properties of This Unusual Material. X. Ouyang, Hanhua Zhao, Guilio Grandinetti, Jerry Cowen and Kim R. Dunbar, Annual MIT/Bruker Symposium, January 31, 1998 (tied for 1st place).

96. The Use of Nitrile and Cyanide Ligands to Synthesize Extended Arrays of Metal-Metal Bonds. Stuart L. Bartley, Kim R. Dunbar, Gary M. Finniss, Xiang Ouyang, Paul S. Szalay, 215th ACS National Meeting, Dallas, TX, April 1, 1998.

97. Magnetic and Semiconducting Properties of $M(TCNQ)_2$ where M is Mn, Fe, CO and Ni. K. R. Dunbar, J. A. Cowen, G. Grandinetti, Robert A. Heintz and X. Ouyang, Symposium: The Center For Fundamental Materials Research, Michigan State University, March 2, 1998.

98. Unusual Twinning in the Crystal Structures of Two Structures of Two Polymorphs of Cu(TCNQ): The Role of TCNQ Radical Stacking in Dictating the Electrical Properties of This Unusual Material. X. Ouyang, Hanhua Zhao, Guilio Grandinetti, Jerry Cowen and Kim R. Dunbar, The Center For Fundamental Materials Research, Michigan State University, March 2, 1998.

99. The Use of Nitrile and Cyanide Ligands to Synthesize Extended Arrays of Metal-Metal Bonds. Kim R. Dunbar, Xiang Ouyang, Gary Finniss and Paul Szalay, *Cotton Priestley Medal Symposium*, 215th ACS National Meeting, Dallas, TX, April 1, 1998.

100. Extended Arrays with Transition Metals Coordinated to Organic Donors and Acceptors: Putting a New Spin on Organic Charge-Transfer Salts. Kim R. Dunbar, Robert Heintz, X. Ouyang, Calvin Uzelmeier and Hanhua Zhao, Plenary Lecture, *33rd International Conference on Coordination Chemistry*, Florence, Italy, September 3, 1998.

101. The Use of Organic Donors and Acceptors as Ligands for Paramagnetic Metal Centers: A New Spin on Organic Charge Transfer Salts. Kim R. Dunbar, Jerry Cowen, Robert Heintz, X. Ouyang, Hanhua Zhao, Keynote Lecture, Vith International Conference on Molecule-Based Magnets, Seignosse Le Penon, France, September 12, 1998.

102. Building Block Approach to Open-Shell Molecules and Arrays with Nitrogen and Phosphorus Donor Ligands. Kim R. Dunbar, First European Workshop on "Design, Synthesis, and Supramolecular Chemistry of Open-Shell Materials" Training and Mobility of Researchers, Sitges, Spain, March 5-7, 1999.

103. Use of Polypyridyl Ligands in the Formation of Extended paramagnetic Arrays. Cristian S. Campos and Kim R. Dunbar, Invited Lecture, ACS Symposium *Synthesis of New Materials by Coordination Chemistry, Self-Assembly and Template Formation*, Anaheim, CA, March 21-25, 1999.

Conference Papers (continued)

104. Molecular Assemblies based on Octahedral Metal Ions. Jennifer A. Smith, Paul S. Szalay and Kim R. Dunbar, *Symposium, ACS Award in Inorganic Chemistry*, Anaheim, CA, March 21-25, 1999.

105. Polypyridine and Cyanide Compounds of Transition Metals that Exhibit Metal-Metal Bonding. Cristian S. Campos, Paul S. Szalay and Kim R. Dunbar*, Symposium, ACS Award for Distinguished Service to Inorganic Chemistry*, Anaheim, CA, March 21-25, 1999.

106. Clusters and Extended Arrays with Paramagnetic Metal Ions and Nitrogen Donor Ligands. Cristian S. Campos and Kim R. Dunbar*,* 218th National ACS Meeting, New Orleans, LA, August 22-26, 1999.

107. Novel Clusters and Materials Based on Paramagnetic Octahedral Metal Ions. Kim R. Dunbar, Paul S. Szalay, and Jennifer A. Smith, 218th National ACS Meeting, New Orleans, LA, August 22-26, 1999.

108. Convenient Access to Re(II) Compounds From Reduction of Re(III) Chlorides by Potassium Graphite (KC_8). Kim R. Dunbar and Matthew E. Prater, 218th National ACS Meeting, New Orleans, LA, August 22-26, 1999.

109. Molecules and Extended Arrays with Redox-Active Ligands Based on Tetrathiafulvalene. Kim R. Dunbar and Bradley W. Smucker, 218th National ACS Meeting, New Orleans, LA, August 22-26, 1999.

110. A Building Block Approach to Magnetic Materials: From Mononuclear Complexes to Clusters, and Ultimately to Tailored Solids. Kim R. Dunbar *State-of-the-Art Symposium: Frontiers in Materials Based on Molecular Building Blocks*, ChED Division, 218th National ACS Meeting, New Orleans, LA, August 22-26, 1999.

111. Molecule-Based Magnetic Clusters and Arrays: How does the Chemistry relate to the Physics? Invited talk in Symposium for ACS Award in Materials Chemistry, Joel Miller. Kim R. Dunbar, 219th National ACS Meeting, San Francisco, CA, March 26-30, 2000.

112. Reactivity Studies of Antitumor Active Dirhodium Carboxylate Complexes with Sulfur-Containing Biomolecules. Karn Sorasaenee and Kim R. Dunbar, 219th National ACS Meeting, San Francisco, CA, March 26-30, 2000.

113. Bimetallic Assemblies Based on Hexacyanometallate Ions. Jennifer A. Smith and Kim R. Dunbar, 219th National ACS Meeting, San Francisco, CA, March 26-30, 2000.

114. Trigonal Assemblies Based on Octahedral Metal Ions. Kim R. Dunbar and Paul S. Szalay, 219th National ACS Meeting, San Francisco, CA, March 26-30, 2000.

115. Anion Template Effect in the Assembly of Molecular Squares. Cristian Campos, Rodolphe Clérac and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

116. Metal-Metal Bonded Assemblies of Dirhodium(II,II) and Diruthenium(II,II) with polycyano-acceptor Molecules. Hitoshi Miyasaka, Cristian Campos, Rodolphe Clérac, José-Ramon Galán-Mascarós and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

117. Molecule-Based Magnets from Oxalate-Bridged 3-D Bimetallic Networks. José-Ramon Galán-Mascarós, Eugenio Coronado, Carlos J. Gómez-García and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

Conference Papers (continued)

118. New Materials Based on Coordination Compounds: From Clusters to Polymeric Systems and from Paramagnetism to Spin-Glass Behavior. Rodolphe Clérac and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

119. Sulfur-Based Redox-Active Molecules as Ligands for Late Transition Metals: From Mononuclear Complexes to Extended Arrays. Bradley Smucker and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

120. Bimetallic Assemblies Based on Hexacyanometallate Building Blocks. Jennifer A. Smith, José-Ramon Galán-Mascarós, Rodolphe Clérac and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

121. New Crystalline Polymers of Ag(TCNQ) and Ag($TCNQF_4$): Structures and Magnetic Properties. Shannon O'Kane, Rodolphe Clérac, Hanhua Zhao, Xiang Ouyang, José-Ramon Galán-Mascarós, Robert A. Heintz and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

122. Synthesis and Reactivity of Transition Metal Acetonitrile Complexes. Matthew E. Prater and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

123. Molecular Assemblies and Materials Based on Transition Metal Coordination Compounds. Paul S. Szalay and Kim R. Dunbar, Contemporary Inorganic Chemistry II, Texas A&M University, College Station, TX, March 12-15, 2000.

124. Sulfur-Based Redox-Active Molecules as Ligands for Late Transition Metals: From Mononuclear Complexes to Extended Arrays. Bradley Smucker and Kim R. Dunbar, Gordon Research Conference on Inorganic Chemistry, July 23-27, 2000. First-Prize Poster Award.

125. Piano-Stool and BarF Precursors for the Cyanometallate Chemistry of Rhenium: A Directed Approach Towards Prussian Blue Type Structures of Rhenium(II). Eric J. Schelter and Kim R. Dunbar, Gordon Research Conference on Inorganic Chemistry, July 23-27, 2000.

126. Interactions of Anticancer Active Dirhodium Compounds with S-based Amino Acids and Mimics. Karn Sorasaenee and Kim R. Dunbar, IUCCP, Texas A&M University, September 19-20.2000.

127. Cyano-based Magnetic Clusters and Polymeric Arrays. Jennifer A. Smith, José Ramón Galán-Mascarós, Rodolphe Clérac and Kim R. Dunbar, IUCCP, Texas A&M University, September 19-20, 2000.

128. Control of the Ring Size of Paramagnetic metallaacyclophanes by the use of an Anion Template. Cristian Saul Campos-Fernández, Rodolphe Clérac, John M. Koomen, David H. Russell and Kim R. Dunbar ICMM 2000, San Antonio, TX, September 16-21, 2000.

129. Discrete and Extended Magnetic Arrays with Metals Coordinated to Triangular Nitrogen-Based Ligands. Paul Szalay, José Ramón Galán-Mascarós, Rodolphe Clérac and Kim R. Dunbar, ICMM 2000, San Antonio, TX, September 16-21, 2000.

130. New Cyano-based Bimetallic Molecular Architectures. Jennifer A. Smith, José Ramón Galán-Mascarós, Rodolphe Clérac and Kim R. Dunbar, ICMM 2000, San Antonio, TX, September 16-21, 2000.

Conference Papers (continued)

131. Extended Arrays with Redox-Active Nitrogen and Sulfur-Based Ligands. Bradley W. Smucker, Cristian Saul Campos-Fernández, Rodolphe Clérac and Kim R. Dunbar, ICMM 2000, San Antonio, TX, September 16-21, 2000.

132. Recent Discoveries in Magnetic Arrays Co-Assembled with Organic π-systems. Kim R. Dunbar, Mervin Bazile, Jr., Rodolphe Clérac, José Ramón Galán-Mascarós, Xiang Ouyang, Paul Szalay, Pacifichem 2000, Honolulu, HI, December 14-19, 2000.

133. Molecular squares, pentamers, decamers and more: Supramolecular approaches to new magnetic materials. Kim R. Dunbar, Cristian S. Campos-Fernández, Jennifer A. Smith, José Ramón Galán-Mascarós and Paul S. Szalay, Cotton Symposium, ACS Meeting, San Diego, CA, April 1-5, 2001.

134. Frontiers in Magnetism at the interface of Chemistry and Nanoscience. Kim R. Dunbar, Chemistry of Supramolecules and Assembilies Gordon Research Conference, New London, CT, July 29-August 3, 2001.

135. Spectroscopic and Molecular Modeling Studies of the Interactions of Dirhodium (II/II) Compounds with Nucleotides. Karn Sorasaenee, Helen Chifotides and Kim R. Dunbar, 10th International Conference on Bioinorganic Chemistry, Florence, Italy, August 26-31, 2001.

136. A New Class of Gigantic Anions: Lewis Acid Adducts of Hexcyanometallates with Boranes. Eric J. Schelter, José Ramón Galán-Mascarós, Brad W. Smucker and Kim R. Dunbar, IUCCP, October 1-3, 2001.

137. Syntheses of Novel Materials With Metals and the Organic Radical $TCNQ^{-\bullet}$. Mervin J. Bazile, Jr., Hanhua Zhao, José Ramón Galán-Mascarós, and Kim R. Dunbar, IUCCP, October 1-3, 2001.

138. Discrete Molecules Based on Prussian Blue Motifs. Curtis Berlinguette, Jennifer Smith, José Ramón Galán-Mascarós and Kim R. Dunbar, IUCCP, October 1-3, 2001.

139. Study of the Reactions of Oligonucleotides with Pt and Rh Compounds by Mass Spectrometry. Mijeong Kang, John M. Koomen, David H. Russell and Kim R. Dunbar, IUCCP, October 1-3, 2001.

140. New Magnetic Assemblies Based on Supramolecular Design Principles. Kim R. Dunbar, MOLNANOMAG, Paris, France, March 7-9, 2002.

141. Supramolecular Assemblies Involving Dimetal Building Unit. Jitendra Bera, Brad W. Smucker and Kim R. Dunbar, Orlando ACS Meeting, April 7-11, 2002.

142. Anion templates as convenient reagents for assembling paramagnetic architectures. Kim R. Dunbar, Cristian Campos and Jitendra Bera, Orlando ACS Meeting, April 7-11, 2002.

143. Building Block and Supramolecular Appraoches to Building Paramagnetic Architectures. Kim R. Dunbar, Cristian Campos, Jitendra Bera and John Koomen, 2002 IUCCP Board Meeting, College Station, TX, April 25, 2002.

144. Synthesis of Novel Materials Using Lanthanide Ions and the Organic Radial, TCNQ. Mervin J. Bazile, Jr., Hanhua Zhao, José Ramón Galán-Mascarós and Kim R. Dunbar, Boston ACS Meeting, August 18-22, 2002.

Conference Papers (continued)

145. Magnetic Phenomena of Cyanide-bridged Bimetallic Molecules. Curtis P. Berlinguette, José Ramón Galán-Mascarós and Kim R. Dunbar, Boston ACS Meeting, August 18-22, 2002.

146. New Anisotropic Precursors for the Preparation of Large Spin Metal-Cyanide Clusters. Eric J. Schelter, José Ramón Galán-Mascarós Jitendra K. Bera and Kim R. Dunbar, Boston ACS Meeting, August 18-22, 2002.

147. Synthesis of Novel Materials with Lanthanide Metals and the Organic Radial, $TCNQ^{-\bullet}$. Mervin J. Bazile, Jr., Hanhua Zhao, José Ramón Galán-Mascarós and Kim R. Dunbar, IUCCP, September 23-25, 2002. Received Distinguished Achievement Award for Outstanding Oral Presentation.

148. The Structure and Magnetic Properties of Bimetallic Cyanide Bridged Clusters. Curtis Berlinguette, José Ramón Galán-Mascarós and Kim R. Dunbar, IUCCP, September 23-25, 2002.

149. New Anisotropic Precursors for the Preparation of Large Spin Metal-Cyanide Clusters. Eric J. Schelter, José Ramón Galán-Mascarós, Jitendra K. Bera and Kim R. Dunbar, IUCCP, September 23-25, 2002. Received Distinguished Achievement Award for Outstanding Oral Presentation.

150. Solar Cell Dyes Based on Diimine-dithiolato Platinum(II) and Palladium(II) Complexes. Bradley W. Smucker, Mohammad A. Omary and Kim R. Dunbar, IUCCP, September 23-25, 2002.

151. Synthesis of Novel Materials with Lanthanide Metals and the Organic Radial, $TCNQ^{-\bullet}$. Mervin J. Bazile, Jr., Hanhua Zhao, José Ramón Galán-Mascarós and Kim R. Dunbar, ICMM 2002, Valencia, Spain, October 5-10, 2002.

152. Magnetic Phenomena of Cyanide-bridge Bimetallic Molecules. Curtis P. Berlinguette, José Ramón Galán-Mascarós and Kim R. Dunbar, ICMM 2002, Valencia, Spain, October 5-10, 2002.

153. Magnetic Molecules and Materials Based on Nitrogen-Containing Ligands. Mervin J. Bazile, Jr., Curtis P. Berlinguette, José Ramón Galán-Mascarós, Eric J. Schelter, Hanhua Zhao and Kim R. Dunbar, ICMM 2002, Valencia, Spain, October 5-10, 2002.

154. Molecule-Based Magnets of 3d Transition Metals with 2,2′-bibenzimidazole Ligands. José Ramón Galán-Mascarós and Kim R. Dunbar, ICMM 2002, Valencia, Spain, October 5-10, 2002.

155. New Anisotropic Precursors for the Preparation of Metal-Cyanide Clusters with Large Ground States. Eric J. Schelter, José Ramón Galán-Mascarós, Jitendra K. Bera and Kim R. Dunbar, ICMM 2002, Valencia, Spain, October 5-10, 2002.

156. Magnetic Properties of a Complex Re(II) Ion: Crystal Field Model, Jahn-Teller Effect. Kim R. Dunbar, Eric J. Schelter, Sergei M Ostrovsky, Vadim Yu. Mirovitsky, Andrew V. Palii and B.S. Tsukerblat, ICMM 2002, Valencia, Spain, October 5-10, 2002.

157. Molecular Nanomagnets: Magnetic and Electronic Properties of Novel Magnetic Nanostructures and Nanostructured Materials. Donald G. Naugle, Glenn Agnolet, Frank Albert Cotton, Kim R. Dunbar, Valery Pokrovsky and Joseph H. Ross, Jr., NSF Nanoscale Science and Engineering Grantees Conference, Arlington, VA, December 11-13, 2002.

Conference Papers (continued)

158. Matrix assisted pulsed laser deposition of Mn_{12} acetate molecular magnet films. V. Meenakshi, W. Teizer, K. D. D. Rathnayaka, D. Naugle, H. Zhao and K. Dunbar, American Physical Society Meeting, San Antonio, TX, March 3-7, 2003.

159. Pt(II) and Pd(II) Imine Complexes and Their Adducts with Nitrle Acceptors: Optoelectronic Properties and Potential Use as Solar Cell Dyes. Mohammad A. Omary, Josh M. Hudson, Bradley W. Smucker and Kim R. Dunbar, New Orleans ACS Meeting, March 22-27, 2003.

160. Single-Molecule Magnet Behavior in the Trigonal Bipyramidal Cyanide-Bridge Cluster, $\{[Mn^{III}(CN)_6]_2[Mn^{II}(tmphen)_2]_3\}$. Curtis P. Berlinguette, José Ramón Galán-Mascarós, Cristina Cañada-Vilalta and Kim R. Dunbar, NATO-ASI, Corfu, Greece, April 29-May 11, 2003.

161. High Spin Molecules and Extended Framework Solids Based on Cyanide-Containing Ligands. Hanhua Zhao, Curtis P. Berlinguette, Eric J. Schelter, Mervin J. Bazile, José Ramón Galán-Mascarós and Kim R. Dunbar, NATO-ASI, Corfu, Greece, April 29-May 11, 2003.

162. Incorporating nisotropic Metal Ions Into Metal-Cyandie Clusters With Large Spin Ground States. Eric J. Schelter, Jitendra K. Bera, José Ramón Galán-Mascarós, John Bacsa and Kim R. Dunbar, NATO-ASI, Corfu, Greece, April 29-May 11, 2003.

163. The origin of strong temperature independent paramagnetism of trigonal low-spin Re(II) complexes. Kim R. Dunbar, Eric J. Schelter, Andrew V. Palii, Sergei M. Ostrovsky, Vadim Yu. Mirovitsky, Sophia I. Klokishner, and Boris S. Tsukerblat, EMRS Symposium, Strasbourg, France, June 10-13, 2003.

164. Molecular Magnetism: From Nanomagnets to Extended Solids. Kim R. Dunbar, Inorganic Chemistry Gordon Research Conference, Newport, RI, July 13-18, 2003.

165. Building Block Approaches to Magnetic Materials. Kim R. Dunbar, George Christou's 50th Birthday Symposium, Gainesville, FL, July 25-27, 2003.

166. Structures and Magnetic Properties of Some New Transition Metal Cluster Complexes. John Bacsa, Hanhua Zhao, Eric J. Schelter and Kim R. Dunbar, 2003 ACA Meeting, Newport, KT, July 26-31, 2003.

167. Novel Binding Interactions of the DNA Fragments d(GpG) and d(ApA) Bound to the Antitumor Active Compound Tetrakis(μ-N,N′-di-p-tolylformamidinato)dirhodium(II). Helen T. Chifotides and K.R. Dunbar, New York ACS Meeting, September 7-11, 2003.

168. Synthesis of Novel Dirhodium(II/II) Complexes and Study of Their DNA-Photocleaving Properties. Alfredo M. Angeles-Boza, Patricia M. Bradley, Claudia Turro and Kim R. Dunbar, New York ACS Meeting, September 7-11, 2003.

169. A Rare Example of High Spin Co(III): Spin-Crossover Behavior of the Cluster $\{[Co(tmphen)_2]_3[Fe(CN)_6]_2\}$. Curtis P. Berlinguette, Catalina L. Achim, Andreas Sieber, Hans-Ulrich Güdel, José Ramón Galán-Mascarós and Kim R. Dunbar, New York ACS Meeting, September 7-11, 2003.

170. Two-dimensional magnetic architectures with bridging polynitrile and bipyrimidine ligands. José Ramón Galán-Mascarós, Franck Thétiot, Smail Triki, Jean Sala Pala and K.R. Dunbar, ISCOM 2003, France, September 21-26, 2003.

Conference Papers (continued)

171. Molecular Magnetism: From Nanomagnets to Extended Solids. Kim R. Dunbar, Yale University, New Haven, CT, October 9, 2003.

172. Assembly of New Magnetic Materials Based on Organocyanide Acceptor Molecules Coordinated to Metal Ions. Mervin J. Bazile, Jr., seminar to undergraduates and faculty at Southeastern Louisiana University for recruitment purposes, Hammond, LA, October 10, 2003.

173. Chemistry and Characterization of Prussian Blue and Related Compounds. Kim R. Dunbar, The Food and Drug Administration, Rockville, MD, October 14, 2003.

174. An Unprecedented Charge Transfer Spin Transition in the μ-CN^- Cluster $\{[Co(tmphen)_2]_3[Fe(CN)_6]_2\}$. Curtis P. Berlinguette, Alina Dragulesco-Andrassi, Catalina Achim and Kim R. Dunbar, IUCCP, October 13-15, 2003. Received Distinguished Achievement Award for Outstanding Oral Presentation.

175. Inhibition of Key Enzymes of the Cellular Cycle By Second Generation of Dirhodium (II/II) Complexes. Jessica Dafhne Aguirre, Alfredo M. Angeles-Boza, Patricia M. Bradley, Claudia Turro and Kim R. Dunbar, IUCCP, October 13-15, 2003.

176. DNA Binding and Photocleavage in vitro by Novel dppz Dirhodium (II,II) Complexes and Correlation to Their Cytotoxicity and photocytoxicity to Human Skin Cells. Alfredo Angeles-Boza, Patricia M. Bradley, Patty K.-L. Fu, John Bacsa, Claudia Turro and Kim R. Dunbar, IUCCP, October 13-15, 2003.

177. Building Block Approaches to Magnetic Materials. Kim R. Dunbar, NSF Workshop on Reticular Chemistry 2003, San Diego, CA, November 20-23, 2003.

178. Building Block Approaches to Magnetic Materials. Kim R. Dunbar, Germany Lecture Tour, Universities of Goettingen, Muenster, Bielefeld, Muelheim and Karlsruhe, November 29-December 9, 2003.

179. Unusual Magnetism of Mixed-Ligand Re(II) Complexes: *jj*-Crystal Field Coupling Scheme, Jahn-Teller Effect. Kim R. Dunbar, Eric J. Schelter, Andrei V. Palii, Sergei M. Ostovsky, Vadim Yu. Mirovitskii, Joshua M. Hudson, Mohammad A. Omary, Sophia I. Klokishner and Boris S. Tsukerblat, The 69th Meeting of the Israel Chemical Society, Tel-Aviv, Israel, February 2-3, 2004.

180. Magnetic properties of Mn_{12} acetate films: Evidence for cluster glassy magnets? V. Meenakshi, W. Teizer, D. G. Naugle, H. Zhao and K. R. Dunbar, American Physical Society Meeting, Montreal, Canada, March 22-26, 2004.

181. Fabrication of Mn_{12}-acetate Molecular Magnet Thin Films by the Dip-and-Dry Method. D. M. Seo, M. Viswanathan, W. Teizer, H. Zhao and K. R. Dunbar, American Physical Society Meeting, Montreal, Canada, March 22-26, 2004.

182. Pulsed Laser Deposition of Mn_{12}-acetate Films using a Nitrogen Laser. J. Means, R. Srivastava, V. Meenakshi, W. Teizer, H. Zhao, K. Dunbar, Al. A. Kolomenskii and H.A. Scheussler, American Physical Society Meeting, Montreal, Canada, March 22-26, 2004.

183. Magnetic properties of Mn_{12}-acetate films. V. Meenakshi, W. Teizer, D.G. Naugle, H. Zhao and K.R. Dunbar, American Physical Society Meeting, Montreal, Canada, March 22-26, 2004.

Conference Papers (continued)

184. Using Prussian blue analogs as precursors to Mn-oxides and the design of higher solubility SMM's. Carolina Avendano, Curtis P. Berlinguette and Kim R. Dunbar, Anaheim ACS Meeting, March 28-April 1, 2004.

185. Step-wise assembly of trimetallic μ-CN-paramagnetic chains based on the trigonal bipyramidal building block. Kristen E. Chambers, Curtis P. Berlinguette and Kim R. Dunbar, Anaheim ACS Meeting, March 28-April 1, 2004.

186. A systematic design of efficient solar cell dyes based on d8 complexes with imine and thiolate ligands. Mohammad Omary, Joshua M. Hudson, Eric W. Reinheimer and Kim R. Dunbar, Anaheim ACS Meeting, March 28-April 1, 2004.

187. Novel supramolecular stacks assembled from inorganic ddonor complexes and organic acceptor molecules. Eric W. Reinheimer, Joshua M. Hudson, Kim R. Dunbar and Mohammad A. Omary, Anaheim ACS Meeting, March 28-April 1, 2004.

188. DNA-binding studies of potential anticancer rhodium compounds. Szymon Mikulski, Shari U. Dunham, Amity E. Burr, Helen Chifotides and Kim R. Dunbar, Anaheim ACS Meeting, March 28-April 21, 2004.

189. Building Block Approaches to Nanomagnetic Materials. Kim R. Dunbar, NSF Workshop, "Foundations of Nanoscience: Self-assembled Architectures and Devices," Snowbird, UT, April 21-23, 2004.

190. Novel Interactions of the DNA Fragments d(ApA) and d(GpA) Bound to the Antitumor Active Compound Tetrakis(μ-N,N′-di-*p*-tolylformamidinato)dirhodium(II,II). Helen T. Chifotides and K.R. Dunbar, "Metals in Medicine" Gordon Conference, Colby College, Maine, June 13-18, 2004.

191. Photocleavage *in vitro* by Novel dppz Dirhodium (II/II) Complexes and Correlation to Their Cytotoxicity and Photocytotoxicity to Human Skin Cells. Angeles-Boza, Alfredo M.; Bradley, Patricia M.; Fu, Patty K.-L.; Bacsa, John; Turro, Claudia and Dunbar, Kim R., 36th ICCC, Merida, Mexico, July 18-23, 2004.

192. Effect of Axial Position of Dirhodium (II,II) Complexes on the Mechanism of Transcription Inhibition *in Vitro*. Jessica Dafhne Aguirre, Patricia M. Bradley, Claudia Turro and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004.

193. Effect of Dirhodium (II,II) Formamidinate Complexes on Transcription In hibition *in Vitro*. Helen T. Chifotides, Claudia Turro and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004.

194. Synthesis, Characterization and Magnetic Properties of Cyandie-Bridged Tetranuclear Molecules. Ferdi Karadas, Eric J. Schelter, John Bacsa, Andrew Prosvirin and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004. Received outstanding poster for the d- and f- element chemistry session.

195. Supramolecular Donor/Acceptor Stacks Containing Pt(Diimine)(Dithiolate) and Organic Molecules As Photosensitizing Solar Cell Dyes. Eric W. Reinheimer, Joshua M. Hudson, John Bacsa, Mohammed A. Omary and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004.

Conference Papers (continued)

196. The role of anions as templates in supramolecular coordination chemistry. Brandi L. Schottel, John Bacsa, Lisa M. Pérez, Jitendra K. Bera and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004.

197. Structures and properties of complexes formed by 1,4,5,8,9,12-hexaazatriphenylene with the first row transition metals. Mikhail Shatruk, Abdellatif Chouai, Andrey V. Prosvirin and Kim R. Dunbar, 36th ICCC, Merida, Mexico, July 18-23, 2004.

198. Building Block Approaches to Molecular Nanomagnets. Kim Dunbar, John Bacsa, Curtis P. Berlinguette, Kristen Chambers, Ferdi Karadas, Andrew Prosvirin and Eric J. Schelter, 36th ICCC, Merida, Mexico, July 18-23, 2004.

199. Photocleavage *in vitro* by Novel dppz Dirhodium (II/II) Complexes and Correlation to Their Cytotoxicity and Photocytotoxicity to Human Skin Cells. Angeles-Boza, Alfredo M.; Geise, Patricia; Fu, Patty K.-L.; Bacsa, John; Turro, Claudia and Dunbar, Kim R., Philadelphia ACS Meeting, August 21-26, 2004.

200. Single Molecule Magnet Mn_5-Cyanide-Control of the Magnetic Anisotropy. A.V. Palii, S.M. Ostrovsky, S.V. Kunitsky, S. I. Klokishner, B.S. Tsukerblat, J.R. Galán-Mascarós and K.R. Dunbar *Proc. of the* Third International Conference on Mathematical Modeling and Computer Simulation of Material Technologies, Ariel, Israel, September 6-10, 2004.

201. A Series of Lanthanide Based Materials: Syntheses, Structures and Magnetic Properties. Mervin J. Bazile, Jr., Hanhua Zhao, José Ramón Galán-Mascarós, John Bacsa and Kim R. Dunbar, ICMM 2004, Tsukuba, Japan, October 4-8, 2004.

202. Probing Anino-π Interactions in Self-Assembled Inorganic Architectures. Brandi Schottel, Lisa Perez, John Bacsa, Latif Chouai and Kim R. Dunbar, IUCCP, College Station, TX, October 18-20, 2004.

203. Toxicity and Phototoxicity to Human Skin Cells By Novel DPPZ Dirhodium(II/II) Complexes. Angeles-Boza, Alfredo M.; Geise, Patricia; Fu, Patty K.-L.; Bacsa, John; Turro, Claudia; Dunbar, Kim R., IUCCP, College Station, TX, October 18-20, 2004.

204. Building Block Aproach to Molecular Magnets Based on Cyanide-Bridged Paramagnetic Metal Centers. Michael Shatruk, Andrey V. Prosvirin and Kim R. Dunbar, IUCCP, College Station, TX, October 18-20, 2004.

205. A New Type of Single Chain Magnet Based on Spin Canting in an Antiferromagnetically coupled Co(II) Chain. Sun, Zhong-Ming; Prosvirin, Andrey; Zhao, Han-Hua; Mao, Jiang-Gao and Dunbar, Kim R.; 49th Annual Conference on Magnetism and Magnetic Materials, Jacksonville, FL, November 7-11, 2004.

206. Complexes of benzamidazole with the first row transition metals: mononuclear precursors fro molecule-based magnets. Mikhail Shatruk, Andrey V. Prosvirin and Kim R. Dunbar, 49th Annual Conference on Magnetism and Magnetic Materials, Jacksonville, FL, November 7-11, 2004.

207. Synthesis, Characterization and Magnetic Properties of Cyanide-Bridged Tetranuclear Molecules. Ferdi Karadas, Eric J. Schelter, John Bacsa, Andrew Prosvirin and Kim R. Dunbar, 49th Annual Conference on Magnetism and Magnetic Materials, Jacksonville, FL, November 7-11, 2004.

Conference Papers (continued)

208. Synthesis, characterization and magnet properties of cyanide-bridged tetranuclear clusters. Andrey V. Prosvirin, Hanhua Zhao, John Bacsa, Carolina Avendano and Kim R. Dunbar, San Diego ACS Meeting, March 13-17, 2005.

209. Building block approaches to molecular nanomagnets. Kim R. Dunbar, John Bacsa, Kristen E. Chambers, Curtis P. Berlinguette, Ferdi Karadas, Mikhail Shatruk and Eric J. Schelter, San Diego ACS Meeting, March 13-17, 2005.

210. One-dimensional compounds based on cyanide bridged 3d-4f transition metal backbones. Hanhua Zhao, Andrey V. Prosvirin, John Bacsa, Carolina Avendano and Kim R. Dunbar, San Diego ACS Meeting, March 13-17, 2005

211. A systematic study of cyanide-bridged trigonal bipyramidal clusters. Mikhail Shatruk, Andrey V. Prosvirin and Kim R. Dunbar, San Diego ACS Meeting, March 13-17, 2005.

212. Effect of the bridging groups of dirhodium (II,II) complexes on the efficiency of transcription inhibition in vitro. Helen Chifotides, Kim R. Dunbar and Claudia Turro, San Diego ACS Meeting, March 13-17, 2005.

213. Interactions of Dirhodium Biologically Active Complexes with DNA. Helen Chifotides and Kim R. Dunbar, Washington DC ACS Meeting, August 28-September 1, 2005.

214. Anion-π interactions as controlling elements in supramolecular chemistry. Brandi L. Schottel, Helen Chifotides, Mikhail Shatruk, John Bacsa, Lisa M. Perez, Latif Chouai and Kim R. Dunbar, Washington DC ACS Meeting, August 28-September 1, 2005.

215. Binding Interactions of the DNA Fragments d(ApG) and d(GpA) Bound to the Antitumor Active Unit Bix (*N,N′*-di-tolylformamidinato)dirhodium(II,II). Helen T. Chifotides and Kim R. Dunbar, Washington DC ACS Meeting, August 28-September 1, 2005.

216. ^{57}Fe Mössbauer and EPR study of a Co/Fe cluster with a charge-transfer-induced spin transition. Alina Dragulescu-Andrasi, Curtis P. Berlinguette, Kim R. Dunbar and Catalina Achim, Washington DC ACS Meeting, August 28-September 1, 2005.

217. Coordination Complexes of 1,4,5,8,9,12-Hexaazatriphenylene and its Hexacarbonitrile Derivative. Brandi L. Schottel, Mikhail Shatruk, Latif Chouai, José Ramón Galán-Mascarós, Andrey Prosvirin and Kim R. Dunbar, Washington DC ACS Meeting, August 28-September 1, 2005.

218. DNA photocleavage and base specificity of dirhodium (II,II) complexes. David B. Turner, Alfredo M. Angeles-Boza, Patty K.L. Fu, Kim R. Dunbar and Claudia Turro, Washington DC ACS Meeting, August 28-September 1, 2005.

219. Enhanced Magnetic Interactions Between Spin Doublet $Fe(CN)_6^{-3}$ Chromophores: Low Temperature Mössbauer Spectroscopy and Magnetic Ordering of $[Gd(H_2O)_2Fe(CN)_6]\cdot 2H_2O$. W.M. Reiff, H. Zhao, J. Bacsa, A. Prosvirin and K.R. Dunbar, International Conference on the Applications of the Mossbauer Effect (ICAME 2005), September 5-9, 2005, Montpellier, France.

Conference Papers (continued)

220. One-Dimensional Molecular Magnets: 3D-4F Heterometallic Coordination Polymers by Simultaneous Use of Hexacyanometalate Building-Blocking and Tridentate or Bidentate Ligands. Nazario Lopez, Hanhua Zhao, Andrey Prosvirin and Kim R. Dunbar, The Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Denver, CO, September 29-October 2, 2005.

221. Chemical Control of the DNA Light Switch ON and OFF. Abdellatif Chouai, Yal Liu, Natalya N. Degtyareva, Daniel A. Lutterman, Claudia Turro and Kim R. Dunbar, IUCCP, College Station, TX, October 17-19, 2005.

222. Anion-π interactions as controlling elements in supramolecular chemistry. Brandi L. Schottel, Helen Chifotides, Mikhail Shatruk, John Bacsa, Lisa M. Perez, Latif Chouai and Kim R. Dunbar, IUCCP, College Station, TX, October 17-19, 2005.

223. The formation of New Tetrathiafulvalene-Containing Complexes. Eric W. Reinheimer, José Ramón Galán-Mascarós and Kim R. Dunbar, IUCCP, College Station, TX, October 17-19, 2005. Received IUCCP Outstanding Poster Presentation in General Chemistry

224. Magnetic Studies of Molecules and Chains of Molecules with Strong Spin-Orbit Coupling Effects. Kim R. Dunbar, Pacifichem, Honolulu, HI, December 15-20, 2005.

225. Polynuclear cyanide-bridged clusters exhibiting spin-crossover behavior. Michael Shatruk, Kristen Chambers, Alina Dragulescu-Andrasi, Catalina Achim and Kim R. Dunbar, Atlanta ACS Meeting, March 26-30, 2006.

226. Excited state reactivitiy of dirhodium complexes: DNA binding, photocleavage, and photoinduced cytotoxicity. Claudia Turro, Daniel A. Lutterman, Yao Liu, Natalya N. Degtyareva, Abdellatif Chouai, Alfredo M. Angeles-Boza and Kim R. Dunbar, Atlanta ACS Meeting, March 26-30, 2006.

227. Anion-π Interactions in Supramolecular Chemistry. Brandi L. Schottel, Helen Chifotides, Mikhail Shatruk, Abdellatif Chouai, Lisa M. Perez and Kim R. Dunbar, 37th International Chemistry Coordination Conference 2006, Capetown, South Africa, August 12-17, 2006.

228. Molecular cyanide complexes with interesting magnetic, redox, and spin-crossover behavior. K.Dunbar, C. Avendano, K. Chambers, F. Karadas, A. Prosvirin, M. Shatruk, C. Achim, A. Gragulescu-Andrasi, C. Berlinguette and E. Schelter, 10th International Conference on Molecule-based Magnets, Victoria, British Columbia, Canada, August 13-17, 2006.

229. Magnetic Relaxation in Cyanide Based Single Molecule Magnets. S.Klokishner, S. Ostrovsky, A. Palii, and K.Dunbar, The International Symposium on the Jahn-Teller Effect: Novel Aspects in Orbital Physics and Vibronic Dynamics of Molecules and Crystals, Trieste, Italy, August 23-31, 2006.

230. Effects of Vibronic Interaction in Cyano-Bridged Clusters Containing Mn(III) and Mn(II) Ions. S.M. Ostrovsky, S.I. Kloksihner, A.V. Palii and K.R. Dunbar, The International Symposium on the Jahn-Teller Effect: Novel Aspects in Orbital Physics and Vibronic Dynamics of Molecules and Crystals, Trieste, Italy, August 23-31, 2006.

231. Theoretical Investigations of the Role of Anion-π; Interactions play in Polygon Formations (presented as a poster and a talk). Brandi L. Schottel, Lisa M. Perez, Helen Chifotides, Mikhail Shatruk and Kim R. Dunbar, San Francisco ACS Meeting, September 10-14, 2006.

Conference Papers (continued)

232. Anion-π Interactions in Transition Metal Coordination Compounds. Brandi L. Schottel, Helen Chifotides, Mikhail Shatruk, Latif Chouai, Lisa M. Perez and Kim R. Dunbar, San Francisco ACS Meeting, September 10-14, 2006.

233. Cyanide linkage isomerism and spin crossover behavior in pentanuclear cyanide-bridged clusters. Mikhail Shatruk, Alina Dragulescu-Andrasi, Kristen E. Chambers, Andrey V. Prosvirin, Catalina Achim and Kim R. Dunbar, San Francisco ACS Meeting, September 10-14, 2006.

234. Orbital Effects in Single Molecule Magnets and Single Chain Magnets. S.I. Klokishner, S.M. Ostrovsky, O.S. Reu, A.V. Palii, B.S. Tsukerblat and K.R. Dunbar, European Conference on Molecular Magnetism-2006, Tomar, Portugal, October 10-15, 2006.

235. Magnetic Anisotropy in the Octanuclear Mn_4Re_4 Single Molecule Magnet: Quantum-Spin and Classical-Spin Approaches. S.M. Ostrovsky, A.V. Palii, S.I. Klokishner, B.S. Tsukerblat, E.J. Schelter, A.V. Prosvirin and K.R. Dunbar, European Conference on Molecular Magnetism-2006, Tomar, Portugal, October 10-15, 2006.

236. Molecular cyanide complexes with interesting magnetic, redox and spin-crossover behavior. K. Dunbar, C. Achim, C. Avendano, C. Berlinguette, K. Chambers, A. Dragulescu-Andrasi, F. Karadas, S. Klokishner, J. Krzystek, S. Ostrovsky, A. Palii, A. Prosvirin, M. Shatruk and E. Schelter, European Conference on Molecular Magnetism-2006, Tomar, Portugal, October 10-15, 2006.

237. A computational study of anion-π interactions with complex anions. Ian D. Giles, Brandi L. Schottel, Lisa M. Perez, Helen Chifotides, Kim R. Dunbar, IUCCP, College Station, October 16-18, 2006

238. A Porous 2-D Metal-Organic Framework Magnetic Material. Nazario Lopez, A.V. Prosvirin, A. Chouai and Kim R. Dunbar, College Station, Texas IUCCP conference, October 16-18, 2006.

239. Cyanide Linkage Isomerism and Spin Crossover behavior in Trigonal-Bipyramidal Cyanide Clusters. Kristen Chambers, Mikhail Shatruk, Alina Dragulescu-Andrasi, Catalina Achim and Kim R. Dunbar, College Station, Texas IUCCP, October 16-18, 2006.

240. A Porous 2-D Metal-Organic Framework Magnetic Material. Nazario Lopez, A.V. Prosvirin, A. Chouai and Kim R. Dunbar, Tampa Flordia National SACNAS Conference, October 26-19, 2006.

241. Molecular magnets based on lanthanide ions and the $TCNQF_4$. Nazario Lopez, Hanhua Zhao, Andrey V. Prosvirin, Abdellatif Chouai, and Kim R. Dunbar, Chicago ACS Meeting, March 24-29, 2007 .

242. Investigations into anion-π interactions involving complex anions. Ian Giles, Brandi Schottel, Lisa M. Perez, and Kim R. Dunbar, Chicago ACS Meeting, March 24-29, 2007.

243. Theoretical and experimental investigations of anion-π interactions with complex anions. Brandi L. Schottel, Ian D. Giles, Lisa M. Perez, Kim R. Dunbar, Chicago, ACS Meeting March 24-29, 2007

244. Investigations into anion-π interactions involving complex anions. Ian Giles, Brandi Schottel, Lisa M. Perez, and Kim R. Dunbar, Chicago ACS Meeting, March 24-29, 2007.

245. Investigation into anion-π interactions between π-deficient aromatic systems and complex anions. Ian Giles, Brandi Schottel, Lisa M. Perez, Helen Chifotides, and Kim R. Dunbar, Boston ACS Meeting, August 19-23, 2007.

Conference Papers (continued)

246. Investigation into anion-π interactions between π-deficient aromatic systems and complex anions. , Brandi Schottel, Ian D. Giles, Lisa M. Perez, Helen Chifotides, and Kim R. Dunbar, Boston ACS Meeting, August 19-23, 2007.

247. The influence of anion-π interactions involving polyatomic anions on the self-assembly of coordination compounds. Brandi L. Schottel, Ian D. Giles, Helen T. Chifotides, Lisa M. Perez, Kim R. Dunbar. Boston ACS Meeting, August 19-23, 2007.

248. Synthesis of Threaded Bimetallic DNA Metallointercalators as Moderators of Charge Transfer. Benjamin R. Duffus, Abdellatif Chouai, J. Dafhne Aguirre, Claudia Turro, and Kim R. Dunbar, IUCCP, College Station, TX, October 29-30, 2007.

249. Computational study of complex anions in the presence of conjugated olefin systems: Can these Be Considered Anion – π. Edward S. Funck, Ian D. Giles, Lisa M. Perez, Kim R. Dunbar, IUCCP, College Station, TX, October 29-30, 2007

250. Charge-Transfer-Induced Spin Transition and Photomagnetic Behavior in a Trigonal-Bipyramidal Cyanide Cluster and it's Extended Materials, Kristen E. Funck, Rodolphe Clerac, Curtis Berlinguette, Alina Dragulescu-Andrasi, Andreas Seiber, Hans-Ulrich Gudel, Catalina Achim, Kim R. Dunbar, IUCCP, College Station, TX, October 29-30, 2007

251. Investigation into anion-π interactions between π-deficient aromatic systems and complex anions. Ian Giles, Brandi Schottel, Lisa M. Perez, and Kim R. Dunbar, IUCCP, College Station, TX, October 29-30, 2007

252. Bridging theory and experiment: rational design of molecules based on theoretical predictions. Carolina Avendano, Mikhail Shatruk, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

253. Derivatization of Cyanide-Bridged Molecular Clusters to Enhance Their Physical and Magnetic Properties. Ferdi Karadas, Carolina Avendano, Eric J. Schelter, Mikhail Shatruk, Andrey Prosvirin, and Kim R. Dunbar, New Orleans ACS Meeting, April 5 – 11, 2008.

254. Investigations into the interactions between complex anions and conjugated olefinic systems: Can these be considered anion-π. Edward S. Funck, Ian D. Giles, Helen T. Chifotides, Lisa M. Perez, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

255. Threaded bimetallic DNA metallointercalators as moderators of charge transfer. Benjamin R. Duffus, Abdellatif Chouai, Claudia Turro, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

256. Supermicroporous silica-based SiO_2-Al_2O_3-NiO materials: Solid-state NMR, NMR relaxation and magnetic susceptibility. Vladimir I. Bakhmutov, Boris G. Shpeizer, Andrey V. Prosvirin, Abraham Clearfield, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

257. Anion-π interactions with complex anions: A computational study. Ian D. Giles, Brandi L. Schottel, Helen T. Chifotides, Lisa M. Perez, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

258. Synthesis, single crystal X-ray crystallography, and properties of Cu complexes with $TCNQBr_2$. Hanhua Zhao, Nazario Lopez, Andrey V. Prosvirin, Eric W. Reinheimer, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

Conference Papers (continued)

259. Preparation and properties of cyanide-bridged complexes incorporating 4d and 5d transition metals. Matthew G. Hilfiger, Hanhua Zhao, Andrey V. Prosvirin, Alina Dragulescu-Andrasi, Michael Shatruk, Wolfgang Wersdorfer, Catalina Achim, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

260. Charge-transfer-induced spin transition and photomagnetic behavior in a trigonal-bipyramidal cyanide cluster and its extended materials. Kristen E. Funck, Rodolphe Clerac, Curtis P. Berlinguette, Corine Mathoniere, Remy LeBris, Etienne Harte, Alina Dragulescu-Andrasi, Catalina Achim, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

261. Metal-Organic Frameworks based on metal ions and organocyanide ligands. Nazario Lopez, Hanhua Zhao, Andrey V. Prosvirin, Eric W. Reinheimer, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

262. Novel cobalt (II) carboxylate- phosphonate: A canted antiferromagnet. Andrey V. Prosvirin, Bing-Ping Yang, Ya-Qin Guo, Jiang-Gao Mao, and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

263. Bridging the bilingual gap: using chemistry to enhance science education in the bilingual classroom. Matthew G. Hilfiger, Carolina Piedra, Carolina Avendano, Christi Everett, Kim R. Dunbar and Eric Simanek, New Orleans ACS Meeting, April 5-11, 2008.

264. Monosubstituted dirhodium (II,II) complexes: Effect of the intercalating moiety. J. Daphne Aguirre, Alfredo M. Ageles-Boza, Abdellatif Chouai and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

265. Anion-π interactions and their effect on the anion-templation of polygonal metal architectures. Ian D Giles, Brandi L. Schottel, Helen T. Chifotides, Lisa M. Perez and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

266. Metal-organic frameworks based on 3-D transition metal ions and TCNQX derivatives: (X: F_4, Br_2), Nazario Lopez, Hanhua Zhao, Andrey V. Prosvirin, Eric W. Reinheimer and Kim R. Dunbar, New Orleans ACS Meeting, April 5-11, 2008.

267. Interactions of dirhodium anticancer compounds with DNA. Kim R. Dunbar and Helen T. Chifotides, New Orleans ACS Meeting, April 5-11, 2008.

268. Incorporation of Both Cyanide and Organocyanide Ligands into Molecules and Extended Solids that Incorporate Cluster Building Blocks. Kim R. Dunbar. 2nd Workshop on "Current trends in Nanoscopic and Mesoscopic Magnetism", September 1-5, 2008, Delphi, Greece.

269. Magnetic and conducting metal-organic framework chains with TCNQ. Akira Ota, Andrey Prosvirin, and Kim R. Dunbar. 11th International Conference on Molecule-based Magnets.September 21-24, 2008, Convitto della Calza, Florence, Italy.

270. Molecular Magnets and Conductors Based on Metal Ions and TCNQ Derivatives. Nazario Lopez, Hanhua Zhao, Akira Ota, Andrey V. Prosvirin and Kim R. Dunbar. 11th International Conference on Molecule-based Magnets.September 21-24, 2008, Convitto della Calza, Florence, Italy.

Conference Papers (continued)

271. Formation of Ni/NiO nanoparticles in Supermicroporous Silica-Based SiO_2-Al_2O_3-NiO Materials: structural and magnetic studies. Vladimir I. Bakhmutov, Boris G. Shpeizer, Andrey V. Prosvirin, Kim

R. Dunbar, Abraham Clearfield. "IEEE-NANO 2008". 8th IEEE Conference on Nanotechnology, August 18-21, 2008. Arlington, Texas.

272. Unprecedented Binary Semiconductors Based on TCNQ: Single Crystal X-ray Studies and Physical Properties of $Cu(TCNQX_2)$ X = Cl, Br. Nazario Lopez, Hanhua Zhao, Akira Ota and Kim R. Dunbar, Gordon Research Conference on Inorganic Chemistry, June 21-26, 2009. University of New England, Biddeford, ME.

273. Investigations of interactions between anions and multi-ring aromatic systems in solution and in the solid state: Anion-π or charge-transfer interactions? Edward S. Funck, Helen T. Chifotides, Lisa M. Perez, Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

274. New Prussian blue phases based on hexacyanoosmate (III), Matthew G. Hilfiger, Darryl Stepien, Carolina Avendano, Codi Sanders, Andrey Prosvirin, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

275. Binary phases of p-block metal TCNQ materials: Sturcture-property correlations, Carolina Avendano, Akira Ota, Zhongyue Zhang, Nattamai Bhuvanesh, Hanhua Zhao, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

276. Photomagnetic Behavior in Trigonal-Bipyramidal Cyanide Clusters, Kristen E. Funck, Andrey Prosvirin, Rodolphe Clerac, Corine Mathoniere, Remy Le Bris, Etienne Harte, Curtis P. Berlinguette, Michael Shatruk, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

277. Design and preparation of higher nuclearity clusters and chains using cyanide molecular nanomagnets as buiding blocks, Ferdi Karadas, Carolina Avendano, Andrey V. Prosvirin, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

278. Interactions of substituted dirhodium(II,II)/dppz complexes with cysteine/T7 RNA polymerase:Investigation of their EPR active radicals. Helen T. Chifotides, J. Dafhne Aguirre, Alfredo M. Angeles-Boza, Abdellatif Chouai, Claudia Turro, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

279. Charge-transfer and anion-p interactions between 1,4,5,8,9,12-hexaazatriphenylene-hexacarbonitrile and halide anions. Helen T. Chifotides, Brandi L. Schottel, and Kim R. Dunbar, Washington DC, ACS Meeting, August 16-20, 2009.

280. Unprecedented Binary Semiconductors Based on TCNQ: Single Crystal X-ray Studies and Physical Properties of $Cu(TCNQX_2)$ X = Cl, Br. Nazario Lopez, Hanhua Zhao, Akira Ota, and Kim R. Dunbar, National SACNAS Conference, October 15-18, 2009. Dallas, Texas.

281. Supramolecular nanotubes based on Ln(III) ions and tptz ligands: gas sorption and single crystal X-ray studies of $[Ln(tptz)(HCOO)_3]\cdot 2.5H_2O$ (Ln = Pr, Sm). Nazario Lopez, Hanhua Zhao, Dan Zhao, Hong-Cai Zhou, and Kim R. Dunbar. San Francisco, ACS Meeting March 22-26, 2010.

282. Trigonal bipyramidal cyanide clusters as building blocks for higher nuclearity molecules and chains. Kristen E. Funck, Curtis P. Berlinguette, Michael Shatruk, Andrey V. Prosvirin, Kim R. Dunbar. San Francisco, ACS Meeting March 22-26, 2010.

Conference Papers (continued)

283. Supramolecular nanotubes based on Ln(III) ions and tptz ligands: Gas sorption and single crystal X-ray studies of $[Ln(tptz)(HCOO)_3]\cdot 2.5H_2O$ (Ln = Pr, Sm) Nazario Lopez, Dr. Hanhua Zhao, Dan Zhao, Prof. Hong-Cai Zhou, Kim R. Dunbar. Boston, ACS Meeting August 22-16, 2010.

284. ncreasing the Barrier Height of Single Molecule Magnets by Incorporating Highly Anisotropic Metal Ions into Cyanide Bridged Metal Clusters Heather Southerland, Carolina Avendano, Wolfgang Wersndorfer, Andrey Prosvirin, Kim R. Dunbar, Spring 2011 ISSMMM Meeting, Argonne National Laboratory, IL, March 14-18, 2011.

285. First example of main-group binary conducting MOFs and their structure-property correlations: Tl(TCNQ) and $Tl(TCNQX_2)$ (X=Cl, Br, I). Zhongyue Zhang, Carolina Avendano, Hanhua Zhao and Kim R. Dunbar, Spring 2011 ISSMMM Meeting, Argonne National Laboratory, IL, March 14-18, 2011.

286. Spectroscopic and crystallographic analysis of anion-templation in square and pentagonal architectures of divalent first-row transition metal ions. Ian D. Giles, Helen T. Chifotides and Kim R. Dunbar. 241st ACS Meeting, March 27-31, 2011.

287. A Foray in Wernerain and Non-Wernerian Chemistry Over the Years. *50th Anniversary of the ACS journal, Inorganic Chemistry,* 242nd ACS Meeting, Denver, Colorado, August 2, 2011.

288. Synthesis and characterization of dirhodium based metallopeptides: Facilitating drug delivery systems from cell translocation. Amanda David, Jean-Philippe Pellois, and Kim R Dunbar. Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

289. Increasing the Barrier Height of Single Molecule Magnets by Incorporating Highly Anisotropic Metal Ions into Cyanide Bridged Metal Clusters. Heather Southerland and Kim R. Dunbar. Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

290. Enriching Magnetic Properties Through Single Ion Anisotropy. Mohamed Saber and Kim R. Dunbar. Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

291. Ruthenium (II) Bis-acetonitrile Complexes as Photocisplatin Analogues. Bruno Pena and Kim R. Dunbar. Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

292. Supramolecular Chemistry of Anions with Electron-Deficient Aromatic Rings: Examples of the Critical Roles of Anion-Pi Interactions. Helen Chifotides, Ian Giles and Kim R Dunbar, Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

293. Investigation of $[Rh_2(\mu\text{-L-L})_2(CH_3CN)_6[BF_4]_2$ "Partial Paddlewheel" Compounds as Photodynamic Therapy Agents. Zhanyong Li and Kim R, Dunbar. Fall 2011 Southwest Regional ACS Meeting, Austin, Texas, November 9-12, 2011.

294. Introduction of Highly Anisotropic Building Blocks into Small Molecule Clusters: Probing the Role of Spin-orbit Coupling Effects on Single Molecule Magnet Behavior. Andrew Brown and Kim R. Dunbar, Fall 2011 Southwest Regional ACS Meeting, Austin, TX, November 9-12, 2011.

295. Use of 4d and 5d Trivalent Anions to Engender Greater Magnetic Anisotropy. Codi Anne Sanders, Matthew Hilfiger, Andrey Prosvirin and Kim R. Dunbar, Fall 2011 Southwest Regional ACS Meeting, Austin, TX, November 9-12, 2011.

Conference Papers (continued)

296. Investigation of $[Rh_2(\mu\text{-L-L})_2(CH_3CN)_6[BF_4]_2$ "partial paddlewheel" compounds as photodynamic therapy agents. Zhanyong Li, Claudia Turro, and Kim R. Dunbar. 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.

297. Synthesis and characterization of dirhodium based metallopeptides: Facilitating drug delivery systems for cell translocation. Amanda David, Jean Philippe Pellois, and Kim R. Dunbar. 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.

298. Insight into the Photoinduced Ligand Exchange Reaction Pathway of *cis*-$[Rh_2(O_2CCH_3)_2(CH_3CN)_6]^{2+}$ with a DNA Model Chelate. Helen T. Chifotides, Daniel A. Lutterman, Kim R. Dunbar and Claudia Turro. 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.

299. Polypyridine ruthenium (II) bis-acetonitrile complexes as photocisplatin analogs. Bruno Pena, Nick Lead, Claudia Turro, and Kim Dunbar. 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.

300. Dinuclear metal-metal bonded compounds as new PDT agents. Kim R. Dunbar. 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.

301. Recent progress of developing new metal-organic hybrid semiconductors with TCNQ derivatives. (TCNQ=7,7,8,8-tetracyanoquinodimethane) Zhongyue Zhang, Hanhua Zhao and Kim R. Dunbar 2012 Gordon Research Confernce on Crystal Engineering, Waterville Valley Resort, Waterville Valley NH, June 10-15, 2012.

302. Molecular Magnets Based on Metal Cyanide Building Blocks: Single Molecule Magnetism, Spin-Crossover and Charge-Transfer Induced Spin Transitions. Kim R., Dunbar "Exxon Mobil Solid State Chemistry Faculty Fellow Award Symposium in Honor of Michael Shatruk" 244th ACS National Meeting, Philadelphia, PA, August 21, 2012.

303. Single-Ion Anisotropy in Ti^{III}Building Blocks. Andrew Brown, Andrew Prosvirin, and Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

304. Magnetic Architectures Derived from Heptacyanomolybdate (III). K. R. Dunbar, X. Y Want, Q.L. Wang, H. Southerland, H. Zhao, and A. Prosvirin. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

305. Enhancing Magnetic Properties of Molecular Magnetic Materials: The Role of Single Ion Anisotropy. M. R. Saber, A. P. Prosvirin, K. R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

306. Investigating the Role of 4d and 5d Trivalent Hexacyanometallate Anions in Analogs of Prussion blue and Prussian Blue-type Magnetic Materials. Codi Sanders, Andrew Prosvirin, and Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

307. Exploring the Magnetic Coupling Capabilities of a Tetrazine-Based Radical Ligand. T. J. Woods, J. V. Frank, A. Prosvirin, K. R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

308. Metal-Organic Framewords with Tunable Magnetic Properties. M. Wriedt, A. A. Yakovenko, A. Prosvirin, K. R. Dunbar, H.-C. J. Zhou. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

Conference Papers (continued)

309. Magnetic Coupling in Metal-Organic Frameworks through 7,7,8,8-Tetracyanoquinodimethane Dianion. Xuan Zhang, Lei Sun, Andrey V. Prosvirin, Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012. *Selected for a Poster Prize*

310. Development of metal-TCNQ Conductors and Magnets: (TCNQ=7,7,8,8-tetracyanoquinodimethane). Zhongyue Zhang, Hanhua Zhao and Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

311. Structural Characterization and Magnetic Properties of a New Isomer of the Single Molecule Magnet $Mn_{12}O_{12}(CH_3COO)_{16}(H_2O)_4$. Hanhua Zhao, Andrew Prosvirin and Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

312. A series of One Dimensional Compounds Based on the hexacyanomagnagate (III) Anion Including a Single Chain Magnet. Hanhua Zhao, Andrew Prosvirin and Kim R. Dunbar. 13th International Conference on Molecule-based Magnets, Orlando, October 7-11, 2012.

313. Anion-Pi Interactions in Supramolecular Architectures. Kim R. Dunbar. *F. Albert Cotton Award in Synthetic Inorganic Chemistry in Honor of Gregory H. Robinson*, 245th ACS National Meeting, New Orleans Louisiana, April 11, 2013.

314. The First Fluorophore-Labeled Metal-Metal Bonded Compound: Probing Anticancer Activity. Bruno Peña, Rola Barhoumi, Robert C. Burghardt and Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

315. New Dirhodium(II,II) Complexes with Redox Active Excited States and their Potential Use in Solar Energy Conversion. Zhanyong Li, Nicolas A. Leed, Claudia Turro, Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

316. Enhancing zero field splitting parameters in mononuclear vanadium complexes. Mohamed R. Saber and Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

317. Investigating the Role of Anisotropic Trivalent Hexacyanometallate Anions in Magnetic Materials. Codi Sanders, Heather Stout, Catalina Achim and Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

318. Next Generation Nanoelectronics: Single-Molecule Magnets for Computing and Data Storage. Andrew Brown and Kim Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

319. Fluoride: An Under-Explored Ligand for the Synthesis of Molecular Magnetic Materials. Toby J. Woods, Xinyi Wang, Andrey Prosvirin, and Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

320. Multifunctional Molecular Materials Based on Transition Metals and Organocyanide Ainons. Xuan Zhang and Kim Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

Conference Papers (continued)

321. Exploration of Dicyanoquinodiimine Anions as Bridging Ligands in Mixed Valence Dinuclear Metal Complexes. Charles Culbertson, Xuan Zhang, and Kim Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

322. Cytotoxicity studies of a new series of dirhodium (II,II) compounds containing mixed bridging ligands. Amanda David, Bruno Peña, Briana Zamora, Jean-Philippe Pellois, and Kim R. Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

323. Extended superstructures developed from Supramolecular Anion-π Templated Metallacycles. Jill Frank and Kim Dunbar. Graduate Student Symposium on Excellence in Chemical Research, Sponsored by BASF - The Chemical Company. August 1, 2013.

324. Magnetic Molecules With Strong Anisotropy. Kim R. Dunbar *Symposium: New Trends in Molecular Magnetic Materials*, 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, 2013.

325. First Fluorophore-Labeled Metal-Metal Bonded Compound: Probing Anticancer Activity. Bruno Peña, Rola Barhoumi, Robert C. Burghardt, Kim R. Dunbar, Southwest Regional ACS Meeting 2013, November 16-18, 2013.

326. New partial paddlewheel dirhodium methyl isocyanide compounds with unusual structural and electronic properties: A comprehensive experimental and theoretical Study. Zhanyong Li, Helen Chifotides, Kim R. Dunbar, Southwest Regional ACS Meeting 2013, November 16-18, 2013.

327. Binding Motifs and Interactions of Anticancer Metal-Metal Bonded Complexes with DNA. Helen Chifotides and Kim R. Dunbar Southwest Regional ACS Meeting 2013, November 16-18, 2013.

328. Exploration of Magnetic Coupling through the Dicyanamidobenzene Anion Bridge in Dinuclear Metal Complexes, Charles Culbertson, Xuan Zhang, and Kim Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

329. Extended superstructures developed from Supramolecular Anion-π Templated Metallacycles, Jill Frank and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

330. Supramolecular Chemistry of Anions with Pi-Acidic Rings: Organic, Inorganic and Biological Studies, Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

331. Tuning the spin transitions in hexacyanometallate containing magnetic materials, Codi Sanders, Heather Stout, Catalina Achim, Doros Petasis, Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

332. Directional charge transfer and highly reducing excited states of new dirhodium(II,II) complexes: potential applications in solar energy conversion, Zhanyong Li, Nicholas Leed, Claudia Turro and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

333. Anticancer Properties of Ruthenium(II) Polypyridine Compounds With Anionic N^O-donor Bidentate Ligands, Bruno Peña, Rola Barhoumi, Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

334. Probing anion-□ interactions of metallacycles with the □ -acidic ligand 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine (bptz) by NMR spectroscopy, Helen T. Chifotides and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

Conference Papers (continued)

335. Cytotoxicity studies of a new series of dirhodium (II,II) compounds containing mixed bridging ligands, Amanda David, Bruno Peña, Jean-Philippe Pellois, and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014. Highlighted in C&EN news, "Rhodium expands collection of metal-based anticancer agents", August 13, 2014.

336. Underexplored Magnetic Architectures Based on TrivalentTitanium and Molybdenum, Andrew Brown and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

337. Enhancing zero field splitting parameters in mononuclear vanadium complexes, Mohamed R. Saber, Kimalavalli Thirunavukkuarasu, Stephen Hill and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

338. Dirhodium (II,II) pyrrolidonato compounds and their applications as anticancer agents, Amanda David, Nandhini Muthukrishnan, Jean-Philippe Pellois, and Kim R. Dunbar, 248th ACS National Meeting, San Francisco, CA, August 10-14, 2014.

339. Exploring the Magnetic Coupling Capabilities of a Tetrazine-Based Radical Ligand, T. J. Woods, M. F. Ballesteros-Rivas, K. R. Dunbar, 248th ACS National Meeting, San Francisco, CA, August 10-14, 2014.

340. Synthesis and Characterization of New Heavy Element Cyanide Compounds, Francisco J. Birk, Dawid Pinkowicz, Yuanzhu Zhang, and Kim R. Dunbar, 248th ACS National Meeting, San Francisco, CA, August 10-14, 2014.

341. Enhancing zero field splitting parameters in mononuclear vanadium complexes, Mohamed R. Saber, Kimalavalli Thirunavukkuarasu, Stephen Hill and Kim R. Dunbar, 247th ACS National Meeting, Dallas, Texas, March 16-20, 2014.

342. Prolate Lanthanide Mononuclear Single-Molecule Magnets in a Trigonal Pyramidal Coordination Environment, Andrew J. Brown, Dawid Pinkowicz, Mohamed Saber, and Kim R. Dunbar" Gordon Research Conference on Conductivity & Magnetism in Molecular Materials, Lewiston, ME, August 3-8, 2014.

343. Metal-TCNQ-Based Functional Materials with Semiconducting and Magnetic Properties, Xuan Zhang, Hanhua Zhao, Zhao-Xi Wang, Yuan-Zhu Zhang, Andrey Prosvirin, Kim R. Dunbar, Gordon Research Conference on Conductivity & Magnetism in Molecular Materials, Lewiston, ME, August 3-8, 2014.

344. Semiconductors and Aperiodic Structures in Organocyanide-Based Materials, Xuan Zhang, Hanhua Zhao, Lukas Palatinus, Kevin Gagnon, John Bacsa, Kim R. Dunbar, 23rd Congress of the International Union of Crystallography, Montreal, Canada, August 5-12, 2014.

345. Giant Magnetic Anisotropy in Mononuclear Cobalt(II) Complexes with Trigonal Antiprism Geometry, Yuan Zhu Zhang, Andrew J. Brown, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

346. Investigating the magnetic properties of metal complexes containing a tris(amido)amine ligand, Francisco J. Birk, Kelsey Schulte, Dawid Pinkowicz and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

Conference Papers (continued)

347. Supramolecular chemistry of anions: Organic, Inorganic and Biological Studies, Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

348. Biological Studies of Dirhodium (II,II) Based Compounds and their Applications as PhotoChemotherapeutic Agents, Amanda David, Zhanyong Li, Bruno Peña, Jean-Philippe Pellois, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

349. Anion-π Contacts in Supramolecular Architectures, Helen T. Chifotides and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

350. Computational Exploration of the Non-Covalent Interactions involved in the Inhibition of Malate Synthase for Treatment of Tuberculosis, Jill Frank, Steven Wheeler, James C. Sacchettini, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

351. Using Supramolecular Pentagonal Building Blocks to acces New Polyhedral Architectures, Jill Frank, Helen T. Chifotides, Brad Ewers, Alison Pawlicki, James Batteas, Steven Wheeler, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

352. A series of trigonal bipyramidal Co(II) complexes that display SMM behavior, M.F. Ballesteros-Rivas, T.J. Woods, K. R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

353. Ligand Effects and Geometrical Control of the Magnetic Anisotropy in Mononuclear SMMs, Mohamed R. Saber, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

354. Synthesis, Characterization and Photochemical Studies of Solvated Dinuclear Ru(II) Compounds with Quinoxaline and Pyrazine based Bridging Ligands, Sayan Saha, Bruno Peña, Bryan A. Albani, Claudia Turro, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

355. Guest Modulated Magnetic Ordering in TCNQ-based Metal-Organic Frameworks, Xuan Zhang, Mohamed Saber, Andrey V. Prosvirin, Lei Sun, Joseph H. Reibenspies, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

356. Solvent effects on the spin transitions in discrete cyanide-based magnetic materials, Codi Sanders, Heather Stout, Catalina Achim, Doris Petasis, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

357. Tunable Dirhodium Complexes for Photochemotherapy: Enhanced Production of Singlet Oxygen and Oxygen-Independent Activity Towards Cancer Cells, Kim R. Dunbar and Claudia Turro, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

358. "Reinventing the wheel" with heptacyanomolybdate(III), David Kempe, Han-Hua Zhao, Toby Woods, Mohamed Saber, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

359. Dinuclear complexes as model systems to explore magnetic coupling through tetrazine-based radical ligands, T.J. Woods, M.F Ballesteros-Rivas, and K.R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

360. Dinuclear Lanthanide complexes Containing a Radical Bridging Ligand, T.J. Woods, M.F. Ballesteros-Rivas, and K.R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

Conference Papers (continued)

361. Semiconducting and Magnetic Properties in Metal-TCNQ-Based Functional Materials, Xuan Zhang,

Hanhua Zhao, Zhao-Xi Wang, Yuan-Zhu Zhang, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

362. Molecular magnetic and conducting materials inspired by coordination chemistry, Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

363. High-field electron paramagnetic resonance determination of the magnetic anisotropy in pseudooctahedral mononuclear V^{III} complexes, Komalavalli Thirunavukkuarasu, Mohamed R. Saber, Mihail Atanasov, Frank Neese, Stephen Hill, and Kim R. Dunbar, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

364. Evaluating magnetic properties of molecules with strong anisotropy based on electronic configuration and geometry. Kim R. Dunbar, Maria Ballesteros, Stephen Hill, Dawid Pinkowicz, Mohamed R. Saber, Toby J. Woods, Yuan-zhu Zhang, Han-hua Zhao, 249th ACS National Meeting, Denver, CO, March 22-25, 2015.

365. Enhancement of phototoxicity through efficient ligand photodissociation from Ru(II) complexes of the bulky 6-phenyl-2,2′-bipyridine ligand. Sayan Saha, Ryan P. Coll, Kathlyn L. Fillman, Jean-Philippe Pellois, Claudia Turro and Kim R. Dunbar, 72nd Annual Southwest Regional Meeting (SWRM), Galveston, TX, November 10-13, 2016.

366. Shifting the ^{1}MLCT Absorption into the Therapeutic Window by Bridging Two Ru(II)-centers using Quinoxaline and Pyrazine Based Bridging Ligands. Sayan Saha, Bruno Peña, Bryan A. Albani, Claudia Turro and Kim R. Dunbar, BASF-TAMU Graduate Student Symposium, Texas A&M University, August 10, 2016 and A. E. Martell Symposium, Texas A&M University, October 14, 2016.

367. Ruthenium and rhodium based anticancer compounds with diimine ligands. Kim R. Dunbar, Sayan Saha, Bruno Peña, Amanda David and Claudia Turro, 251st ACS National Meeting & Exposition, San Diego, CA, March 13-17, 2016.

368. Functional molecular materials based on cobalt(II) spin-crossover building units, Kim R. Dunbar, San Diego, CA, March 13-17, 2016.

369. Heavy element molecular magnetism: Exploiting spin-orbit effects and anisotropic coupling, Kim R. Dunbar, San Diego, CA, March 13-17, 2016.

370. Experimental and computational approaches to understanding and implementing weak forces involving anions and aromatic pi-systems, Kim R. Dunbar, San Diego, CA, March 13-17, 2016.

371. Paramagnetic dinuclear complexes with radical diimine ligands, Kim R. Dunbar, San Diego, CA, March 13-17, 2016.

372. Bifunctional Molecular Magnetic and Semiconducting Materials with Partially Charged Organic Radicals, Xuan Zhang and Kim R. Dunbar, Dow Symposium & Graduate Awards Ceremony, Texas A&M University, May 25, 2016.

373. New compounds incorporating $[(triphos)Re(CN)_3]^-$. David K. Kempe, Brian S. Dolinar, Kim R. Dunbar. A. E. Martell Symposium, Texas A&M University, October 14, 2016.

Conference Papers (continued)

374. Design of new partial paddlewheel dirhodium(II,II) complexes featuring electron donating and

withdrawing ligands and their potential use as photodynamic therapy agents. Ryan P. Coll , Agustin Millet, Brian S. Dolinar, Jean-Phillipe Pellois, Claudia Turro, Kim R. Dunbar. Martell Symposium, Texas A&M University, October 14, 2016.

375. Controlled Synthesis of Single Molecule Magnets with Trigonal Symmetry. Kelsey Schulte, David Kempe, and Kim R. Dunbar, Martell Symposium, Texas A&M University, October 14, 2016.

376. Design of new partial paddlewheel dirhodium(II,II) complexes featuring electron donating and withdrawing ligands and their potential use as photodynamic therapy agents. Ryan P. Coll, Agustin Millet, Brian S. Dolinar, Jean-Phillipe Pellois, Claudia Turro, Kim R. Dunbar. 72nd Annual ACS Southwest Regional Meeting, Galveston, TX, November 10-13, 2016.

377. Enhancement of phototoxicity through efficient ligand photodissociation from Ru(II) complexes of the bulky 6-phenyl-2,2′-bipyridine ligand. Sayan Saha, Ryan Coll, Jean-Philippe Pellois, Claudia Turro and Kim R. Dunbar, 72nd Annual ACS Southwest Regional Meeting, Galveston, TX, November 10-13, 2016.

378. Dirhodium(II,II) Complexes for Photoactivated Chemotherapy. Kim R. Dunbar and Claudia Turro, 72nd Annual ACS Southwest Regional Meeting, Galveston, TX, November 10-13, 2016

379. Targeting cancer with transition metal complexes: from basic science toward therapy. Claudia Turro, Kim R. Dunbar, Jeremy Kodanko, 72nd Annual ACS Southwest Regional Meeting, Galveston, TX, November 10-13, 2016.

380. Photoreleasing caged molecules containing nitrile functionality from Ru(II) complexes of the bulky 6-phenyl-2,2′-bipyridine ligand. Sayan Saha, Ryan P. Coll, Kathlyn L. Fillman, Jean-Philippe Pellois, Claudia Turro and Kim R. Dunbar, 253rd ACS National Meeting & Exposition, San Francisco, CA, April 2-6, 2017.

381. Catalytic production of hydrogen and reduction of carbon dioxide by dirhodium(II,II) complexes. Claudia Turro and Kim R. Dunbar, 253rd ACS National Meeting & Exposition, San Francisco, CA, April 2-6, 2017.

382. Probing anisotropy in molecular magnetism. Kim R. Dunbar, 253rd ACS National Meeting & Exposition, San Francisco, CA, April 2-6, 2017.

383. Multimetallic Systems for the Photocatalytic Production of Fuels from Abundant Sources. Claudia Turro and Kim R. Dunbar, Thirty-Ninth DOE Solar Photochemistry PI's Meeting, Marriot Washingtonian Center, Gaithersburg, Maryland, June 5-8, 2017.

384. The coordination chemistry of 3,6-bis(2-pyridyl)-1,2,3,4-tetrazine (bptz) ligand. Dimitris I. Alexandropoulos, Brian S. Dolinar, Kuduva R. Vignesh, Kim R. Dunbar, 6th European Conference on Molecular Magnetism, Bucharest, Romania, August 27-31, 2017.

385. Theoretical investigations on radical bridged supramolecular metallacycles toward exploring single molecular magnets. Kuduva R. Vignesh, Dimitris I. Alexandropoulos, Brian S. Dolinar, Kim R. Dunbar, Asia-Pacific Conference of Theoretical and Computational Chemistry (APCTCC8)", Mumbai, India, December, 15-17, 2017.

Conference Papers (continued)

386. Experimental and computational studies of trans-RH_2 compounds: Improving the photochemistry by

manipulating the configurational isomerism. Agustin Millet, Congcong Xue, Claudia Turro, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

387. Coordination sphere effects on unusually large zero field splitting and slow magnetic relaxation in trigonally symmetric 3d molecules. Kelsey Schulte, Kuduva R. Vignesh, and Kim R. Dunbar, 255 th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

388. Radical-Bridged Dinuclear and Metallacyclic Trinuclear Lanthanide Complexes. Brian S. Dolinar, Dimitrios I. Alexandropoulos, Vignesh Kuduva Radhakrishnan, Tia'Asia James, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

389. Molecular magnets utilizing anisotropic coupling with 4d and 5d cyanometallate compounds. Francisco J. Birk, Dawid Pinkowicz, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

390. Theoretical investigations on radical bridged supramolecular metallacycles towards exploring single molecular magnets. Vignesh Kuduva Radhakrishnan, Dimitrios I. Alexandropoulos, Brian S. Dolinar, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

391. Employment of non-innocent ligands in transition metal coordination chemistry. Dimitrios I. Alexandropoulos, Brian S. Dolinar, Vignesh Kuduva Radhakrishnan, Kim R. Dunbar 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018

392. Halogenated Formamidinate Bridged Dirhodium (II,II) Complexes and Photodynamic Therapy Based Anti-Cancer Agents. Ellen Song, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

393. Anisotropic exchange in polynuclear complexes containing Mo^{III}. David K. Kempe, Toby J. Woods, Kelsey Schulte, Hanhua Zhao, Mohamed Saber, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

394. Employment of non-innocent ligands in transition metal coordination chemistry. Dimitris I. Alexandropoulos, Brian S. Dolinar, Kuduva R. Vignesh, Kim R. Dunbar, 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018.

395. Designing Structurally Hindered Ru(II)-photocages for Photodynamic Therapy (PDT) Applications. Sayan Saha, Ryan P. Coll, Kathlyn L. Fillman, Jean-Philippe Pellois, Claudia Turro and Kim R. Dunbar, Metals in Medicine Gordon Research Conference, Andover, NH, June 24-29, 2018.

396. Radical-bridged Dinuclear, Trinuclear, and Metallacyclic Lanthanide Complexes. Brian S. Dolinar, Dimitris I. Alexandropoulos, Kuduva R. Vignesh, Tia'Asia James, and Kim R. Dunbar, Gordon Research Conference on Conductivity and Magnetism in Molecular Materials, Bryant University, Smithfield, RI, August 12-17, 2018.

397. Radical-bridged Dinuclear, Trinuclear, and Metallacyclic Lanthanide Complexes. Brian S. Dolinar, Dimitris I. Alexandropoulos, Kuduva R. Vignesh, Tia'Asia James, and Kim R. Dunbar, Gordon Research Conference and Seminar and Magnetism in Molecular Materials, Bryant University, Smithfield, RI, August 11-12, 2018.

Conference Papers (continued)

398.

Departmental Activities & Committees

Michigan State University 1987-99

1987-88
1. Advisory
2. Admissions
3. Library

1988-89
1. Advisory
2. Graduate Advisory
3. Admissions
4. High Energy Physics Search Committee

1989-90
1. Advisory
2. Graduate Advisory
3. Chairperson Search Committee (Chemistry)
4. High Energy Physics Search Committee
5. Committee to evaluate Freshman Honors Program

1990-91
1. Colloquium
2. Equipment
3. Inorganic Search Committee
4. High Energy Physics Search Committee
5. NMR Advisory Committee

1991-92
1. Colloquium
2. Inorganic Search
3. Reappointment and Promotions
4. NMR Advisory

1992-93
1. Advisory to the Chair
2. Organic Search
3. Reappointment and Promotions
4. NMR Advisory
5. Advisory to the Chair

1993-94
1. Organic Search
2. Equipment (Chair)
3. Advisory to the Chair

1994-95
1. Graduate Admissions
2. Library
3. NMR Advisory

1995-96
1. Admissions
2. Graduate Advising
3. NMR Advisory
4. Physical Search

1996-97
1. Advisory to the Chair
2. NMR Advisory
3. X-ray Advisory
4. Analytical Search
5. MSU Distinguished Fellowship Selection Committee

1997-98
1. Advisory to the Chair
2. Chair Search
3. Inorganic Search
4. MSU Distinguished Fellowship Selection Committee
5. Reappointment and Promotions
6. Sigma Xi Awards Committee
7. X-ray Advisory

1998-99
1. Library
2. NMR Advisory
3. Organic Search
4. Reappointment and Promotions
5. Sigma Xi Awards

Texas A&M University Committees

Present:

1. SQUID Users Committee (1999-2015)
2. EPR Users Committee (1999-present)
3. Distinguished Professor Advisory Committee to the Dean of the College of Science (2009-2018)
4. NMR Users Committee (1999-present)
5. Promotion and Tenure Committee (2000-2002; 2005-2007; 2015-2017)
6. Infrastructure Committee, Chemistry Department (2008; 2015)
7. X-ray Users Committee (1999-present)
8. TIAS Advisory Board (2015-present)
9. University Selection Committee for the Distinguished Professor Award (2015-present)

Past:

10. Interdisciplinary Faculty Search Committee 2014
11. Texas A&M Former Women's Students Committee for Eminent Scholar Award (2012-present)
12. Vision 2020 mid-term review Imperative 4 Study Team (IST) (2011)
13. Chair, Association of Former Students Teaching Award Committee (2010)
14. Dean of Faculties Search Committee (2009)
15. Provost Search Committee for Dean of Faculties (2009)
16. Chemistry Department Head Search Committee (2002); Chair (2006)
17. Self-Study Committee for External Review, Department of Chemistry (2005)
18. Chair, Graduate Curriculum Committee (2001-2003)
19. Chair, Division of Inorganic Chemistry (1999-2001)
20. Departmental Advisory Committee (1999-2001)
21. Materials Science & Engineering Executive Committee (2000-2004)
22. Search Committee for Dean of the College of Science (2001-2002)
23. XPS Committee (1999-2003)

Courses Taught at Michigan State University (MSU) and Texas A&M Universoty (TAMU)

***Graduate Courses*:**

- "Group Theory and Spectroscopy" (Advanced Inorganic Chemistry I), MSU
- "Descriptive Inorganic Chemistry" (Advanced Inorganic Chemistry II), MSU
- "Physical Methods in Inorganic Chemistry", MSU and TAMU
- Special Topics courses
  "Metal-Metal Bond Chemistry" MSU
  "Magnetochemistry", MSU
  "Transition Metal Chemistry", MSU
- Inorganic Seminar, MSU and TAMU

***Undergraduate Courses*:**

- "Freshman Chemistry" for non-majors (both 1st and 2nd semesters), MSU
- "Descriptive Inorganic Chemistry" (emphasis on environmental chemistry), MSU
- "Organometallic Microscale laboratory Course" Junior/Senior Chemistry Majors, MSU
- "Undergraduate Inorganic Chemistry" Junior/Senior Chemistry Majors *Chem 462*, TAMU
- " Desciptive Inorganic Chemistry" Junior/Senior Chemistry Majors *Chem 362*, TAMU
- "Advanced Inorganic Laboratory" Junior/Senior Chemistry Majors *Chem 433*, TAMU

University and Community Service

1. *Physical Science High School eachers Workshop* Lecture Series, February 1989
2. *Science Olympiad in the Classroom Workshop*, Grand Rapids, November 13, 1989
3. College of Natural Science mentor for minority chemistry students
4. Michigan Science Teachers Association, Invited Lecture, East Lansing, Michigan, February 17, 1990
5. *Shapes and Colors in Chemistry*, Kinawa Middle School, Okemos, Michigan, March 3, 1990
   Math/Science Conference sponsored by the Ingham County Intermediate School District
6. Robert E. McNair – Summer Research Opportunities for Minority Students (advisor for 2 students)
7. *Science Affair* Panel Discussion, MSU Science Day, October 26, 1991
8. *Crystals and Polymers*, Kinawa Middle School, Okemos, Michigan, February 26, 1992
   Math/Science Conference sponsored by the Ingham County Intermediate School District
9. Robert E. McNair – Summer Research Opportunities for Minority Students at Michigan State
   NSF/Research Experience for Undergraduates (REU) Summer Program
10. NSF/REU Program in Materials and Biological Chemistry
11. NASA Sharp Program
12. *Research Mentor*, High School Students, A&M Consolidated, 2004-2005
13. Open House Day Chemistry Demonstration Faculty Coordinator, National Chemistry Week, 2007-present
14. ACS Minority Scholars Program, Local TAMU Mentor 2009-present
15. Chemistry Open House Demonstrations, National Chemistry Week, Texas A&M University 2008-present
16. Founded a chapter of National Organization for Black Chemists and Chemical Engineers (NOBCChE) at TAMU aliong with Prof. James Batteas who is the co-advisor of the chapter, 2012-present

Current Research Group

Ph.D. Students

1. Francisco Birk, Ph.D. candidate
2. Ryan Coll, Ph.D. candidate
3. Junjie Huang, Ph.D. candidate
4. David Kempe, Ph.D. candidate
5. Agustin Millet, Ph.D. candidate
7. Kelsey Schulte, Ph.D. candidate
8. Ellen Song, Ph.D. candidate
9. An Vu, Ph.D. candidate
10. Haomiao Xie, Ph.D. candidate

Postdoctoral/Research Associates, Visiting Professors

1. Dr. Brian Dolinar, Postodoctoral Research Asst.
2. Dr. Wen-Bin Sun, Visiting Scholar
3. Juan Sun, Visiting Ph.D. student
4. Hongyan Zhuo, Visiting student

Undergraduates

Santiago Quevedo

	Former Graduate Students:	Current Position:
1.	Jun Liu, M.S. 1989	Brookhaven National Laboratory
2.	Dr. Sue-Jane Chen, Ph.D. 1991	Research Scientist, Quorex Pharmaceuticals, San Diego, CA
3.	Dr. Steven Haefner, Ph.D. 1992	Professor, Bridgewater State College
4.	Dr. Laura Pence, Ph.D. 1992	Professor, University of Hartford
5.	Dr. Anne Quillevéré, Ph.D. 1992	Freelance Science Writer and Editor
6.	Stacey Bernstein, M.S. 1992	Global Regulatory Affairs, Boston
7.	Dr. Stuart Bartley, Ph.D. 1993	Research Scientist, Polymer Division, Lubrizol Corporation
8.	Dr. Jui-Sui Sun, Ph.D. 1994	
9.	Muna Bufaroosha Al Falasi, M.S. 1995	(Ph.D. LSU) Asst. Prof. United Arab Emirates U.
10.	† Dr. Kemal Catalan, Ph.D. 1998	Senior Research Scientist, Proctor & Gamble
11.	Dr. Calvin Uzelmeier, Ph.D. 1998	Director, Rochester Science Museum
12.	† Elizabeth Lozada, M.S. 1998	NMR Specialist, DuPont Central Research
13.	Jennifer Hess, M.S. 1998	Research Scientist, Athersys Corporation
14.	Dr. Xiang Ouyang, Ph.D. 1998	Research Scientist, Vancouver, British Columbia
15.	Shannon Harris, M.S. 1999	
16.	Matthew Prater	Research Scientist, Image Perx, Minneapolis, MN
17.	Dr. Paul S. Szalay, Ph.D. 2001	Associate Professor, Muskegon College
18.	Dr. Jennifer Smith, Ph.D. 2001	
19.	Dr. Cristian Saul Campos Fernández Ph.D. 2001	Department Head, Escuela de Química Universidad de Costa Rica, Costa Rica
20.	Dr. Bradley Smucker, Ph.D. 2002	Associate Professor, Austin College, TX
21.	Dr. Karn Sorasaenee, Ph.D. 2002	Saban Research Inst. at Children's Hospital, USC, CA
22.	Dr. Curtis Berlinguette, Ph.D. 2004	Professor, University of British Columbia, Canada
23.	Dr. Eric Schelter, Ph.D. 2004	Associate Professor, University of Pennsylvania
24.	Dr. Mijeong Kang, Ph.D. 2005	Research Fellow, UCLA, Los Angeles, CA
25.	Dr. Alfredo Angeles-Boza, Ph.D. 2007	Assistant Professor, University of Connecticut
26.	Dr. Brandi Schottel, Ph.D. 2007	Science policy, National Science Foundation Chemical, Bioengineering, Environmental and Transport Systems Division
27.	Dr. Eric Reinheimer, Ph.D. 2007	Manager, Small Molecule Crystallography, Rigaku Americas
28.	Dr. Jessica Daphne Aguirre, Ph.D. 2009	Postdoctoral Fellow, Johns Hopkins U., Baltimore, MD
29.	Dr. Ferdi Karadas, Ph.D. 2009	Assistant Prof, Bilkent University, Turkey
30.	Dr. Matthew Hilfiger, Ph.D. 2010	Petroleum Engineer, Aramco Services Houston, Texas
31.	† Dr. Nazario Lopez, Ph.D. 2010	Asst. Prof., U. Autonoma del Estado de Morelos, Cuernavaca, Mexico
32.	Dr. Carolina Avendano, Ph.D. 2010	Director of Operations, Office of STEM Engagement in the Office of Research, Rice University
33.	Dr. Kristen Chambers Funck, Ph.D. 2010	Assistant Prof., James Madison University
34.	Edward Funck, M.S. 2011	Lab Manager, Piedmont Virginia Community College
35.	Ming Fang Oct 2010-Oct-2011	Research Associate, Nankai University
36.	Dr. Ian Giles, Ph.D, 2012	Research Scientist, Naval Research Laboratories
37.	Sarah Lane, M.S., 2012	Research Scientist, Medicinal Chemistry, AMRI
38.	Dr. Zhongyue Zhang, Ph.D. 2013	Assistant Professor, Nagoya University, Japan
39.	Dr. Heather Southerland, Ph.D., 2013	Saplin Learning Center, Austin, Texas
40.	Dr. Mohamed Saber, Ph.D., 2013	Fayoum University, Fayoum, Egypt
41.	Dr. Bruno Pena-Maceda, Ph.D. 2014	Intel Corporation, Portland, OR
42.	Dr. Zhanyong Li, Ph.D. 2014	UOP-Honeywell Corporation
43.	Dr. Andrew Brown, Ph.D., 2015	Intel Corporation, Phoenix, AZ

44.	† Dr. Amanda David, Ph.D., 2015	Intel Corporation, Phoenix, AZ
45.	Dr. Toby J. Woods, Ph.D., 2016	X-ray Specialist, Dept. of Chemistry, U. of Illinois Urbana Champaign
46.	Dr. Jill Frank Ellenberger, Ph.D., 2016	Assistant Prof., John Brown U., Alabama
47.	Dr. Xuan Zhang, Ph.D., 2016	Postdoctoral Fellow, Northwestern U., Chicago, IL
48.	Dr. Codi Sanders, Ph.D., 2016	Intel Corporation, Portland, OR

Former Postdoctoral Associates:	**Current Position:**
1. Dr. Vijay Saharan, Ph.D. University of Cambridge, 1992	Research Scientist, Delphi Automotive Systems Corporation
2. Dr. Helen Chifotides, NATO Fellow Ph.D. University of Athens, 1993	
3. Dr. Robert A. Heintz, Ph.D. Cornell University, 1995	Applications Chemist, ThermoNicolet, Madison, WI
4. Dr. Rodolphe Clérac Ph.D. Université Bordeaux, France, 1998	CNRS Professor, University of Bordeaux, France
5. Dr. José-Ramón Galán-Mascarós Ph.D. Universidade de Valencia, 1999	ICREA Research Professor and ERCsgt Fellow, Catalan Institution for Research and Advanced Studies (ICREA) & Institute of Chemical Research of Catalonia (ICIQ)
6. Dr. Hitoshi Miyasaki Ph.D. Kyushu University, Japan, 1998	Prof., Tohoku University, Sendai, Japan
7. Dr. Jitendra Bera Ph.D. Indian Institute of Science, India, 1999	Prof., Indian Institute of Technology, Kanpur, India
8. Dr. John Bacsa Ph.D. Univ. of the Witwatersrand South Africa, 1998	X-ray Specialist, Emory University, Atlanta, GA
9. Dr. Abdellatif Chouai Ph.D. University of Houston, 2003	Operations Engineer, BASF Corporation, Geismar, LA
10. Dr. Michael Shatruk Ph.D. Moscow State U., Russia 2001	Professor, Florida State University, Talahassee, FL
11. †Dr. Sofi Bin-Salamon Ph.D., North Carolina State U., 2005	Program Manager, Air Force Research Laboratory Air Force Office of Scientific Research
12. Dr. Eric Reinheimer Ph.D., Texas A&M, 2007	Crystallographer, Rigaku Japan, Woodlands, Texas
13. Dr. Xinyi Wang Ph. D., Peking University, 2006	Professor, Nanjing University, Nanjing, China
14. Dr. Akira Ota, Postdoctoral Research Assoc. Ph. D., Kyoto University, 2006	Entrepreneur, Kyoto, Japan
15. Dr. Andrey Prosvirin, Research Associate Ph. D., Russian Academy of Sciences	Physics Department, TAMU
16. Dr. Dawid Pinkowicz, Marie Curie Fellow Ph.D., Jagiellion U., Poland	Asst. Prof., Jagiellion U., Krackow, Poland
17. Dr. Yuan-Zhu Zhang, Asst. Res. Scientist Ph. D., Peking University, 2006	Asst. Prof., South U. of Science and Technology of China
18. Dr. Helen Chifotides, Research Scientist Ph. D., U. of Athens, Greece 1993	U. of Athens, Greece
19. Dr. Silvia Gomez-Coca Ph.D., U. of Barcelona, 2015	Postdoctoral Researcher, University College London, UK
20. Prof. Hanhua Zhao, Senior Research Asst.	Retired
21. Dr. Dimitrious Alexandropoulos, Ph.D., Brock University, 2016	
22. Dr. Kuduva R.Vignesh, Ph.D., IIT, Bombay, India	Postdoctoral Research Asst. Institute for Molecular Science, Okasaki, Japan

	Former Undergraduates † Minority	**Professional Degree/Position**
1.	† Dr. Hoa Van Nguyen, B.S. 1990	M.D. Michigan State University
2.	† Dr. Renee Cooper, B.S. 1992	M.D. Wayne State University
3.	† Anthony Howard	B.S. Michigan State University
4.	Jennifer Loconto, B.S. 1996	Ph.D. Biochemistry, Harvard University
5.	Dr. John Matonic, B.S. 1992	Ph.D. Inorganic Chemistry, Texas A&M University,1997
6.	Dr. Julia Meinershagen, B.S. 1995	Ph.D. Inorganic Chemistry, Purdue University
7.	† Dr. Daniel Mindiola, B.S. 1996	Ph.D. Inorganic Chemistry, MIT, 2000, Prof. U. of Penn.
8.	Dr. Igor Mochalkin, B.S. 1995	Ph.D. Physical Chemistry, Michigan State University, 1999
9.	†Dr. Stephanie Montgomery	M.D. Wayne State University
10.	Cheryl Myler, B.S. 1999	Ph.D. Biochemistry, University of Michigan
11.	Mark Sislo, B.S. 1999	Ph.D. Michigan State University
12.	Brandon Tackett, REU Student	B.S. Kentucky Wesylan, Ph.D. University of Kentucky
13.	Brook Thomas, B.S. 1992	M.S. Chemical Engineering, Texas A&M University
14.	Dr. Julia Clements-Thomas, B.S. 1992	Ph.D. Inorganic Chemistry, Texas A&M University
15.	Matthew Maloney, B.S. 1998	M.D., University of Michigan
16.	Aurélie Buckelew, B.S. 2001	M.S. Texas A&M University
17.	Derek Vaughn, B.S. 2001	Chemist, Benchmark Research, Houston, TX
18.	†Dr. Carolina Avendano, REU, 2003	Ph.D., Texas A&M University
19.	Kristen Chambers, REU Student, 2003	Ph.D., Texas A&M University
20.	Darryl Stepien, B.S. Chemistry, 2009	Research Chemist, Baker Hughes Corporation, Houston, TX
21.	Codi Sanders, B.S. Chemistry, 2009	Ph.D. Candidate, Texas A&M University
22.	Michael Woodie, B.S. Chemistry, 2010	
23.	Ashley Dittmer, B.S. Chemistry, 2010	United States Air Force
24.	Charles Culbertson, REU, Summer 2013	B.S., Indiana U. Pennsylvania
25.	† Briana Zamora, B.S. Texas A&M, 2013	Development Chemist, Ascend Performance Materials
26.	† Bianca Ramirez, B.S. Texas A&M, 2013	Ph.D. student, Inorganic Chemistry, U. of Minnesota
27.	Connor Daly, REU, Summer 2015	B.S., Shippensburg State U. PA
28.	Zhilin Go, B.S., Nankai University, China	Ph.D. student, South U. of Science and Technology of China
29.	James Hollas	B.S., chemistry, Texas A&M University
30.	†Anastasia Lopez, 2015	B.S., Texas A&M University
31.	Jason McCandless, 2016	B.S., Texas A&M University
32.	†Tia'Asia James, REU, Summer 2106	B.S., chemistry, University of Arkansas U., Pine Bluff
33.	Eryn White, 2016-2017	B.S., chemistry Texas A&M University

Visiting Professor and Scholars

1. Prof. Donald Baird, Visiting Professor, Florida Atlantic University (1/94-6/94)
2. Prof. Hanhua Zhao, Visiting Scholar, Nanjing Normal University, Peoples Republic of China (1/95-3/98)
3. Prof. Il-Wun Shim, Visiting Scholar, Chung-Ang University, Seoul, Korea (1/96-12/96)
4. Prof. Gorden Yee, Visiting Scholar, University of Colorado (8/00)
5. Prof. Larry Falvello, Visiting Scholar, Universidad de Zaragoza, Zaragoza, Spain (6/02-7/02)
6. Prof. Boris Tsukerblat, Visiting Scholar, Ben Gurion Univ. of the Negev, Beer Sheva, Israel (2002, 2004)
7. Prof. Hitoshi Miyasaka, Visiting Scholar, Tokyo Metropolitan University, Tokyo, Japan (2/03)
8. Prof. Kazuko Matsumoto, Visiting Scholar, Waseda University, Tokyo, Japan (3/03)
9. Prof. Gui Li Ning, Visiting Scholar, Dalian University of Technology, Dalian, China (11/03-05/04)
10. Dr. Sergei Ostrovosky, Visiting Scholar, Inst. of Applied Physics, Chisinau, Moldova (9/04-12/04; 06/08)
11. Dr. José Ramón Galán-Mascarós, University of Valencia, Valencia, Spain, (2/05-7/05)
12. Prof. Sophia Klokishner, Inst. of Applied Physics, Academy Sciences, Kishinev, Moldova (7/06; 06/08)
13. Dr. Andrei Palii, Inst. of Applied Physics of the Academy of Sciences, Kishinev, Moldova (7/06; 06/08))
14. Dr. Akira Ota, Tokyo Institute of Technology, Ookayama, Japan (4/07-9/10)
15. Dr. Ahmed Youssef, Faculty of Science – Ain Shams U., Egypt (7/08-4/09).
16. Maria Fernanda Ballesteros Rivas, Visiting Ph.D. Student Intern, Mexico (9/09-9/10).
17. Ming Fang, Visiting Ph.D. Student Intern, Nankai, China (9/10-8/11).
18. Prof. Nataliia Shtemenko, Fulbright Scholar, Ukraine (11/11-4/12).
19. Dr. Qing-lun Wang, Visiting Chinese Scholar, Nankai University (4/11-2/12).
20. Prof. Anne Richards, Visiting Professor, LaTrobe University, Australia (1/13-4/13).
21. Prof. Natliia Shetemenko, Visiting Professor, Dnipropetrovs'k National University (1/13-4/13)
22. Prof. Alexander Shetemenko, Visiting Prof., Dept. of Chem, Dnipropetrovs'k National University (1/13-4/13)
23. Zhaoyang Li, Visiting Ph.D. Student Scholar, Kyushu University, Japan (10/12-3/13)
24. Dr. Dawid Pinkowicz, Marie Curie Fellow, Asst. Professor, Jagiellion U., Krackow, Poland (10/12-9/13)
25. Sara Goberna-Ferron, Visiting Ph.D. Student Scholar, ICIQ, Catalonia (5/13-8-13)
26. Prof. Zhao-Xi Wang, Visiting Professor, Department of Chemistry, Shanghai University (10/13-9/14)
27. Abdullahi Rajee Ola, Visiting Fulbright Scholar, Nigeria (9/15-06/16)
28. Prof. Yue Ma, Visiting Professor, Nankai U., China (9/15-9/16)
29. Prof. Min-Xia Yao, Visiting Professor, Nanjing Tech U., China (9/16-8/17)
30. Dr. Suijun (Frank) Liu, Visiting Scholar, Jiangxi U of Science and Technology (4/17-3/18)
31. Dr. Mei Zhu, Visiting Professor, Zhejiang Sci-Tech University, (3/18-8/18)

DUNBAR GRADUATE STUDENTS 1987 – present

	MSU STUDENTS 1987-1999	PROGRAM	SECOND READER	YEAR OF DEGREE
1.	Jun Liu	M.S.	Eick	1989
2.	Sue-Jane Chen	Ph.D.	Kanatzidis	1991
3.	Steven C. Haefner	Ph.D.	Nocera	1992
4.	Anne Quillevéré	Ph.D.	Kanatzidis	1992
5.	Laura E. Pence	Ph.D.	Pinnavaia	1992
6.	Stacey N. Bernstein	M.S.	Nocera	1993
7.	Stuart L. Bartley	Ph.D.	Pinnavaia	1993
8.	Jui-Sui Sun	Ph.D.	Kanatzidis	1994
9.	Calvin Ulzemeier	Ph.D.	Smith	1998
10.	Kemal Catalan	Ph.D.	Kanatzidis	1998
11.	Elizabeth Lozada	M.S.	Blanchard	1998
12.	Jennifer Hess	M.S.	Broderick	1998
13.	Xiang Ouyang	Ph.D.	Smith	1999
14.	Shannon O'Kane	M.S.	Kanatzidis	1999
15.	Matthew Prater	Ph.D.	Kanatzidis	withdrew
16.	Amanda Walton	M.S.	Pinnavaia	2000
17.	Cristian Fernandez Campos	Ph.D.	Smith	2001
18.	Paul Szalay	Ph.D.	Smith	2001
19.	Jennifer Smith	Ph.D.	Kanatzidis	2001
20.	Karn Sorasaenee	Ph.D.	Advisor	2002
21.	Bradley Smucker	Ph.D.	Advisor	2002
22.	Curtis Berlinguette	Ph.D.	Advisor	2004
23.	Eric Schelter	Ph.D.	Advisor	2004
24.	Mervin Bazile	Ph.D.	Advisor	deceased
20.	Karn Sorasaenee	Ph.D.	Advisor	2002
21.	Bradley Smucker	Ph.D.	Advisor	2002
22	Curtis Berlinguette	Ph.D.	Advisor	2004
23.	Eric Schelter	Ph.D.	Advisor	2004
24.	Mervin Bazile	Ph.D.	Advisor	deceased

25.	Mijeong Kang	Ph.D.	Advisor	2005
26.	Alfredo Angeles Boza	Ph.D.	Advisor	2007
27.	Eric Reinheimer	Ph.D.	Advisor	2007
28.	Brandi Schottel	Ph.D.	Advisor	2007
29.	Jessica Aguirre	Ph.D.	Advisor	2009
30.	Ferdi Karadas	Ph.D.	Advisor	2009
31.	Carolina Avendano	Ph.D.	Advisor	2010
32.	Nazario Lopez	Ph.D.	Advisor	2010
33.	Matthew Hilfiger	Ph.D.	Advisor	2010
34.	Kristen Funck	Ph.D.	Advisor	2010
35.	Edward Funck	M.S.	Advisor	2011
36.	Ian Giles	Ph.D.	Advisor	2012
39.	Sarah Lane	M.S.	Advisor	2012
38.	Heather Southerland	Ph. D.	Advisor	2013
40.	Zhongyue Zhang	Ph. D.	Advisor	2013
41.	Mohamed Saber	Ph.D.	Advisor	2013
42.	Zhanyong Li	Ph.D.	Advisor	2014
43.	Bruno Pena – Maceda	Ph.D.	Advisor	2014
44.	Andrew Brown	Ph.D.	Advisor	2015
45.	Amanda David	Ph.D.	Advisor	2015
46.	Codi Anne Sanders	Ph. D.	Advisor	2016
47.	Toby Woods	Ph.D.	Advisor	2016
48.	Xuan Zhang	Ph.D.	Advisor	2016
49.	Jill Frank	Ph.D.	Advisor	2016
50.	Francisco Birk	Ph.D.	Advisor	7th year
51.	David Kempe	Ph.D.	Advisor	7th year
52.	Sayan Saha	Ph.D.	Advisor	6th year
53.	Kelsey Schultz	Ph.D.	Advisor	5th year
54.	Ryan Coll	Ph.D.	Advisor	5th year
55.	Haomiao Xie	Ph. D.	Advisor	5th year

57.	Agustin Millet	Ph.D.	Advisor	4th year
58.	Ellen Song	Ph.D.	Advisor	3rd year
59.	An Vu	Ph.D.	Advsior	3rd year
60.	Matthew Brewer	Ph.D.	Advisor	Left program

MEMBERSHIP ON GRADUATE STUDENT COMMITTEES

	MSU STUDENT	ADVISOR	PROGRAM AND AREA	STATUS ON COMMITTEE	COMPLETED
1.	Hyungrok Kim	Pinnavaia	Ph.D., inorganic	Second Reader	X
2.	Thomas Brewer	Pinnavaia	Ph.D., inorganic	Second Reader	X
3.	Judith Eglin	Dye	Ph.D., physical	Second Reader	X
4.	Ronald Lopshire	Enke	Ph.D., analytical	Member	X
5.	William Watt	Tulinsky	Ph.D., physical	Member	X
6.	Evaldo de Armas	LeGoff/Gaudiello	Ph.D., analytical	Member	X
7.	Line Le Blevenec	Gaudiello	Ph.D., analytical	Member	X
8.	Kuo-Lih Tsai	Dye	Ph.D., physical	Second Reader	X
9.	Pascal Rigollier	Stille	Ph.D., organic	Member	X
10.	Colleen Partiagioni	Nocera	Ph.D., inorganic	Second Reader	X
11.	Younkyoo Kim	Babcock	Ph.D., physical	Member	X
12.	Fernando Herrara	Harrison	Ph.D., physical	Member	X
13.	Yong Zhang	Babcock	M.S., physical	Member	X
14.	Songping Huang	Kanatzidis	Ph.D., inorganic	Second Reader	X
15.	John Young	Stille	Ph.D., organic	Member	X
16.	Songzhan Huang	Dye	Ph.D., physical	Member	X
17.	Janice Kadis	Nocera	Ph.D., inorganic	Second Reader	X
18.	Yuanda Zhang	Hollingsworth	Ph.D., biochemistry	Member	X
19.	Xiayang Qiu	Tulinsky	Ph.D., physical	Member	X
20.	Anthony Sutorik	Kanatzidis	Ph.D., inorganic	Second Reader	X
21.	Art Harms	Stille	Ph.D., organic	Member	X
23.	Robert Smart	Wagner	Ph.D., organic	Member	X
24.	Xusheng Xie	Babcock	Ph.D., physical	Member	X
25.	Carolyn Hsu	Nocera	Ph.D., inorganic	Second Reader	X
26.	Lars Beholz	Stille	Ph.D., organic	Member	X
27.	Ann Macintosh	Nocera	Ph.D., inorganic	Second Reader	X
28.	Chenggang Wang	Kanatzidis	Ph.D., inorganic	Second Reader	X
29.	Nancy Barta	Stille	Ph.D., organic	Member	X

31.	Carol Walters	Stille	Ph.D., organic	Member	X
32.	Brian Kirk	Stille	M.S., organic	Member	X
33.	Ali Zand	Wagner	Ph.D., organic	Member	X
34.	Marie Migaud	Frost	Ph.D., organic	Member	X
35.	James Roberts	Nocera	Ph.D., inorganic	Member	X
36.	Sara Helvoigt	Nocera	Ph.D., inorganic	Second Reader	X
37.	Jason Hanko	Kanatzidis	Ph.D., inorganic	Second Reader	X
38.	William Scanlon	Smith	M.S., inorganic	Second Reader	X
39.	Dean Lantero	Smith	Ph.D., inorganic	Second Reader	X
40.	Thomas Pauly	Pinnavaia	Ph.D., inorganic	(withdrawn - moved A&M)	X
41.	Gwynne Osaki	Babcock	Ph.D., physical	(withdrawn)	X
42.	Seaver Shieh	LeGoff	Ph.D., organic	(withdrawn)	X
43.	Carl Iverson	Smith	Ph.D., inorganic	Second Reader	X
44.	Dean Lantero	Smith	Ph.D., inorganic	Second Reader	X
45.	Gabriela Pistia	Hollingsworth	Ph.D., organic	(withdrawn)	X
46.	Mihai Polverejan	Pinnavaia	Ph.D., inorganic	(withdrawn)	X
47.	Joseph Ward	Maleczka	Ph.D., organic	(withdrawn)	X
48.	Igor Mochalkin	Tulinsky	Ph.D., physical	(withdrawn)	X
50.	John Asara	Allison	Ph.D., analytical	Member	X
51.	Stacey DeWees	Geiger	Ph.D., physical	(withdrawn)	X
52.	Gao Liu	Baker	Ph.D., organic	(withdrawn)	X
53.	John Koomen	Russell	Ph.D., analytical	Member	X
54.	Carmela Magliocchi	Hughbanks	Ph.D., inorganic	Member	X
55.	Panagiotis Angaridis	Cotton	Ph.D., inorganic	Member	X
56.	Damon Billodeaux	D. Darensbourg	Ph.D., inorganic	Member	X
57.	Ryan Mackiewicz	D. Darensbourg	Ph.D., inorganic	Member	X
58.	Cynthia Samples	DeRose	Ph.D., inorganic	Member	X
59.	Karen Steelman	Rowe	Ph.D., analytical	Member	X
60.	Jun-Byoung Oh	Wiggins	Ph.D., economics	GCR	X

61.	Bing Bai	Naugle	M.S., physics	Member	X
62.	Kira Leck	Simpson	Ph.D., philosophy	GCR	X
63.	Stephen Jeffery	M. Darensbourg	Ph.D., inorganic	Member	X
64.	Ji Chi	Ross	M.S., physics	Member	X
65.	Sergey Ibragimov	Cotton	Ph.D., inorganic	Member	X
66.	Joel Means	Teizer	Ph.D., physics	Member	X
67.	Jeffrey J. Wegener	McDeavitt	Ph.D., Materials Science	Member	X
68.	Arlene Ford	Teizer	M.S., physics	Member	X
69.	Lucas Sweet	Hughbanks	Ph.D., inorganic	Member	X
70.	Thomas Taylor	Gabbai	Ph.D., inorganic	Member	X
71.	Aurelie Buckelew	DeRose	M.S., inorganic	Member	X
72.	Rongmin Yu	Cotton	Ph.D., inorganic	Member	X
73.	Dongmin Seo	Teizer	M.S., physics Ph.D., physics	Member	X
74.	Yolanda Vasquez	Schaak	Ph.D., inorganic	Member	X
75.	Rob Cable	Schaak	Ph.D., inorganic	Member	X
76.	Brian Leonard	Schaak	Ph.D., inorganic	Member	X
77.	Elky Almarez	M. Darensbourg	Ph.D., inorganic	Member	X
78.	Chris Fewox	Clearfield	M.S., inorganic	Member	X
79.	Nam Hawn Chou	Schaak	Ph.D.	Member	Moved to Penn State
80.	Ryan Kuppler	Zhou	M.S.	Member	X
81.	Trevor Makal	Zhou	Ph.D.	Member	X
82.	Rodrigo Ramirez	Ozerov	Ph.D.	Member	X
83.	Francisco Escobedo	Hughbanks	Ph.D.	Member	X
84.	Stephen Fordham	Zhou	Ph.D.	Member	X
85.	Xuan Wang	Zhou	Ph.D.	Member	X
86.	Zachary Perry	Zhou	Ph.D.	Member	Prelim done
87.	Adriana Hampton	Gabbai	Ph.D.	Member	Changed her degree
88.	Rachel Chupik	M. Darensbourg	Ph.D.	Member	X
89.	Allen Lunsford	M. Darensbourg	Ph.D.	Member	X
90.	Shin Hye (Grace) Ahn	Bluemel	Ph.D.	Member	X

91.	Alexander Estrada	Bluemel/Gladysz	Ph.D.	Member	Prelim done
92.	Lanfang Zou	Zhou	Ph.D.	Member	X
93.	Kecheng Wang	Zhou	Ph.D.	Member	X
94.	Qingheng Lai	Ozerov	Ph.D.	Member	Prelim done
95.	Junsang Cho	Banerjee	Ph.D.	Member	Prelim done
96.	Melih Baci	Zhou	Ph.D.	Member	Prelim done
97.	Yingmu Zhang	Zhou	Ph.D.	Member	Prelim done
98.	Patrick J. Hubbard	Bluemel	Ph.D.	Member	
99.	Trevor Latendresse	Nippe	Ph.D.	Member	Prelim done
100.	Christina Lollar	Zhou	Ph.D.	Member	
101.	Anuvab Das	Powers	Ph.D.	Member	Prelim done
102.	Carolyn Gunthardt	North	Ph.D.	Member	
103.	Jordan Benzie	Bluemel	Ph.D.	Member	Prelim done
104.	Andreas Ehnbom	Gladysz/Hall	Ph.D.	Member	Prelim done
105.	Yihan Cao	Ozerov	Ph.D.	Member	
106.	Kevin Jack	Gabbai	Ph.D.	Member	
107.	Branford Wilkins	Nippe	Ph.D.	Member	
108.	Yanwu Shao	Ozerov	Ph.D.	Member	

Sponsorship of Graduate Student Dissertations (44 students total as of 2018)

Sue-Jane Chen (PhD) – 1991 – New synthetic approaches to reactive mixed-ligand complexes at the interface of coordination and organometallic chemistry

Anne Quillevere (PhD) – 1992 – New approaches to the mononuclear and heteropolynuclear chemistry of 3d metals with a highly basic functionalized ligand

Laura Ellen Pence (PhD) – 1992 – Solvated cations with metal-metal bonds: Design strategies and reactivity of a new class of coordination compounds

Stacey Nanette Bernstein (MS) – 1992 – Synthesis of novel mixed-metal oxide materials from salts comprised of dinuclear homoleptic acetonitrile metal cations and polyoxometalate anions

Steven Christopher Haefner (PhD) – 1993 – Organometallic, coordination and redox chemistry of rhodium(II)metalloradical species supported by an oxygen funchtionalized triaryl phosphine

Stuart Louis Bartley (PhD) – 1993 – Metal-metal bonded complexes in extended molecular arrays

Jui-Sui Sun (PhD) – 1994 – Chemistry of low valent metal carbonyl, nitrile, and halide complexes with a bulky oxygen functionalized phosphine ligand

Calvin Uzelmeier (PhD) – 1998 – Coordination chemistry of chelating phosphines: Stabilization of metalloradicals and the elaboration of extended arrays

Elizabeth Lozada Carrasco (MS) – 1998 – Proton NMR spectroscopic studies of dinuclear transition metal carboxylase adducts of DNA oligonucleotides

Jennifer Simone Hess (MS) – 1998 – Interactions of dinuclear transition metal complexes with amino acids, nucleotides, and DNA

Kemal V. Catalan (PhD) – 1999 – Interactions of Dinuclear Transition Metal Compounds with DNA Nucleobases and Related Nitrogen Donor Ligands.

Shannon Ann O'Kane (MS) – 1999 – Synthesis and characterization of binary materials composed of transition metals coordinated to the organic acceptor TCNQ

Xiang Quyang (PhD) – 2000 – Extended molecular arrays of transition metal complexes with polynitrile ligands

Cristian Saul Campos Fernandez (PhD) – 2001 – Clusters and extended arrays with metal ions and nitrogen donor ligands

Paul S. Szalay, Jr. (PhD) – 2001 – Cyanide and nitrile compounds with applications in materials and cluster chemistry

Jennifer Ann Smith (PhD) – 2002 – Magnetic architectures based on metal cyanide interactions: Mixed metal clusters and polymeric arrays

Bradley William Smucker (PhD) – 2002 – New types of transition metal complexes with redox active sulfur- and nitrogen-based ligands

Sponsorship of Graduate Student Dissertations (continued)

Karn Sorasaenee (PhD) – 2003 – Coordination chemistry of anticancer active dirhodium complexes with N-based and S-based biomolecules and model ligand systems

Curtis Paul Berlinguette (PhD) – 2004 – Nanomagnetic molecular materials based on the hexacyanometallate building block: The preparation and characterization of high-spin cluster and chain compounds

Eric John Schelter (PhD) – 2004 – Cyanide clusters of Re^{II} with 3d metal ions and their magnetic properties: incorporating anisotropic ions into metal-cyanide clusters with high spin magnetic ground states

Mijeong Kang (PhD) – 2005 – Reactivity Studies of Antitumor Active Dirhodium Compounds with Oligonucleotides

Alfredo Angeles-Boza (PhD) – 2007 – A new Class of Dirhodium Compounds with an electron acceptor ligand.

Brandi Schottel (PhD) – 2007 – The influence of Anion-Pi interactions between Multi-atomic anions and pi-acidic ring systems on the self assembly of coordination compounds

Eric Reinheimer (PhD) – 2007 – Inorganic-Organic, Organic Charge Transfer and Radical Based Compounds
with Chalcofulvalene Donors and Organic Acceptors

Jessica Dafhne Aguirre (PhD) – 2009 - Stucture Property Relations for Dirhodium Antitumor Active Compounds: Reactions with Biomolecules and in Cellulo Studies

Ferdi Karadas (PhD) – 2009 – Preparation and Characterization of Cyanide-Bridged Molecular Clusters and Extended Networks Using the Building-Block Approach

Matthew Hilfiger (PhD) – 2010 – Incorporation of 4d and 5d Transition Metal Cyanometallates into Magnetic Clusters and Materials

Nazario Lopez (PhD) – 2010 – Tuning the Properties of Molecular Magnets and Conductors Based on Lanthanide and Transition Metal Ions Bridged by TCNQ Derivatives or Cyanometallate Ligands by Varying the Dimensionality of the Structure and Metal Ion Identity

Carolina Avendano (PhD) – 2010 – Cyanide Bridged Molecular Magnetic Materials with Transition Metals Ions that Exhibit Strong Spin-Orbit Coupling: Investigation of Bistable Magnetic Phenomena

Kristen Chambers Funck (PhD) – 2010 – Magnetic Properties and Reactivity Studies of Families of Trigonal Bipyramidal Cyanide Bridged Clusters

Edward Sterling Funck (MS) – 2011 – Investigation of Anion-pi Interactions in Inorganic, Organic, and Biological Systems

Ian Derek Giles (PhD) – 2012 – Experimental and Theoretical Investigations of Anion-pi Interactions in Architectures of First-Row Transition Metals and N-Heteroaromatic Ligands

Sponsorship of Graduate Student Dissertations (Continued)

Sarah Lane (MS) – 2012 – Synthesis, Characterization and Toxicity Studies of Dirhodium and Diiridium Metal-Metal Bonded Anti-Cancer Compounds

Zhongyue Zhang (PhD) – 2013 – New Conducting and Electrically Switching Molecular Materials Based on Main Group and Transition Metals Bridged by TCNQ Derivatives

Heather Southerland (PhD) – 2013 – Investigation of Molecular Magnetic Compounds Incorporating 4d and 5d Transition Metal Cyanometallates

Mohamed R. M. Saber (PhD) – 2013 – Enhancing Magnetic Properties of Molecular Magnetic Materials: The Role of Single Ion Anisotropy

Bruno Peña-Maceda (PhD) – 2014 – New Directions for Cancer Drug research of Rhodium and Ruthenium Compounds: Investigation of Cytotoxities, Mechanisms of Cancer Cell Death and Cellular Targets

Zhanyong Li (PhD) – 2014 – Synthesis, Characterization and Investigation of Metal-Metal Bonded Dirhodium Complexes with Unusual Electronic and Physical Properties.

Andrew J. Brown (PhD) – 2015 – A Modular Approach to Bistable Molecular Magnets of Molecules and Extended Architectures

Amanda David (PhD) – 2015 – Biological Studies of Dirhodium(II,II) Compounds and Their Applications as Photochemotherapeutic Agents

Xuan Zhang (PhD) – 2016 – Hybrid Magnetic and Semiconducting Materials Based on Organocyanide Electron Acceptors and Metal Complexes

Toby J. Woods (PhD) – 2016 – Electronic Control of the Magnetic Properties of First-Row Transition Metal Complexes

Jill Frank Ellenberger (PhD) – 2016 – Theoretical and Experimental Investigations of Anion-pi Interactions in Inorganic and Biological Supramolecular Architectures

Codi Anne Sanders (PhD) – 2016 – Investigation of Magnetic Behavior and the Tuning of Spin-Transitions and Redox Properties in Pentanuclear Cyanide Architectures