

WENFANG SUN, Ph. D.

James A. Meier Senior Professor and Walter F. and Verna Gehrts Professor, Department of Chemistry and Biochemistry, North Dakota State University, 258 Dunbar Hall, Fargo, ND 58108-6050. Phone: (701) 231-6254; Fax: (701) 231-8831; E-mail: Wenfang.Sun@ndsu.edu

EDUCATION

Ph.D. Organic Chemistry, Institute of Photographic Chemistry, Chinese Academy of Sciences, Beijing, China, July 1995

Ph.D. Dissertation: *Asymmetric Pentaazadentate Porphyrin-like Metal Complexes: Synthesis, Excited-State Properties, and Applications for Optical Limiting and Photodynamic Therapy*

B.S. Organic Chemistry, Wuhan University, Wuhan, China, July 1990

RESEARCH INTERESTS

- Organic/organometallic nonlinear optical materials
- Organic/organometallic light emitting materials
- Photosensitizers for photodynamic therapy
- Optical sensors

PROFESSIONAL EXPERIENCE

2016 – 2019	<i>James A. Meier Senior Professor</i> , Department of Chemistry and Biochemistry, North Dakota State University, Fargo, ND
2011 – 2013	<i>Walter F. and Verna Gehrts Professor</i> , Department of Chemistry and Biochemistry, North Dakota State University, Fargo, ND
2011 – present	<i>Professor</i> , Department of Chemistry and Biochemistry, North Dakota State University, Fargo, ND
2013 – present	<i>Editorial Board Member</i> , JSM Chemistry
2011 – present	<i>Editorial Board Member</i> , Reports in Theoretical Chemistry
2011 – present	<i>Editorial Board Member</i> , Organic Chemistry: Current Research
2011 – present	<i>Editorial Board Member</i> , Mediterranean Journal of Chemistry
July 2013 – present	<i>Guest Professor</i> , Jiangnan University, China
June 2011 – present	<i>Guest Professor</i> , Jiangsu University, China
Jan. 2009 – present	<i>Guest Professor</i> , College of Chemical Sciences, Wuhan University, China
July 2009 – Aug. 2009	<i>Visiting Professor</i> , College of Physics, Peking University, China
Aug. 2007 – 2011	<i>Associate Professor</i> , Department of Chemistry and Biochemistry, North Dakota State University, Fargo, ND
Aug. 2001 – July 2007	<i>Assistant Professor</i> , Department of Chemistry and Molecular Biology, North Dakota State University, Fargo, ND

- Synthesis and characterization of transition-metal terdentate complexes, expanded metalloporphyrins and stilbazolium derivatives for optical limiting applications.

- Development of rare-earth expanded porphyrins for photodynamic therapy and near-IR diagnosis applications.
- Investigation of the two-photon absorption and two-photon induced upconverted fluorescence of stilbazolium derivatives.
- Investigation of optical properties of semiconductor nanoparticles and single functionalized gold nanoparticle/polymer hybrid materials.
- Synthesis and photophysical studies of organometallic complexes for optical sensing and photovoltaic cell applications.
- Supervised 7 postdoctors, 1 visiting scholar, 6 graduate students, 3 visiting graduate students, 12 undergraduate students, 1 high school teacher, and 3 high school students.
- Taught undergraduate and graduate organic chemistry courses.

Aug. 1997 – July 2001 Department of Physics, University of Alabama at Birmingham, Birmingham, AL

Research Assistant Professor
Postdoctoral Research Associate

Aug. 1999 – July 2001
Aug. 1997 – July 1999

- Investigated and characterized third-order nonlinearities of metal-organic complexes, such as molybdenum-phosphine related complexes, metallo-porphyrin-like complexes, for optical power limiting applications using degenerate four wave mixing (DFWM), Z-scan and nonlinear absorption techniques.
- Explored the relationship between chemical structure and optical limiting properties of the metallo-porphyrin-like complexes in nanosecond time scale.
- Found the oxidative enhancement of the third-order nonlinearity of molybdenum-phosphine related complexes, and demonstrated that degenerate four wave mixing spectroscopy can be used as a very sensitive technique to monitor trace chemical changes in solutions.
- Supervised two graduate students in material characterization and one undergraduate student in organic synthesis.

Sept. 1990 – July 1997 Institute of Photographic Chemistry, Chinese Academy of Sciences, Beijing, China

Associate Professor
Assistant Professor
Graduate Research Assistant

Oct. 1996 – July 1997
Aug. 1995 – Sept. 1996
Sept. 1990 – July 1995

- Designed and synthesized thirteen novel pentaazadentate porphyrin-like metal complexes. Characterized these complexes by IR, UV-VIS, ¹H-NMR, MS and elemental analysis.
- Systematically studied the photophysical properties of the synthesized complexes by UV-Vis spectroscopy, fluorescence spectroscopy and laser flash photolysis technique. Explored the relationship between chemical structure and electronic absorption spectra as well as excited state properties of these complexes.
- Investigated the photosensitizing damage of porphyrin-like rare-earth complexes to murine ascitic hepatoma (AH) cells and AH solid tumors *in vitro* and *in vivo*, respectively. Discovered the photosensitization mechanism for photodynamic therapy using ESR spectroscopy.
- Characterized the third-order nonlinear optical (NLO) properties of the synthesized complexes using degenerate four wave mixing (DFWM), Z-scan, and nonlinear absorption techniques in nanosecond, picosecond and femtosecond time scales, respectively. Performed the optical power limiting of some of the promising

complexes based on the reverse saturable absorption and transverse nonlinear refraction characteristics. Explored the relationship between chemical structures and the third-order nonlinearities of the synthesized complexes in femtosecond time scale.

- Supervised one graduate student and three undergraduate students in organic synthesis and material characterization.

Jan. 1990 – July 1990 Department of Chemistry, Wuhan University, Wuhan, China

Undergraduate Research Assistant

- Modified the structure of natural stevioside. Characterized the new product by IR, ¹H-NMR, MS spectroscopies and elemental analysis.

TEACHING EXPERIENCE

- CHEM 341, Organic Chemistry I, Spring 2008, Fall 2008, Spring 2010, Fall 2013
- CHEM 342, Spring 2011, Spring 2012, Spring 2015
- CHEM 744, Organic Spectroscopy, Spring 2004, 2005, 2006, 2007, 2009, 2014
- CHEM 754, Organic Spectroscopy Lab., Spring 2004, 2005, 2006, 2007, 2009, 2014
- CHEM 240, Survey of Organic Chemistry, Fall 2003, 2004, 2006
- CHEM 741, Physical Organic Chemistry, Fall 2002, 2005, 2007, 2010, 2011, 2012, 2014
- CHEM 743, Special Topics in Materials Chemistry, Spring 2002
- CHEM 341L, Organic Chemistry I Lab, Spring 2002, 2003, 2004, 2005, 2006, Fall 2003, 2004, 2005
- CHEM 353, Organic Chemistry I Lab for Chemistry Majors, Fall 2003, 2004, 2005
- CHEM 342L, Organic Chemistry II Lab, Spring 2011
- CHEM 354, Organic Chemistry II Lab for Chemistry Majors, Spring 2011, 2016

AWARDS/HONORS

- James A. Meier Senior Professor (2016 – 2019)
- Tianjin 1000 Talent Professor, P. R. China (2016-2019)
- Diversity Impact Award (2014)
- Waldron Award for Outstanding Research (2012)
- Walter F. and Verna Gehrts Presidential Professor (2011-2013)
- Sudhir Mehta Memorial Faculty International Travel Award (2011)
- “100 Talent” expert, Hubei Province, P.R. China (2011)
- NDSU Bison Ambassadors Apple Polisher Honoree (“an event created and sponsored by the Bison Ambassadors, serves to honor distinguished NDSU faculty and staff”) (2009)
- NDSU FORWARD Leap Research Award (2009)
- Member of the ND Delegation to the National EPSCoR/IDeA Coalition Conference (2008)
- NDSU College of Science and Mathematics Award for Excellence in Research (2007)
- NSF CAREER Award, 2005 – 2010
- NDSU Featured Faculty (April, 2006)
- Sigma Pi Sigma (National Physics Honor Society)
- Sigma Xi (The International Honor Society for Science and Technology)
- Chinese Academy of Sciences Natural Science Award, 2nd-Class (2001)
- Outstanding Visiting Scholar Award at the University of Alabama at Birmingham (1999)
- Excellent Presidential Award of Chinese Academy of Sciences (1995)
- YILIDA Prize of Chinese Academy of Sciences (1995)
- First Prize at the Youth Academic Symposium of Institute of Photographic Chemistry, Chinese Academy of Sciences (1994 and 1996)

- Outstanding Undergraduate Student Award at Wuhan University (1987, 1988 and 1989)
- First-class Scholarship for undergraduate students at Wuhan University (1987, 1988 and 1989)

PROFESSIONAL AFFILIATIONS

- American Chemical Society
- Materials Research Society
- Inter-American Photochemical Society
- Chinese-American Chemistry and Chemical Biology Professor Association

PUBLICATIONS (Peer-Reviewed) (* indicates the corresponding author. The numbers of citations are listed in parenthesis in red. H-index: 24)

1. Z. Li, H. Li, B. J. Gifford, W. D. N. Peiris, S. Kilina, W. Sun*, “Synthesis, Photophysics, and Reverse Saturable Absorption of 7-(Benzo[thiazol-2-yl]-9,9-di(2-ethylhexyl)-9H-fluoren-2-yl Tethered [Ir(bpy)(ppy)₂]₂PF₆ and Ir(ppy)₃ Complexes (bpy = 2,2'-Bipyridine, ppy = 2-Phenylpyridine)”, *RSC Advances* **6**, 41214 - 41228 (2016).
2. W. Sun*, C. Pei, T. Lu, P. Cui, Z. Li, C. McCleese, Y. Fang, S. Kilina, Y. Song, C. Burda, “Reverse saturable absorbing cationic iridium(III) complexes bearing 2-(2-quinolinyl)quinoxaline ligand: Effects of different cyclometalating ligands on the linear and nonlinear absorption”, *J. Mater. Chem. C* **4**, 5059-5072 (2016).
3. T. Lu, C. Wang, L. Lystrom, C. Pei, S. Kilina, W. Sun*, “Effects of extending the π -conjugation of the acetylide ligand on the photophysics and reverse saturable absorption of Pt(II) bipyridine bis(acetylide) complexes”, accepted by *Phys. Chem. Chem. Phys.* DOI: 10.1039/C6CP02628A (2016).
4. C. Wang, L. Lystrom, H. Yin, M. Hetu, S. Kilina, S. A. McFarland, W. Sun*, “Increasing the triplet lifetime and extending the ground-state absorption of biscyclometalated Ir(III) complexes for reverse saturable absorption and photodynamic therapy applications”, accepted by *Dalton Trans.* DOI: 10.1039/C6DT02416E (2016).
5. B. Liu, L. Lystrom, S. Kilina, W. Sun*, “Tuning the Ground State and Excited State Properties of Monocationic Iridium(III) Complexes by Varying the Site of Benzannulation on Diimine Ligand”, submitted to *Angew. Chemie. Int. Ed.* (2016).
6. X. Zhu, L. Lystrom, S. Kilina, W. Sun*, “Modifying the Photophysics and Reverse Saturable Absorption of Heteroleptic Cationic Iridium(III) Complexes via Substituents on the 6,6'-Bis(fluoren-2-yl)-2,2'-biquinoline Ligand”, submitted to *Inorg. Chem.* (2016).
7. R. Liu, N. Dandu, C. McCleese, Y. Li, T. Lu, H. Li, D. Yost, C. Wang, S. Kilina, C. Burda, W. Sun*, “Influence of Naphthalimidide Substituent at the Diimine Ligand on the Photophysics and Reverse Saturable Absorption of Pt(II) Diimine Complexes and Cationic Ir(III) Complexes”, *Eur. J. Inorg. Chem.* Issue 31, 5241-5253 (2015). (1)
8. C. Pei, P. Cui, C. McCleese, S. Kilina, C. Burda, W. Sun*, “Heteroleptic Cationic Iridium(III) Complexes Bearing Naphthalimidyl Substituents: Synthesis, Photophysics and Reverse Saturable Absorption”, *Dalton Trans.* **44**, 2176-2190 (2015). (1)
9. T. M. Pritchett,* M. J. Ferry, W. M. Shensky III, A. G. Mott, D. J. Stewart, S. L. Long, J. E. Haley, Z. Li, W. Sun, “Strong triplet excited-state absorption in a phenanthrolyl iridium(III) complex with benzothiazolylfluorenyl-substituted ligands”, *Opt. Lett.* **40**(2), 186–189 (2015). (2)

10. T. M. Pritchett,* M. J. Ferry, A. G. Mott, W. Shensky III, J. E. Haley, R. Liu, W. Sun, “Long-lifetime reverse saturable absorption in a bipyridyl platinum(II) complex bearing naphthalimidylethynyl-substituted fluorenylacetylide ligands”, *Opt. Mater.* **39**, 195-198 (2015). (2)
11. Y. Li, N. Dandu, R. Liu, S. Kilina, W. Sun,* “Synthesis and Photophysics of Reverse Saturable Absorbing Heteroleptic Iridium(III) Complexes Bearing 2-(7-R-Fluoren-2'-yl)pyridine Ligands”, *Dalton Trans.* **43**(4), 1724-1735 (2014). (8)
12. Y. Li, N. Dandu, R. Liu, Z. Li, S. Kilina, W. Sun,* “Effects of Extended π -Conjugation in Phenanthroline (N^N) and Phenylpyridine (C^N) Ligands on the Photophysics and Reverse Saturable Absorption of Cationic Heteroleptic Iridium(III) Complexes”, *J. Phys. Chem. C* **118** (12), 6372–6384 (2014). (13)
13. X.-G. Liu, W. Sun,* “Synthesis, Photophysics, and Reverse Saturable Absorption of Bipyridyl Platinum (II) Bis(acetylide) Complexes Bearing Aromatic Electron-withdrawing Substituents on the Acetylide Ligands”, *J. Phys. Chem. A* **118**(45), 10318-10325 (2014). (3)
14. L. Hu, C. Pei, Z. Li, C. Wang, G. Yang, W. Sun,* “Synthesis and photophysics of a broadband absorbing Texaphyrin derivative with attached Rhodamine 6G motif”, *Org. Chem. Front.* **1** (5), 506-514 (2014).
15. F. Deng, W. Sun, F. N. Castellano,* “Texaphyrin Sensitized Near-IR-to-Visible Photon Upconversion”, *Photochem. Photobiol. Sci.* **13**(5), 813-819 (2014). (8)
16. R. Liu, Y. Li, J. Chang, E. R. Waclawik, W. Sun,* “Pt(II) Bipyridyl Complexes Bearing Substituted Fluorenyl Motif on the Bipyridyl and Acetylide Ligands: Synthesis, Photophysics and Reverse Saturable Absorption”, *Inorg. Chem.* **53**(18), 9516-9530 (2014). (4)
17. R. Liu, N. Dandu, J. Chen, Y. Li, Z. Li, S. Liu, C. Wang, S. Kilina, B. Kohler, W. Sun,* “Influence of different diimine (N^N) ligands on the photophysics and reverse saturable absorption of heteroleptic cationic iridium(III) complexes bearing cyclometalating 2-{3-[7-(benzothiazol-2-yl)fluoren-2-yl]phenyl}pyridine (C^N) ligands”, *J. Phys. Chem. C* **118**(40), 23233-23246 (2014). (7)
18. Z. Li, P. Cui, C. Wang, S. Kilina, W. Sun,* “Nonlinear Absorbing Cationic Bipyridyl Iridium(III) Complexes Bearing Cyclometalating Ligands with Different π -Conjugations: Synthesis, Photophysics, and Reverse Saturable Absorption”, *J. Phys. Chem. C* **118**(49), 28764-28775 (2014). (4)
19. R. Liu, H. Chen, J. Chang, Y. Li, H. Zhu,* W. Sun,* “Pt(II) Diimine Complexes Bearing Carbazolyl-capped Acetylide Ligands: Synthesis, Tunable Photophysics and Nonlinear Absorption”, *Dalton Trans.* **42**, 160-171 (2013). (11)
20. B. Zhang, Y. Li, R. Liu, T. M. Pritchett, J. E. Haley, W. Sun,* “Extending the Bandwidth of Reverse Saturable Absorption in Platinum Complexes Using Two-Photon Initiated Excited State Absorption” *ACS Appl. Mater. Interfaces* **5**(3), 565-572 (2013). (12)
21. R. Liu, N. Dandu, Y. Li, S. Kilina, W. Sun,* “Synthesis, Photophysics and Reverse Saturable Absorption of Bipyridyl Platinum(II) Bis(arylfluorenylacetylide) Complexes”, *Dalton Trans.* **42**(13), 4398-4409 (2013). (Featured on outside back cover). (12)
22. R. Liu, A. Azenkeng, D. Zhou, Y. Li, K. D. Glusac, W. Sun,* “Tuning Photophysical Properties and Improving Nonlinear Absorption of Pt(II) Diimine Complexes with Extended π -Conjugation in the Acetylide Ligands”, *J. Phys. Chem. A* **117**(9), 1907-1917 (2013). (21)
23. Y. Li, R. Liu, E. Badaeva, S. Kilina, W. Sun,* “Long-lived π -Shape Platinum (II) Diimine Complexes Bearing 7-Benzothiazolyfluoren-2-yl Motif on the Bipyridine and Acetylide Ligands: Admixing $\pi\pi^*$ and Charge Transfer Configurations”, *J. Phys. Chem. C* **117**(11), 5908-5918 (2013). (16)

24. Z. Li, E. Badaeva, A. Ugrinov, S. Kilina, W. Sun,* “Platinum Chloride Complexes Containing 6-[9,9-Di(2-ethylhexyl)-7-R-9H-fluoren-2-yl]-2,2'-Bipyridinyl Ligands: Tuning Photophysics and Reverse Saturable Absorption”, *Inorg. Chem.* **52**(13), 7578-7592 (2013). (11)
25. X. Liu, W. Sun,* “Platinum (II) Complex Bearing 2-(9,9-Dihexadecyl-7-R-fluoren-2-yl)-1,10-phenanthroline Ligand: Synthesis, Photophysics and Reverse Saturable Absorption”, *Eur. J. Inorg. Chem.* **27**, 4732-4742 (2013). (featured as Cover Picture) (2)
26. Y. Li, N. Dandu, R. Liu, L. Hu, S. Kilina, W. Sun,* “Nonlinear Absorbing Cationic Iridium(III) Complexes Bearing Benzothiazolylfluorene Motif on the Bipyridine (N^N) Ligands: Synthesis, Photophysics and Reverse Saturable Absorption”, *ACS Appl. Mater. Interfaces.* **5**(14), 6556-6570 (2013). (12)
27. Z. Li, W. Sun,* “Synthesis, photophysics, and reverse saturable absorption of platinum complexes bearing extended π -conjugated C^N^N ligand”, *Dalton Trans.* **42**(38), 14021-14029 (2013). (5)
28. T. Lu, W. Sun,* “Near-IR Emission of Lanthanide (III) Texaphyrin Complexes”, *J. Inorg. Organometallic Poly. Mater.* **23**(1), 200-205 (2013). (1)
29. B. Zhang, Y. Li, R. Liu, T. M. Pritchett, A. Azenkeng, J. E. Haley, A. Ugrinov, Z. Li, M. R. Hoffmann, W. Sun,* “Synthesis, Structural Characterization, Photophysics and Broadband Nonlinear Absorption of Platinum(II) Complex Bearing 6-(7-Benzothiazol-2'-yl)-9,9-diethyl-9H-fluoren-2-yl)-2,2'-bipyridinyl Ligand”, *Chem. Eur. J.* **18**(15), 4593-4606 (2012). (17)
30. Z. Li, E. Badaeva, D. Zhou, J. Bjorgaard, K. Glusac, S. Killina, W. Sun,* “Tuning Photophysics and Nonlinear Absorption of Bipyridyl Platinum(II) Bisstilbenylacetylde Complexes by Auxiliary Substituents”, *J. Phys. Chem. A.* **116**(20), 4878-4889 (2012). (16)
31. R. Liu, D. Zhou, A. Azenkeng, Z. Li, Y. Li, K. D. Glusac, W. Sun,* “Nonlinear Absorbing Platinum(II) Diimine Complexes: Synthesis, Photophysics, and Reverse Saturable Absorption”, *Chem. Eur. J.* **18**(36), 11440-11448 (2012). (19)
32. X. Xing, L. Zhang, R. Liu, S. Li, B. Qu, Z. Chen, W. Sun,* L. Xiao*, Q. Gong,* “A Deep-Blue Emitter with Electron Transporting Property to Improve Charge Balance for Organic Light-Emitting Device”, *ACS Appl. Mater. Interfaces* **4**(6), 2877-2880 (2012). (24)
33. R. Liu, A. Azenkeng, Y. Li, W. Sun,* “Long-Lived Platinum(II) Diimine Complexes with Broadband Excited-state Absorptions: Efficient Nonlinear Absorbing Materials”, *Dalton Trans.* **41**, 12353-12357 (2012). (18)
34. R. Liu, Z. Li, H. Zhu, W. Sun,* “Synthesis and Photophysical Studies of Back-to-Back Dinuclear Platinum Terpyridyl Complexes with Different Substituents on the Bridging Ligand”, *Inorg. Chimica Acta* **387**, 383-389 (2012). (3)
35. X.-G. Liu, W. Sun,* “Synthesis and Photophysics of Platinum (II) Complexes Bearing 2-(7-(4-R-phenylethynyl)-9,9-dihexadecyl-fluoren-2-yl)-1,10-phenanthroline Ligand”, *Inorg. Chimica Acta* **388**, 140-147 (2012). (4)
36. R. Liu, Y. Li, J. Chang, Q. Xiao, H. Zhu,* W. Sun,* “Photophysics and Nonlinear Absorption of 4,4'-Diethynylazobenzenes Terminal Capped with Substituted Aromatic Rings”, *J. Photochem. Photobio. A* **239**, 47-54 (2012). (1)
37. Z. Ji, Y. Li, T. M. Pritchett, N. S. Makarov, J. E. Haley, Z. Li, M. Drobizhev, A. Rebane, W. Sun,* “One-Photon Photophysics and Two-photon Absorption of 4-[9,9-Di(2-ethylhexyl)-7-diphenylaminofluoren-2-yl]-2,2':6',2''-terpyridine and Their Platinum Chloride Complexes”, *Chem. Eur. J.* **17**(8), 2479-2491 (2011). (43)
38. B. Zhang, Y. Li, W. Sun,* “Anion-Sensitive 2,4-Dinitrophenylhydrazone-Containing Terpyridine Derivative and Its Platinum Chloride Complex”, *Eur. J. Inorg. Chem.* **32**, 4964-4969 (2011). (6)

39. Y. Li, T. M. Pritchett, J. Huang, M. Ke, W. Sun*, “Nonlinear refraction of peripheral-substituted zinc phthalocyanines investigated by nanosecond and picosecond Z-scan”, *Opt. Photon. J.* **1**(2), 70-74 (2011). (1)
40. Z. Ji, S. Li, Y. Li, W. Sun*, “Back-to-back dinuclear platinum terpyridyl complexes: Synthesis and photophysical studies”, *Inorg. Chem.* **49**(4), 1337-1346 (2010). (27)
41. P. Shao, Y. Li, J. Yi, T. M. Pritchett, W. Sun*, “Cyclometalated Platinum 6-Phenyl-4-(9,9-dihexylfluoren-2-yl)-2,2'-bipyridine Complexes: Synthesis, Photophysics and Nonlinear Absorption”, *Inorg. Chem.* **49**, 4507-4517 (2010). (46)
42. W. Sun*, B. Zhang, Y. Li, T. M. Pritchett, Z. Li, J. E. Haley, “Broadband Nonlinear Absorbing Platinum 2,2'-Bipyridine Complex Bearing 7-(Benzothiazol-2'-yl)-9,9-diethyl-2-ethynylfluorene Ligands”, *Chem. Mater.* **22**, 6384-6392 (2010). (49)
43. R. Liu, Y. Li, Y. Li, H. Zhu, W. Sun*, “Photophysics and Nonlinear Absorption of Cyclometalated Platinum(II) 6-Phenyl-2,2'-bipyridyl Complexes with Different Acetylde Ligands”, *J. Phys. Chem. A* **114**(48), 12639-12645 (2010). (29)
44. I. Mathew, W. Sun*, “Photophysics in solution and Langmuir-Blodgett film and vapochromic behavior of the Pt(II) 2,6-bis(N-alkylbenzimidazol-2'-yl)pyridine complexes with different alkyl chains and counter anions”, *Dalton Trans.* **39**, 5885-5898 (2010). (27)
45. J. Yi, B. Zhang, P. Shao, Y. Li, W. Sun*, “Synthesis and Photophysics of Platinum(II) 6-Phenyl-4-(9,9-dihexylfluoren-2-yl)-2,2'-bipyridine Complexes with Phenothiazinyl Acetylde Ligand”, *J. Phys. Chem. A* **114**, 7055-7062 (2010). (8)
46. T. M. Pritchett*, W. Sun, B. Zhang, M. J. Ferry, Y. Li, J. E. Haley, D. Mackie, W. Shensky, A. G. Mott, “Excited-state absorption of a bipyridyl platinum(II) complex with alkynyl-benzothiazolylfluorene units”, *Opt. Lett.* **35**(9), 1305-1307 (2010). (20)
47. I. Mathew, Y. Li, Z. Li, W. Sun*, “Dinuclear Platinum(II) 4,6-Diphenyl-2,2'-bipyridine Complexes Tethered by Rigid Bridging Ligand: Synthesis and Photophysics in Solution and in LB Film”, *Dalton Trans.* **39**, 11201-11209 (2010). (8)
48. W. Sun*, Y. Li, T. M. Pritchett, Z. Ji, J. Haley, “Excited-state absorption of 4'-(5'''-R-pyrimidyl)-2,2':6',2''-terpyridyl platinum(II) phenylacetylde complexes”, *Nonlinear Optics, Quantum Optics: Concepts in Modern Optics* **40**, 163-174 (2010). (7)
49. R. Subramaniam, Y. Xiao, Y. Li, S. Qian, W. Sun, S. Mallik*, “Light-mediated and H-bond facilitated liposomal release: the role of lipid head groups in release efficiency”, *Tetrahedron Lett.* **51**, 529-532 (2010). (8)
50. B. Wang, A. Raphael, Y. Li, A. Singh, H. Lee, W. Sun*, P. R. Sharp*, “Remarkable bromination and blue-emission of 9-anthracenyl Pt(II) complexes”, *J. Am. Chem. Soc.* **131**(9), 3150-3151 (2009). (15)
51. P. Shao, Y. Li, A. Azenkeng, M. Hoffmann, W. Sun*, “Influence of Alkoxy Substituent on 4,6-Diphenyl-2,2'-bipyridine Ligand on Photophysics of Cyclometalated Platinum(II) Complexes: Admixing Intraligand Charge Transfer in Low-lying Excited States”, *Inorg. Chem.* **48**(6), 2407-2419 (2009). (47)
52. H. Zhang, B. Zhang, Y. Li, W. Sun*, “Acid-Sensitive Pt(II) 2,6-Di(pyridin-2-yl)pyrimidin-4(1H)-one Complexes”, *Inorg. Chem.* **48**(8), 3617-3627 (2009). (19)
53. Z. Ji, A. Azenkeng, M. Hoffmann, W. Sun*, “Synthesis and Photophysics of 4'-R-2,2';6',2''-terpyridyl (R = Cl, CN, N(CH₃)₂) Platinum(II) Phenylacetylde Complexes”, *Dalton Trans.* 7725-7733 (2009). (16)

54. I. Mathew, W. Sun*, “Photophysics of Pt(II) 4,6-Diphenyl-2,2'-bipyridyl Complexes in Solution and LB Film”, *J. Organometallic Chem.* **694**, 2750-2756 (2009). (6)
55. Y. Li, T. M. Pritchett, P. Shao, J. Haley, H. Zhu, W. Sun*, “Excited-state absorption of *mono*-, *di*- and *tri*-nuclear cyclometalated platinum 4,6-diphenyl-2,2'-bipyridyl complexes”, *J. Organometallic Chem.* **694**, 3688-3691 (2009). (13)
56. Q. Dai, Y. Li, L. Zhai*, W. Sun*, “3,4-Ethylenedioxythiophene (EDOT)-Based π -Conjugated Oligomers: Facile Synthesis and Excited-state Properties”, *J. Photochem. Photobio. A: Chemistry* **206**, 164-168 (2009). (7)
57. Z. Ji, Y. Li, W. Sun* “Acid/base sensitive platinum terpyridyl complex: Switching between metal-to-ligand charge transfer (MLCT), ligand-to-ligand charge transfer (LLCT), and intraligand charge transfer (ILCT) states”, *J. Organometallic Chem.* **694**, 4140-4145 (2009). (13)
58. T. Lu, P. Shao, I. Mathew, A. Sand, W. Sun*, “Synthesis and Photophysics of Benzotexaphyrin: A Near-IR Photosensitizer and Emitter”, *J. Am. Chem. Soc.* **130**(47), 15782-15783 (2008). (30)
59. Y. Li, D. Dini, M. J. F. Calvete, M. Hanack, W. Sun*, “Photophysics and Nonlinear Optical Properties of Tetra- and Octabrominated Silicon Naphthalocyanines”, *J. Phys. Chem. A.* **112**(3), 472-480 (2008). (21)
60. P. Shao, Y. Li, W. Sun*, “Cyclometalated platinum(II) complex with strong and broadband nonlinear optical response”, *J. Phys. Chem. A.* **112**(6), 1172-1179 (2008). (39)
61. P. Shao, Y. Li, W. Sun*, “Platinum(II) 2,6-bis(2'-pyridyl)-4-(4'-tolyl)-1,3,5-triazyl complexes: synthesis and photophysics”, *Organometallics* **27**(12), 2743-2749 (2008). (24)
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29. Z. Ji, W. Sun,* "Synthesis and photophysics of 4'-(5''-R-pyrimidyl)-2,2';6',2''-terpyridine platinum(II) phenylacetylde complexes (R=H, Cl, Ph, CN, OEt)", *Proceeding of Inter-American Photochemical Society 18th Winter Conference* (2008).
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50. L. K. Stultz,* T. H. Patton, W. Sun, J. P. Claude, “NLO properties of ruthenium dimmers”, *219th ACS National Meeting Abstract Book*, **INORG-102** (2000).

CONFERENCE PRESENTATIONS

1. Wenfang Sun*, Bingqing Liu, Chengzhe Wang, Xiaolin Zhu, L. Lystrom, S. Kilina, “Tuning the Ground-state Absorption and Triplet Excited-state Absorption and Lifetime via Ligand π -Conjugation: Exploration of Cationic Ir(III) Complexes as Broadband Reverse Saturable Absorbers”, to be presented at the *14th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM)*, Oct. 31 – Nov. 4, Daejeon, Korea (2016). (Invited)

2. Wenfang Sun*, Rui Liu, Yuhao Li, Taotao Lu, “Reverse Saturable Absorption of Cationic Iridium(III) Complexes”, presented at the *2016 International Conference on Synthetic Metals (ICSM2016)*, June 25-July 1, Guangzhou, P.R. China (2016).
3. Wenfang Sun*, Xiaolin Zhu, “Multi-stimuli responsive Pt(II) complexes”, presented at the *12th Sino-US Chemistry Professor Conference*, June 23-24, Guangzhou, P.R. China (2016).
4. Bingqing Liu, Wenfang Sun*, “Reverse saturable absorption and photophysics of cationic Ir complexes bearing different degrees of π -conjugated diimine (N[^]N) and cyclometalating (C[^]N) ligands”, to be presented at the *2016 MRS Spring Meeting*, March 28-April 1, Phoenix, Arizona (2016).
5. Chengzhe Wang, Wenfang Sun*, “Increasing the triplet lifetime of cationic bis-cyclometalated Ir(III) complexes by tuning ligand π -conjugation for application as reverse saturable absorbers”, to be presented at the *2016 MRS Spring Meeting*, March 28-April 1, Phoenix, Arizona (2016).
6. Li Wang, Wenfang Sun*, “Synthesis, Characterization and Reverse Saturable Absorption of a Series of Trisbidentate Heteroleptic Ruthenium (II) Complexes”, to be presented at the *2016 MRS Spring Meeting*, March 28-April 1, Phoenix, Arizona (2016).
7. Wenfang Sun*, “Effects of the extended π -conjugation of diimine and cyclometalating ligands on the photophysics and reverse saturable absorption of heteroleptic cationic Ir(III) complexes”, presented at the *Pacificchem 2015*, Dec. 15-20, Honolulu, Hawaii (2015). (Invited)
8. Wenfang Sun*, “Photophysics and reverse saturable absorption of Pt(II) bipyridyl bisacetylidate complexes with extended π -conjugation”, presented at the *Pacificchem 2015*, Dec. 15-20, Honolulu, Hawaii (2015).
9. Wenfang Sun*, “Cationic Ir(III) complexes as broadband reverse saturable absorbers: The influence of ligand π -conjugation on the photophysics and excited-state absorption”, presented at the *Third International Symposium on the Photofunctional Chemistry of Complex Systems (ISPCCS2015)*, Dec. 12-14, Maui, Hawaii (2015). (Invited)
10. Wenfang Sun*, Taotao Lu, Xiaolin Zhu, “Development of Ir(III) complexes with long-lived broadband excited-state absorption”, presented at the *11th Sino-US Chemistry Professor Symposium*, June 21-23, Suzhou, China (2015). (Invited)
11. L. Lystrom, W. Sun, S. Kilina, “First Principle Calculations of Optical Properties of Platinum(II) Diimine Complexes: Effects of the *N*-Methylnaphthalimide Substituents and the π -Conjugation”, presented at the *249th ACS National Meeting*, March 22-26, Denver, CO (2015).
12. L. Lystrom, W. Sun, S. Kilina, “First principle calculations of optical properties of platinum(II) diimine complexes: Effects of the *N*-Methylnaphthalimide Substituents and the π -Conjugation”, presented at the *ND EPSCoR Annual Meeting*, April 22, Fargo, ND (2015).
13. Wenfang Sun*, Rui Liu, Yuhao Li, Zhongjing Li, Naveen Dandu, Svetlana Kilina, “Nonlinear absorbing heteroleptic cationic iridium complexes”, presented at the *International Symposium on Electrooptics and Nonlinear Optics (ISENO)*, Sept. 2-4, Harbin, China (2014). (Invited).
14. Wenfang Sun*, Yuhao Li, Rui Liu, Zhongjing Li, Naveen Dandu, Svetlana Kilina, “Iridium complexes as nonlinear absorbing materials”, presented at the *Progress in Electromagnetic Research and Photonics (PIERS 2014)*, August 25-28, Guangzhou, China (2014). (Invited)
15. Wenfang Sun*, Rui Liu, Yuhao Li, Zhongjing Li, Naveen Dandu, Peng Cui, Svetlana Kilina, “Heteroleptic cationic iridium complexes: Synthesis, photophysics and nonlinear absorption”, presented at the *10th Sino-US Chemistry Professor Symposium*, June 15-17, Jinan, China (2014). (Invited)

16. Wenfang Sun,* Rui Liu, Yuhao Li, Naveen Dandu, Svetlana Kilina, “Platinum(II) bipyridyl bisacetylide complexes as nonlinear absorbing materials”, presented at the *Purple Mountain Research Conference: Supramolecular Chemistry and Functional Materials*, June 12-14, Nanjing, China (2014). (Keynote)
17. Wenfang Sun,* Rui Liu, Bingguang Zhang, Yuhao Li, Yunjing Li, “Understanding the photophysics and nonlinear absorption of platinum bipyridyl bisacetylide complexes via spectroscopic characterization and theoretical calculation”, presented at *The International Symposium on Advances in Computational Materials on Catalysis and Photovoltaics*, May 25-28, Tianjin, China (2014). (Invited)
18. Rui Liu, Yuhao Li, Jin Chang, Eric R. Waclawik, Wenfang Sun*, “Novel Reverse Saturable Absorbing V-shaped and X-shaped Pt(II) Diimine Complexes: Synthesis, Photophysics and Nonlinear Absorbing Properties”, presented at the *2014 MRS Spring Meeting Symposium JJ: Materials and Processes for Nonlinear Optics*, April 22-24, San Francisco, CA (2014).
19. Hongjun Zhu,* Rui Liu, Yuhao Li, Hongbin Chen, Jin Chang, Wenfang Sun*, “Pt(II) Diimine Complexes Bearing Carbazolyl-capped Acetylide Ligands: Synthesis, Tunable Photophysics and Nonlinear Absorption”, presented at the *2014 MRS Spring Meeting Symposium JJ: Materials and Processes for Nonlinear Optics*, April 22-24, San Francisco, CA (2014).
20. Yuhao Li, Rui Liu, Naveen Dandu, Zhongjing Li, Svetlana Kilina, Wenfang Sun*, “Cationic Iridium(III) Complexes with Extended π -Conjugation on Phenanthroline (N^N) and/or Phenylpyridine (C^N) Ligands as Broadband Nonlinear Absorbing Materials”, presented at the *2014 MRS Spring Meeting Symposium JJ: Materials and Processes for Nonlinear Optics*, April 22-24, San Francisco, CA (2014).
21. D. C. Yost, S. Kilina, K. Martin, W. Sun, “Rational design of platinum complexes with enhanced nonlinear optical properties”, presented at the *247th ACS National Meeting*, March 16-20, Dallas, TX (2014).
22. W. Sun, Y. Li, R. Liu, N. Dandu, S. Kilina, “Photophysics and nonlinear absorption of Ir(III) complexes bearing 7-benzothiazolyl-fluoren-2-yl substituted bipyridine ligand”, presented at *The 9th SINO-US Chemistry Professors Conference*, July 12-14, Chengdu, China (2013). (Invited)
23. W. Sun, “Photophysics and Nonlinear Absorption of Platinum Diimine Complexes”, presented at the *22nd Inter-American Photochemical Society Winter Conference*, Jan. 2-5, Sarasota, FL (2013). (Invited)
24. W. Sun, “Platinum Diimine Acetylide Complexes as Broadband Nonlinear Absorbers”, presented at the *2013 MRS Spring Meeting Symposium HH: Materials for High-Performance Photonics II*, April 1-5, San Francisco, CA (2013). (Invited)
25. W. Sun, “Diimine Pt(II) Complexes as Broadband Nonlinear Absorbers”, presented at the *Symposium on Sustainable Materials and Light Driven Processes*, Sept. 27, Fargo, ND (2012). (Invited)
26. W. Sun, Y. Li, R. Liu, N. Dandu, S. Killina, “Iridium(III) Complexes Bearing 7-Benzothiazolyl-fluoren-2-yl Motif: Photophysics and Nonlinear Absorption”, presented at the *244th ACS National Meeting*, August 19-24, Philadelphia, PA (2012).
27. W. Sun, “Modulation of Excited-State Properties of Platinum(II) Terdentate Complexes via Chemical Stimuli”, presented at the *8th Sino-US Chemistry Professor Conference*, July 2-4, Kunming, China (2012). (Invited)
28. X. Liu, W. Sun, “Synthesis, Photophysics and Nonlinear Absorption of Pt (II) Complexes Bearing 2-Fluorenyl-1,10-phenanthroline Ligand”, presented at the *244th ACS National Meeting*, August 19-24, Philadelphia, PA (2012).

29. Z. Li, E. Badaeva, S. Killina, W. Sun, “Synthesis, Photophysics, and Nonlinear Transmission of Platinum Complexes Containing 6-[7-R-9,9-di(2-ethylhexyl)-9H-fluoren-2-yl]-2,2'-Bipyridinyl Ligands”, presented at the 244th ACS National Meeting, August 19-24, Philadelphia, PA (2012).
30. R. Liu, A. Azenkeng, Y. Li, W. Sun, “Long-Lived Pt(II) Diimine Complexes with Broadband Excited-state Absorption: Efficient Nonlinear Absorbing Materials”, presented at the 244th ACS National Meeting, August 19-24, Philadelphia, PA (2012).
31. W. Sun, “Development of Reverse Saturable Absorbing and Two-photon Absorbing Platinum(II) Complexes”, presented at the “Metal-Containing and Metallo-Supramolecular Polymers and Materials” (Part IV) Symposium, August 28 – Sept. 1, Denver, CO (2011). (Invited)
32. W. Sun, “Platinum Terdentate/Bidentate Complexes as Broadband Nonlinear Absorbing Materials”, presented at the US Air Force Research Laboratory Workshop on Nonlinear Optical Materials, April 19-20, Dayton, Ohio (2011). (Invited)
33. W. Sun, B. Zhang, Y. Li, T. M. Pritchett, J. E. Haley, “4-(7-Benzothiazolyl-9,9-diethylfluoren-2-yl) Substituted Terpyridyl Platinum Chloride Complexes with Broadband Nonlinear Absorption”, presented at the NSF Inorganic Workshop, May 18-21, Santa Fe, NM (2010).
34. W. Sun, B. Zhang, Y. Li, T. M. Pritchett, “Photophysics and broadband nonlinear absorption of platinum terdentate or diimine complexes”, presented at *Pacificchem 2010*, Dec. 15-20, Honolulu, Hawaii (2010).
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37. W. Sun*, H. Zhang, B. Zhang, Z. Ji, “Square-planar platinum(II) terdentate complexes as pH, anion, and cation sensors”, presented at the 18th International Conference on Photochemistry and Photophysics of Coordination Compounds, July 4-9, Sapporo, Japan (2009).
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39. I. Mathew, W. Sun,* “Photophysics and Solvent-Induced Aggregation Studies of Pt(II) 2,6-Bis(N-alkylbenzimidazol-2-yl)pyridine Complexes”, presented at the *Inter-America Photochemical Society Winter Conference*, St. Petersburg, FL, Jan. 2-5, 2009.
40. W. Sun, P. Shao, Y. Li, “Photophysics and nonlinear absorption of platinum biphenyldipyridyl complexes with an alkoxyl substituent”, presented at the *SPIE Annual Conference: Optics and Photonics*, San Diego, CA, August 13, 2008.
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47. W. Sun, P. Shao, Y. Li, “A square-planar platinum complex with large and broadband nonlinear optical response”, presented at *the First Asian Conference on Coordination Chemistry*, Okazaki, Japan, July 31, 2007. (Invited)
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51. I. Mathew, W. Sun, “Sensing property of MnTPPCl LB films and a dinuclear Pt(II) complex to organic vapors”, presented at the *233rd ACS Annual Meeting*, Chicago, IL, March 25-28, 2007.
52. Y. Li, W. Sun, “Photophysical and optical limiting properties of silicon naphthalocyanines with peripheral bromo-substituents”, presented at the *233rd ACS Annual Meeting*, Chicago, IL, March 25-28, 2007.
53. W. Sun, P. Shao, “Photophysics and nonlinear transmission of a cyclometalated platinum(II) 4,6-diphenyl-2,2'-bipyridyl pentynyl complex”, presented at the *MRS Annual Spring Meeting*, San Francisco, CA, April 9-13, 2007.
54. Timothy M. Pritchett, Michael J. Ferry, Andrew G. Mott, William Shensky III, Fengqi Guo, Bingguang Zhang, Wenfang Sun, “Excited state absorption cross-sections of a novel terpyridyl platinum(II) complex”, presented at the *NLO-2007*, Honolulu, Hawaii, August 4, 2007.
55. Q. Dai, J. Zou, W. Sun, Q. Huo, “Nonlinear optical properties of gold nanoparticles/polylysine hybrid materials”, presented at *NSTI 2007*, May 20, CA, 2007.
56. W. Sun, G. Wang, D. Dini, M. Hanack, “Axial ligand effect on photophysics and optical limiting of naphthalocyanines and phthalocyanines”, presented at the *Fourth International Conference on Porphyrins and Phthalocyanines*, Rome, Italy, July 4, 2006.
57. W. Sun, G. Wang, F. Guo, P. Shao, Q. Dai, J. Worden, Q. Huo, W. Jia, E.P. Douglas, “Optical limiting of gold nanoparticle aggregates, gold nanoparticle/polylysine hybrid, and semiconductor nanoparticles”, presented at the *International Symposium on Materials and Devices for Nonlinear Optics*, Dingle, Ireland, June 28, 2006. (Invited)
58. W. Sun, G. Wang, D. Dini, M. Hanack, “Photophysics and optical limiting of indium naphthalocyanines with halide axial ligand”, presented at the *ACS Annual Spring Meeting*, Atlanta, GA, March 30, 2006.
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60. W. Sun, H. Zhu, P.M. Barron, “Binuclear cyclometalated platinum(II) complexes: Luminescence and excited state absorption”, presented at the *ACS Annual Fall Meeting*, Washington, DC, August 29, 2005.
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62. W. Sun, F. Guo, H. Zhu, “Photophysics and optical limiting of mononuclear and binuclear platinum(II) 4’-Arylterdentate complexes”, presented at the *International Symposium on Photonics, Biophotonics, and Nanophotonics ’2005 (ISPBN’05)*, Nanjing, China, May 14-18, 2005.
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67. P.M. Barron, F. Guo, W. Sun, “The Synthesis and characterization of a partially water-soluble pentaazadentate porphyrin-like gadolinium (III) complex for photodynamic therapy application”, presented at the *227th American Chemical Society National Meeting*, Anaheim, CA, March 31, 2004
68. W. Sun, F. Guo, D. Martyshkin, S. Mirov, C.-L. Zhan, D. Wang, “Wavelength dispersion of two-photon absorption and two-photon induced fluorescence of stilbazolium derivatives”, presented at *48th SPIE Annual Conference*, San Diego, CA, Aug. 3, 2003.
69. W. Sun, F. Guo, “Photophysical properties and optical limiting of platinum (II) 4’-arylterpyridyl arylacetylde complexes”, presented at the *Third International Symposium on Optical Power Limiting*, Sedona, AZ, Sept. 28 – Oct. 2, 2003.
70. W. Sun, M.M. McKerns, A.G.V. Spivey, W. Qiu, C.M. Lawson, G.M. Gray, “Nonlinear optics and power limiting in expanded porphyrin-like metal complexes”, presented at the *Third International Symposium on Optical Power Limiting*, Sedona, AZ, Sept. 28 – Oct. 2, 2003.
71. F. Guo, W. Sun, “Synthesis, photophysical properties, and optical limiting of 4’-arylterpyridyl acetylde complexes”, presented at *4th Biennial North Dakota/South Dakota Joint EPSCoR Conference*, Sept. 5, Fargo, ND, 2003.
72. P.M. Barron, F. Guo, W. Sun, “Synthesis and photophysical properties of pentaazadentate porphyrin-like gadolinium (III) complex”, presented at *4th Biennial North Dakota/South Dakota Joint EPSCoR Conference*, Sept. 5, Fargo, ND, 2003.
73. W. Sun, D. Martyshkin, S. Mirov, X.-J. Tang, L.-Z. Wu, C.-H. Tung, “Excited state absorption and two-photon induced fluorescence of novel organic dyes”, presented at the *47th SPIE Annual Conference*, Seattle, WA, July 9, 2002.
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75. W. Sun, G. Rohde, S. Wang, R. Advancula, "Photophysical properties and excited state absorption of azobenzene side-chain polymers", presented at *American Chemical Society Great Lakes Regional Meeting*, Minneapolis, MN, June 2-4, 2002.
76. W. Sun, L.-Z. Wu, "Platinum bi/terpyridine phenylacetylene complexes for optical limiting applications", presented at *223rd American Chemical Society National Meeting*, Orlando, FL, April 7-11, 2002.
77. Scott Jason Dee, Fengqi Guo, Wenfang Sun, "Synthesis and characterization of pentaazadentate porphyrin-like metal complexes for optical limiting applications", presented at *10th Annual North Dakota Undergraduate Research Poster Session*, Grand Folks, July 24, 2002.
78. Paul Barron, Fengqi Guo, Wenfang Sun, "Synthesis and characterization of pentaazadentate porphyrin-like rare-earth complexes for photodynamic therapy applications", presented at *10th Annual North Dakota Undergraduate Research Poster Session*, Grand Folks, July 24, 2002.
79. An Young, Fengqi Guo, Wenfang Sun, "Synthesis and characterization of platinum (II) bipyridyl phenylacetylde complex", presented at *10th Annual North Dakota Undergraduate Research Poster Session*, Grand Folks, July 24, 2002.
80. W. Sun, C.M. Lawson, G.M. Gray, C. Zhan, D. Wang, "Nonlinear absorption of stilbazolium derivatives", presented at *Nonlinear Optical Transmission Processes*, San Diego, CA, Aug. 2, 2001.
81. Stultz, Laura K.; Patton, Thomas H.; Sun, Wenfang; Claude, Juan Pablo, "NLO properties of ruthenium dimmers", presented at *219th ACS National Meeting*, San Francisco, CA, March 26-30, 2000.
82. W. Sun, C.M. Lawson, G.M. Gray, C. Zhan, D. Wang, "Degenerate four wave mixing and Z-scan measurements of stilbazolium derivatives", presented at *Optical Society of America Annual Meeting*, Providence, RI, Oct. 21-26, 2000.
83. W. Sun, M.M. McKerns, C.M. Lawson, G.M. Gray, C. Zhan, D. Wang, "Solvent effect on the third-order nonlinearity and optical limiting ability of a stilbazolium-like dye", presented at *Power Limiting Materials and Devices II*, San Diego, CA, Aug. 2, 2000.
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86. C.C. Byeon, W. Sun, M.M. McKerns, C.M. Lawson, G.M. Gray, D. Wang, "Nonlinear Optical Characterization of asymmetric pentaazadentate porphyrin-like metal complexes in power limiting applications", presented at *American Physical Society Centennial Symposium*, Atlanta, GA, March 25, 1999.
87. W. Sun, C.C. Byeon, M.M. McKerns, C.M. Lawson, G.M. Gray, D. Wang, "Investigation of relationship between chemical structure and optical limiting properties of asymmetric pentaazadentate porphyrin-like metal complexes", presented at *Nonlinear Optical Liquids for Power Limiting and Imaging*, San Diego, CA, July 22, 1998.
88. W. Sun, C.C. Byeon, M.M. McKerns, C.M. Lawson, J.M. Dunn, M. Hariharasarma, G.M. Gray, "Enhancement of the third-order susceptibilities of *cis*-Mo(CO)₄(PPh₃)₂ solution by oxygen in different solvents", presented at *Nonlinear Optical Liquids for Power Limiting and Imaging*, San Diego, CA, July 22, 1998.

89. C.C. Byeon, W. Sun, M.M. McKerns, C.M. Lawson, G.M. Gray, D. Wang, "Optical-limiting performances in asymmetric pentaazadentate porphyrinlike metal complexes", presented at *1998 OSA Annual Meeting & Exhibit*, Baltimore, MD, Oct. 4 – 9, 1998.
90. D. Wang, W. Sun, S. Dong, J. Si, C. Li, "Nonlinear optical properties of pentaazadentate expanded porphyrins and application in optical limiting", presented at *Materials Research Society Symposium: Materials for Optical Limiting II*, San Francisco, CA, March 31 – April 2, 1997.
91. D. Wang, W. Sun, F. Guo, C. Wang, Y. Zou, "Optical behaviors of pentaazadentate expanded porphyrin metal complexes for nanosecond laser pulses", presented at *The 4th Sino-Japan Binational Symposium on Photochemistry*, Huangshan, China, Oct.5 - 9, 1997.
92. F. Guo, W. Sun, J. Xie, D. Wang, "Photophysical properties of pentaazadentate conjugated macrocyclic metal complexes", presented at the *4th Sino-Japan Binational Symposium on Photochemistry*, Huangshan, China, Oct.5 - 9, 1997.
93. D. Wang, W. Sun, S. Dong, S. Zhang, Z. Xia, Y. Zou, J. Si, M. Yang, C. Li, "Nonlinear optical properties of the expanded porphyrin macrocyclic metal complexes", presented at *The Third International Symposium on Functional Dyes (Functional Dyes '95)*, Santa Cruz, CA, July, 1995.
94. D. Wang, S. Dong, W. Sun, J. Yue, J. Qin, S. Pang, "Photodynamic effect of asymmetric pentaazadentate porphyrin-like macrocyclic complexes", presented at *The Third International Symposium on Functional Dyes (Functional Dyes '95)*, Santa Cruz, CA, July, 1995.
95. D. Wang, S. Dong, W. Sun, J. Yue, J. Qin, S. Pang, "Photodynamic therapy of AH cell and solid tumors in mice with pentaazadentate rare earth metal complexes", presented at *The 9th National Conference on Photochemistry*, Chongqing, China, November, 1995.
96. W. Sun, S. Dong, D. Wang, Q. Wan, J. Yue, M. Li, S. Pang, "Studies of photosensitization of porphyrin-like rare-earth metal complexes to generate singlet oxygen by ESR", presented at *The 8th National Magnetic Resonance Conference*, Hangzhou, China, August, 1994.
97. W. Sun, S. Dong, D. Wang, J. Si, M. Yang, C. Li, "Studies of photophysical properties and nonlinear optical properties of asymmetric porphyrin-like metal complexes", presented at *The Third National Symposium on Organic Opto-Electronic Materials and Their Applications*, Qingdao, China, July, 1994.
98. D. Wang, W. Sun, S. Dong, Q. Gong, S. Yang, Y. Zou, J. Si, M. Yang, Y. Wang, C. Li, "Third-order optical nonlinearities of asymmetric Texaphyrins and their application in optical limiting", presented at *International Conference on Science and Technology of Synthetic Metals*, Seoul Korea, July, 1994.
99. D. Wang, W. Sun, S. Dong, Q. Gong, S. Yang, Y. Zou, J. Si, M. Yang, Y. Wang, C. Li, "Nonlinear absorption of asymmetric porphyrin-like complexes in ground and excited states", presented at *The Third Japan-Sino Binational Symposium on Photochemistry*, Osaka, Japan, October, 1994.
100. Q. Gong, S. Yang, X. Gao, W. Sun, S. Dong, D. Wang, "Third-order susceptibility of new macrocyclic conjugated systems", presented at *1994 IEEE Nonlinear Optics: Materials, Fundamentals, and Applications*, Waikoloa, HI, July 25-29, 1994.
101. W. Sun, D. Wang, "Synthesis and property investigation of asymmetric porphyrin-like cadmium complexes with different substituents", presented at *The Second National Symposium on Coordination Chemistry*, Nanjing, China, October, 1993.
102. S. Yang, X. Gao, Q. Gong, Z. Xia, Y. Zou, Z. Gan, W. Sun, D. Wang, "Large third-order optical nonlinearities in porphyrin metal derivatives", presented at *ICNOPA '93*, Nanjing, China, October, 1993.
103. J. Si, M. Yang, C. Li, D. Wang, S. Dong, W. Sun, "Optical limiting using thermal self-defocusing of the [(CH₃-TXP)Cd]Cl", presented at *ICNOPA '93*, Nanjing, China, October, 1993.

104. J. Si, M. Yang, Y. Wang, C. Li, D. Wang, S. Dong, W. Sun, “Optical limiting in solution of macrocyclic metallo-porphyrin-like”, presented at *ICNOPA '93*, Nanjing, China, October, 1993.
105. W. Sun, D. Wang, “The synthesis of asymmetric porphyrin-like macrocyclic cadmium(II) complexes and the investigation of their nonlinear optical properties”, presented at *The 8th National Conference on Photochemistry*, Beijing, China, August, 1993.

PATENT

1. Wenfang Sun, Bingguang Zhang, Pin Shao, Yunjing Li, Zhiqiang Ji, “Metal Complexes as Broadband Nonlinear Absorbing Materials”, provisional patent filed on 10/21/2010, Patent Serial No: 61/405,387.
2. Wenfang Sun, Bingguang Zhang, Rui Liu, Pin Shao, Zhiqiang Ji, Zhongjing Li, “Emissive and Broadband Nonlinear Absorbing Metal Complexes and Ligands as OLED, Optical switching or Optical Sensing Materials”, US Utility Patent filed on 10/21/2011, Patent Application No: 13/278,780.

RESEARCH PROPOSALS FUNDED

External Grants

1. PI, “Heteroleptic iridium(III) and ruthenium(II) complexes with broadband nonlinear absorption”, 8/5/2014 – 7/31/2017, Army Research Lab, **W911NF-14-2-0081, \$899,999**. (current)
2. PI, “Broadband nonlinear absorbing iridium(III) complexes: optimizing the linear and nonlinear absorption via computation assisted rational design”, 9/1/2014 – 8/31/2017, **NSF DMR-1411086, \$463,000**. (current)
3. PI, “Highly soluble platinum diimine or 6-phenyl-2,2'-bipyridine complexes as broadband nonlinear optical materials”, 8/1/2010 – 3/31/2015, Army Research Lab **W911NF-10-2-0055, \$935,869**.
4. PI, “CAREER: Transition-metal terdentate acetylide complexes and dendrimers: synthesis, photophysics and nonlinear optical studies”, 7/1/2005 – 6/30/2011, **NSF CHE-0449598, \$565,000**.
5. Co-PI (Dinesh Katti is PI, with three other co-PIs), “MRI: Acquisition of Data-Intensive Cyberinfrastructure for Research and Education (DICRE) at North Dakota State University”, 9/1/2012 – 8/31/2015, **NSF CNS-1229316, \$400,000**.
6. Co-PI (John Hersherberger is the PI, with three other co-PIs), “CRIF:MU - Acquisition of a Single Crystal X-ray Diffractometer”, 1/1/2010 – 12/31/2012, **NSF CHEM-0946990, \$300,000**.
7. Senior Personnel (Erika Offerdahl is the PI, Mukund Sibi is the co-PI), “Research on the Prairies: Undergraduate Training in the Molecular Sciences”, 6/01/11 – 5/31/14, **NSF, \$338,445**.
8. PI, “Organic/organometallic hybrids as broadband nonlinear transmission materials”, 7/1/06 – 6/30/10, Army Research Lab **W911NF-06-2-0032, \$530,688**.
9. PI, “NIRT: Total chemical synthesis, property and modeling studies of nanoparticle / polymer hybrid materials”, 8/15/2005 – 7/31/2009, **NSF DMI-0506531, \$1,199,479**. (my portion is ~ **\$300,000**).
10. Co-PI, “Food safety risk assessment”, 8/1/2006 – 7/31/2008, **USDA-CSREES 2006-34475-17127, \$359,204**. (my portion is **\$25,200**)
11. Co-PI, “Food safety and security – sensor technology”, 9/1/2005 – 8/31/2007, **USDA-CSREES 2005-34475-15788, \$300,000**. (my portion is **\$49,500**)

12. Co-PI, "Nonlinear optical properties of phthalocyanines and PDI aggregates", 1/1/2007 – 12/31/2009, National Natural Science Foundation of China International Collaborative Project, **RMB ¥250,000 (~\$40,000)**.
13. PI, "Nonlinear absorption of transition-metal arylacetylene", 9/1/2002 – 8/31/2004, The Petroleum Research Fund (Type G), **\$35,000**.
14. Co-PI (Chris Lawson is PI), "Studies of Expanded Porphyrin Metal-Organic Complexes for Optical Power Limiting Applications", 3/10/1999 – 3/9/2002, Army Research Office Grant DAAD19-99-1-0119, **\$329,955** (with \$164,989 of matching money, the total program value is **\$494,944**).
15. PI, "Preparation of Novel Organic Materials for All-optical Switches and Studies of Their Properties", 1/1/1998 – 12/31/2000, National Natural Science Foundation of China Young Investigator Award, **RMB 150,000**.
16. Co-PI (Duoyuan Wang is PI), "Synthesis of Photofunctional Molecules for Optical Limiting Application and the Study of Their Properties", 1/1/1997 – 12/31/1999, National Natural Science Foundation of China Grant No. 29682001, **RMB 150,000**.
17. Investigator (Duoyuan Wang is PI), "Investigation of Rare-earth Ion Doped Novel Organic Thin Films for Photochemical Hole Burning", 1/1/1993 – 12/31/1995, National Natural Science Foundation of China Grant No. 59283036, **RMB 70,000**.
18. Investigator (Duoyuan Wang is PI), "Synthesis of Asymmetric Porphyrin-like Macrocyclic Metal Complexes and Investigation of Their Excited-state Properties", 1/1/1992 – 12/31/1994, National Natural Science Foundation of China Grant No. 29170085, **RMB 50,000**.

EPSCoR Grants

19. EPSCoR Infrastructure Improvement Program - Doctoral Dissertation Assistantship (IIP-DDA), 8/16/2012 – 8/31/2014, **\$28,021**.
20. State EPSCoR WISE Equipment Award, 5/15/2011 – 5/14/2012, **\$9,000**.
21. PI, "Synthesis, photophysics and broadband nonlinear absorption of novel platinum(II) 6-phenyl-2,2'-bipyridine acetylide complexes", 9/1/2009 – 8/31/2010, ND EPSCoR/ND SU Advance FORWARD Leap Grant, **\$25,000**.
22. PI, "Acquisition of a nanosecond laser flash photolysis spectrometer for materials research and education", 3/25/2003 – 6/27/2003, ND EPSCoR Infrastructure Improvement Program, **\$100,000**.
23. PI, "Development and characterization of transition-metal arylidiacetylide dendrimers for third-order nonlinear optical applications", 6/1/2003 – 4/30/2004, NSF EPSCoR Seed Award, **\$24,675**.
24. PI, "Application for travel award to 48th SPIE annual conference", 8/2/2003 – 8/9/2003, NASA EPSCoR, **\$1,500**.
25. PI, "Multiphoton absorption of stilbazolium derivatives", 3/15/2002 – 7/15/2003, ND NASA EPSCoR, **\$16,256**.

Internal Grants

26. Travel Grant from the Provost's Office to the 2014 ACS Meeting, 8/10/2014 – 8/15/2014, **\$200**.
27. Travel Grant from the Provost's Office to the 2013 MRS Spring Meeting, 4/1/2013 – 4/5/2013, **\$400**.
28. Travel Grant from the Provost's Office to the 244th ACS National Meeting, 8/18/2012 – 8/23/2012, **\$400**.

29. Presidential Travel Award to the 18th International Symposium on Photochemistry and Photophysics of Coordination Compounds, 7/4/2009 – 7/9/2009, **\$1,000**.
30. Presidential Travel Award to the SPIE Annual Conference, 8/11/2008 – 8/14/2008, **\$1,000**
31. Presidential Travel Award to the Inter-America Photochemical Society Winter Conference, 1/3/2008 – 1/6/2008, **\$1,000**.
32. Presidential Travel Award to the Fourth International Conference of Porphyrins and Phthalocyanines, 7/1/2006 – 7/7/2006, **\$1,000**.
33. Presidential Travel Award to the Optics and Photonics International Symposium, 7/31/2005 – 8/4/2005, **\$1,000**.
34. Faculty Travel Award from the Vice President Office, 8/27/2005 – 8/31/2005, **\$750**.
35. Presidential Travel Award to the Third International Conference on Porphyrins and Phthalocyanines, 7/10/2004 – 7/14/2004, **\$1,000**.
36. PI, “Nonlinear optical studies of metallo-organic nanoparticle composites”, 6/1/2003 – 5/31/2004, NDSU Grant-in-Aid Program, **\$4,500**.
37. Presidential Travel Award to the Third International Symposium on Optical Power Limiting, 9/27/2003 – 10/2/2003, **\$1,000**.
38. Presidential Travel Award to 225th ACS conference, 2/19/2003, **\$1,000**.
39. PI, “Synthesis and investigation of water-soluble pentaazadentate porphyrin-like rare-earth complexes for photodynamic therapy application”, 2/1/2002 – 1/31/2003, NDSU Research Foundation, Research Development Support Program (Investment Award), **\$10,000**.
40. PI, The Centennial Endowment Fund, Faculty Development Award, 2002, **\$2,900**.
41. Presidential Travel Award to 223rd ACS conference, 2/25/2002, **\$1,000**.
42. PI, “Single-Photon Counting Fluorescence Lifetime Measurement for Optical Limiting and Biophysics”, 9/1/1999 – 8/31/2000, UAB Laser and Photonics Research Center Intramural Grant, **\$15,000**.

PROPOSAL SUBMITTED AND CURRENTLY UNDER REVIEW

1. Senior personnel (Zhongyu Yang is the PI, and four co-PIs), “MRI: Acquisition of a CW/FT X-band Electron Paramagnetic Resonance Spectrometer”, NSF-MRI, **\$741,647**, 8/1/2016 – 7/31/2019.

RESEARCH PROPOSAL WITHDRAWN OR DECLINED

1. Co-PI (Simone Ludwig is the PI, with three other co-PIs), “SI2-SSI: Software Tools for Extraction and Advanced Data Mining of Chemical and Materials Science Data”, National Science Foundation ACI, **\$2,578,121**, 1/1/2016 – 12/31/2019.
2. PI (Svetlana Kilina is co-PI), “Nonlinear absorbing Ir(III) complexes: Controlling optical properties via rational design”, 5/1/2013 – 4/30/2016, NSF, **\$815,994**.
3. Co-PI (Hongshan He is PI), “Broadband Absorbers for High Efficiency Nanostructured Organic Solar Cells”, 9/1/2011 – 8/31/2014, NSF, **\$516,959**.
4. Co-PI (Kalpana Katti is the PI and 3 other co-PIs), “Center for Engineered Living Non-Living Materials Interfaces” (pre-proposal), 8/1/2011 – 7/31/2017, NSF, **\$18,970,000**.

5. Senior Personnel (Erika Offerdahl is the PI, Mukund Sibi is the co-PI), “Research on the Prairies: Undergraduate Training in the Molecular Sciences”, 09/01/11 – 08/31/14, NSF, **\$358,445**.
6. Co-PI, “Combined experimental-computational design of new third-order nonlinear optical materials”, 7/1/2010 – 6/30/2015, DoD MURI, **\$7,500,000**. (My budget is **\$2,111,739**).
7. Co-PI, “Improved X-ray stimulated photodynamic therapy for cancer treatment”, 7/1/2010 – 8/31/2014, American Cancer Society, **\$810,000**.
8. Senior Personnel (Erika Offerdahl is the PI, Mukund Sibi is the co-PI), “Research on the Prairies: Undergraduate Training in the Molecular Sciences”, 5/1/2010 – 8/15/2013, NSF, **\$355,517**.
9. PI, “Novel Luminescent Organometallic Complex Based Continuous Nanowires: Synthesis, Fabrication, and Characterizations”, 9/1/2009 – 8/31/2011, EPSCoR IIP Seed Pilot Program, **\$99,913**
10. Co-PI, “CRIF:MU - Acquisition of a Single Crystal X-ray Diffractometer and Upgrade of Existing Powder X-ray Diffractometer”, 9/1/2008 – 8/31/2011, NSF, **\$498,479**.
11. Co-PI, “Using nanotechnology to enable photodynamic therapy for deep cancer treatment”, 12/1/2008 – 11/30/2010, NIH, **\$375,000**
12. Co-PI, “Center of Nanobiotechnolgal Research in Cancer Therapy”, 7/1/2007 – 6/30/2012, NIH CoBRE Preproposal, **\$10,224,500**.
13. PI, “d⁸ Transition-metal terdentate complexes based charge-transfer polyads and dendrimers: synthesis, photophysics and nonlinear optical studies”, 7/1/2005 – 8/31/2008, ACS-PRF AC Grant, **\$120,000**. Withdrawn after CAREER proposal was funded.
14. PI, “Organometallic complex / gold nanoparticle/ polymer hybrids as broadband nonlinear optical materials”, 7/1/2005 – 6/30/2008, NSF Chemistry Division, **\$638,848**. Withdrawn after CAREER proposal was funded.
15. PI, “Organometallic complex / gold nanoparticle hybrid polymeric materials for broadband optical limiting applications”, 6/1/2005 – 5/31/2008, DEPSCoR (AFOSR, Chemistry and Life Science Division), **\$633,248**.
16. co-PI, “IGERT: Infrastructure and materials preservation”, NSF, 7/1/2005 – 6/30/2010, **\$2,941,301**.
17. Co-PI, “Multi-targeted approach in detection and treatment of breast cancer”, NIH COBRE, **\$9,500,000**.
18. PI, “CAREER: Transition-metal aryldiacetylide dendrimers as nonlinear optical materials”, 7/1/03 – 6/30/08, National Science Foundation, **\$667, 903**.
19. PI, “Acquisition of a nanosecond laser flash photolysis spectrometer system for optical limiting materials research and education”, 4/1/03 – 3/31/04, DoD DURIP (Defense University Research Instrumentation Program), **\$142,515**.
20. PI, “Transition-Metal Triarylpyridyl Arylacetylide Polymers as Broadband Optical Limiting Materials”, 6/1/03 – 5/31/06, DEPSCoR, **\$500,000**.
21. PI, “Development and Characterization of Transition-Metal Aryldiacetylide Dendrimers for Third-order Nonlinear Optical Applications”, 9/1/2003 – 8/31/2006, Beckman Foundation Young Investigator Program, **\$240,000**.
22. PI, “Transition-metal aryldiacetylide Dendrimers for nonlinear optical applications”, 1/1/03 – 12/31/04, Research Corporation, Research Innovation Awards, **\$35,000**.
23. PI, “Transition-metal arylacetylene polymers for optical limiting applications”, 4/1/02 – 3/31/05, Army Research Office, **\$353,957** (with \$178,143 of matching money, the total program value is **\$532,100**).

24. PI, “Transition-metal arylacetylene polymers for optical limiting applications”, 7/16/02 – 7/15/04, ND EPSCoR, **\$39,958**.
25. PI, “Acquisition of a laser flash photolysis spectrometer for organic material and biophysics research and education”, 8/1/02 – 7/31/04, National Science Foundation, Division of Material Research, **\$104,555**.
26. Co-PI, (Chris Lawson is PI), “Theoretical and Experimental Studies of Nonlinear Optical Metal-Organic Complexes”, 4/1/01 – 3/31/04, National Science Foundation, **\$430,940**.
27. Co-PI, (Chris Lawson is PI), “Nonlinear Optical Studies of Expanded Porphyrin Metal-Organic Complexes”, 4/1/99 – 3/31/02, National Science Foundation, **\$496,413**.

INVITED SEMINARS

1. School of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China, July 1, 2016. (Host: Prof. Haichao Xu)
2. School of Chemistry and Chemical Engineering, Sun Yat-Sen University, Guangzhou, China, June 26, 2016. (Host: Prof. Zongwan Mao)
3. State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou, China, June 23, 2016. (Host: Prof. Anjun Qin)
4. Key Laboratory for Special Functional Materials of Ministry of Education, Henan University, Kaifeng, China, June 22, 2016. (Host: Prof. Hua Wang)
5. School of Materials Science and Engineering, Tianjin University, Tianjin, China, June 17, 2016. (Host: Prof. Yanhou Geng)
6. School of Chemistry and Chemical Engineering, Tianjin University of Technology, Tianjin, China, June 16, 2016. (Host: Prof. Xuguang Liu)
7. College of Chemistry, Nankai University, Tianjin, China, June 15, 2016. (Host: Prof. Xianhe Bu)
8. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, June 26, 2015. (Host: Prof. Jingui Qin)
9. Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, June 24, 2015. (Host: Prof. Min Shi)
10. College of Chemistry and Chemical Engineering, Shanghai Jiaotong University, June 24, 2015. (Host: Prof. Wanbin Zhang)
11. College of Chemistry and Chemical Engineering, Tianjin University of Science and Technology, June 18, 2015. (Host: Prof. Xuguang Liu)
12. State Key Laboratory of Fine Chemicals, Dalian University of Science and Technology, Sept. 1, 2014. (Host: Prof. Jianzhang Zhao)
13. Department of Physics, Harbin Institute of Technology, August 29, 2014. (Host: Prof. Yinglin Song)
14. College of Chemistry, Jilin University, August 28, 2014. (Host: Prof. Yue Wang)
15. Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, August 28, 2014. (Host: Prof. Zhongming Sun)
16. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, June 19, 2014. (Host: Prof. Jingui Qin)
17. College of Chemistry and Chemical Engineering, June 16, 2014. (Host: Prof. Xiyu Li)
18. College of Physics, Suzhou University, China, June 14, 2014. (Host: Prof. Yinglin Song)
19. College of Chemistry and Chemical Engineering, Nanjing University, China, June 11, 2014. (Host: Prof. Jing Ma)
20. College of Science, Nanjing Tech University, China, June 11, 2014. (Host: Prof. Honjun Zhu)
21. College of Chemistry, Fuzhou University, China, May 30, 2014. (Host: Prof. Jiandong Huang)
22. Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, May 29, 2014. (Host: Prof. Qingdong Zheng)

23. Department of Chemistry, University of South Dakota, Vermillion, SD, April 28, 2014. (Host: Prof. Dimitri Kilin)
24. College of Science, Beijing University of Science and Technology, Beijing, China, July 19, 2013. (Host: Prof. Jianzhuang Jiang)
25. College of Chemistry, Sichuan University, Chengdu, China, July 12, 2013. (Host: Prof. Xiaoqi Yu)
26. College of Chemical Engineering and Materials Science, Jiangnan University, Wuxi, China, July 5, 2013. (Host: Prof. Chi Zhang)
27. College of Chemistry, Fudan University, Shanghai, China, July 5, 2013. (Host: Prof. Tao Yi)
28. College of Science, Nanjing University of Technology, Nanjing, China, July 4, 2013.
29. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, July 1, 2013. (Host: Prof. Jingui Qin)
30. College of Chemistry and Chemical Engineering, Hubei University, Wuhan, China, July 2 (2013).
31. College of Science, Beijing University of Science and Technology, Beijing, China, June 11, 2012. (Host: Prof. Jianzhuang Jiang)
32. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing, China, June 12, 2012. (Host: Prof. Yi Li)
33. College of Physics, Peking University, Beijing, China, June 12, 2012. (Host: Prof. Lixin Xiao)
34. College of Chemistry and Chemical Engineering, Hunan University, Changsha, China, June 14, 2012. (Host: Prof. Jianhui Jiang)
35. College of Chemistry, Hunan Normal University, Changsha, China, June 15, 2012. (Host: Prof. Ming Ma)
36. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, June 19, 2012. (Host: Prof. Jingui Qin)
37. College of Chemistry and Chemical Engineering, Central China University of Nationalities, Wuhan, China, June 20, 2012. (Host: Prof. Bingguang Zhang)
38. College of Chemistry, Southeast University of Science and Technology, Shanghai, China, May 31, 2011. (Host: Prof. Min Shi)
39. Institute of Technical Physics, Chinese Academy of Sciences, Shanghai, China, May 31, 2011. (Host: Prof. Xiangjian Meng)
40. School of Scientific Research, Jiangsu University, Zhenjiang, China, June 1, 2011. (Host: Prof. Chi Zhang)
41. College of Science and Mathematics, Nanjing University of Technology, Nanjing, China, June 3, 2011. (Host: Prof. Hongjun Zhu)
42. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, June 7, 2011. (Host: Prof. Jingui Qin)
43. College of Chemistry and Chemical Engineering, Hubei University, Wuhan, China, June 7, 2011. (Host: Prof. Shengfu Wang)
44. Department of Chemistry, Zhengzhou University, Zhengzhou, China, June 9, 2011. (Host: Prof. Fengqi Guo)
45. College of Chemistry and Chemical Engineering, Shandong University, Jinan, China, June 10, 2011. (Host: Prof. Xiyu Li)
46. NDSU Women in Research (WIR) group presentation, March 10 (2011)
47. Department of Chemistry, University of New Mexico, Albuquerque, NM, May 20 (2010) (Host: Prof. Wei Wang)
48. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, August 10, 2009. (Host: Prof. Jingui Qin)
49. Department of Chemistry, Beijing University of Technology, Beijing, China, August 3, 2009 (Host: Prof. Jianzhuang Jiang)
50. College of Chemistry and Chemical Engineering, Shandong University, Jinan, China, July 27, 2009. (Host: Prof. Xiyu Li)

51. Department of Chemistry, University of California Riverside, Riverside, CA, August 14, 2008. (Host: Prof. Pingyun Feng)
52. Department of Chemistry, Renmin University, Beijing, China, June 11, 2008. (Host: Prof. Zili Chen)
53. College of Physics, Peking University, Beijing, China, June 10, 2008. (Host: Prof. Qihuang Gong)
54. College of Chemistry and Chemical Engineering, Shandong University, Jinan, China, June 4-5, 2008. (Host: Prof. Xiyou Li)
55. Department of Chemistry, University of Texas at Arlington, TX, Oct. 14, 2007. (Host: Prof. Purnanda Dasgupta)
56. Department of Materials Science and Engineering, Osaka University, July 28, 2007. (Host: Prof. Fukuzumi)
57. Department of Materials Science, Kyoto University, July 27, 2007. (Host: Prof. Imahori)
58. Department of Chemistry and Biochemistry, Kyushu University, July 25, 2007. (Host: Prof. Ken Sakai)
59. Department of Chemistry, Tsinghua University, Beijing, China, June 20, 2007. (Host: Prof. Yong Qiu)
60. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, June 11, 2007. (Host: Prof. Jingui Qin)
61. College of Chemistry and Chemical Engineering, Shandong University, Jinan, China, June 4-6, 2007. (Host: Prof. Xiyou Li)
62. Department of Chemistry, University of Missouri – Columbia, MO, Dec. 11, 2006. (Host: Prof. Michael Greenlief)
63. Department of Materials Science and Engineering, University of Washington, WA, Nov. 20, 2006. (Host: Prof. Guozhong Cao)
64. Department of Chemistry, University of Michigan, MI, Oct. 26, 2006. (Host: Prof. Theodore Goodson III)
65. Workshop on Nanocomposite and Nanohybrid Materials, hosted by NDSU NSF NIRT program, Fargo, Oct. 6, 2006.
66. Department of Chemistry, University of Illinois at Chicago, IL, Sept. 20, 2005. (Host: Prof. Luke Hanley)
67. Institute of Coordination Chemistry, Department of Chemistry, Nanjing University, China, May 2005 (Host: Prof. Chunying Duan)
68. Department of Chemistry, Nanjing University of Technology, China, May 2005 (Host: Prof. Hongjun Zhu)
69. Department of Electronic Engineering, Southeast University, China, May 2005 (Host: Prof. Yiping Cui)
70. College of Chemistry and Molecular Science, Wuhan University, China, May 2005 (Host: Prof. Jingui Qin)
71. Department of Chemistry, Beijing University, China, May 2005. (Host: Prof. Liangbing Gan)
72. Institute of Chemistry, Chinese Academy of Sciences, China, May 2005. (Host: Prof. Guoqiang Yang)
73. College of Chemistry, Fuzhou University, China, May 2005 (Host: Prof. Jiandong Huang)
74. Department of Chemical and Biomolecular Engineering, Tulane University, July, 2004 (Host: Prof. Yunfeng Lu)
75. Department of Physics, North Dakota State University, Nov. 2003 (Host: Prof. Alan Denton)
76. Department of Physics, University of North Dakota, Nov. 2001 (Host: Prof. Taiping Chen)
77. Department of Chemistry, University of Southern Mississippi, March 2001
78. Department of Chemistry, University of Alabama at Birmingham, March 2001
79. Department of Chemistry, North Dakota State University, March 2001

ADVISING

- *Major Advisor* for

- Ph.D. graduate student Bingqing Liu, Jan. 2015 – present
- Ph.D. graduate student Manqing Wei, August 2014 – Dec. 2015
- Ph.D. graduate student Rahul Hegishte, August 2013 – Dec. 2013
- Ph.D. graduate student Chengzhe Wang, Jan. 2013 - present
- Ph.D. graduate student Kamaljeet Singh, August 2012 – May 2013 (left program in May 2013).
- Zhongjing Li, Jan 2009 – July 2013, obtained his Ph.D. degree in July 2013.
- Jing Yi, Sept. August 2008 – May 2010, obtained her M.S. degree in May 2010
- Zhiqiang Ji, August 2005 – May 2009, obtained his Ph.D. in April 2009
- Iswarya Mathew, Jan. 2005 – May 2009, obtained her Ph.D. in May 2009
- Tian Lv, August 2005 – May 2008, obtained her M.S. degree in May 2008
- Ph.D. graduate student Li Wen, August 2003 – Jan. 2004
- M.S. graduate student Nichole Miller, Jan. 2003 – Dec. 2005
- *Examining Committee Member* for
 - Levi Lystrom, Ph.D. candidate, Chemistry and Biochemistry (2015 – present)
 - Jabed Mohammad, Ph.D. candidate, Chemistry and Biochemistry (2014 – present)
 - Anthony Clay, Ph.D. candidate, Chemistry and Biochemistry (2013 – present)
 - Brendan Gifford, Ph.D. candidate, Chemistry and Biochemistry (2013 – present)
 - Kwaku Baryeh, Ph.D. candidate, Chemistry and Biochemistry (2013 – present)
 - Junru Yu, Ph.D. candidate, Chemistry and Biochemistry (2013 – present)
 - Naveen Dandu, Ph.D. candidate, Chemistry and Biochemistry (2011 – present)
 - Xiaoguang Zhang, MS candidate, Chemistry and Biochemistry (2013 – present)
 - Meenu Baloda, Ph.D., Chemistry (2009 – 2015, obtained Ph.D. degree in 2015)
 - Anant Gurung, Ph.D., Chemistry (2009 – 2015, obtained Ph.D. degree in 2015)
 - Barry Pemberton, Ph.D., Chemistry (2008 – 2012, obtained Ph.D. degree in 2012)
 - Samim Alam, Ph.D., Coatings and Polymeric Materials (2007 – 2011, obtained Ph.D. degree in 2011)
 - Shakila Tobwala, Ph.D., Biochemistry (2005 – 2009, obtained Ph.D. degree in Dec. 2009)
 - Rajesh Subramaniam, Ph.D., Pharmacy (2004 – 2008, obtained Ph.D. degree in Dec. 2009)
 - Alex Kugel, Ph.D., Coatings and Polymeric Materials (2006 – 2009, obtained Ph.D. degree in Dec. 2009)
 - John Goering, M.S., Chemistry (2007 – 2008, obtained M.S. degree in July 2008)
 - Zhigang Chen, Polymers and Coatings (2003 – 2006, obtained Ph.D. degree in May 2006)
 - Biana Shilshut, Mathematics (2004 - 2005, obtained M.S. degree in May 2005)
 - Binita Chandra, Chemistry (2002 – 2004, obtained M.S. degree in May 2004)
 - Rajesh Puthenkivilakom, Polymers and Coatings (2002 – 2003, obtained M.S. degree in Dec. 2003)
 - Bratati Ganguly, Ph.D. Candidate, Biochemistry (2007 – 2010)
 - Tamer Alwaffai, M.S. Candidate, Chemistry (2009 – 2010)
 - Nitesh Sule, Ph.D. candidate, Biochemistry (2007 – 2014)
 - Sumathra Manokaran, Ph.D. Candidate, Biochemistry (2007 – 2010)
 - Suad Nadi, Ph.D. Candidate, Chemistry (Jan. 2006 – 2010)
 - Manjusha Saraswathiamma, Chemistry (April 2006 – 2007, left chemistry program in 2007)
 - Jason Smart, Chemistry (2002 – 2003, left chemistry program in 2003)
 - Rahima Benhabbour, Chemistry (2002 – 2003, left chemistry program in 2003)
 - Clare C. Byeon, Ph.D., Physics, University of Alabama at Birmingham (1999 – 2001)
- *Mentor* for
 - Dr. Li Wang, Postdoctoral Fellow (Feb. 2015 – present)
 - Dr. Xiaolin Zhu, Postdoctoral Fellow (June 2015 – present)

- Dr. Hui Li, postdoctoral fellow (Oct. 2014 – present)
 - Mr. Wei Xu, visiting graduate student (Nov. 2015 – present)
 - Mr. Xiaolin Zhu, visiting researcher (Jan. 2015 – May 2015)
 - Dr. Shan Liu, visiting scholar (Sept. 2013 – Sept. 2014)
 - Dr. Chengkui Pei, postdoctoral fellow (May 2012 – Jan. 2014)
 - Prof. Ahmed Aamili, Fulbright Visiting Scholar (July – October, 2013)
 - Dr. Rui Liu, postdoctoral fellow (Oct. 2010 – August 2012)
 - Dr. Xuguang Liu, postdoctoral fellow (May 2010 – August 2012)
 - Dr. Yuhao Li, postdoctoral fellow (August 2011 – August 2012)
 - Dr. Suyue Li, postdoctoral fellow (April 2009 – March 2010)
 - Dr. Bingguang Zhang, postdoctoral fellow (Sept. 2006 – March 2009)
 - Dr. Yunjing Li, postdoctoral fellow (May 2006 – March 2010)
 - Dr. Pin Shao, postdoctoral fellow (Nov. 2005 – June 2008)
 - Dr. Gang Wang, postdoctoral fellow (Oct. 2005 – April 2006)
 - Dr. Fengqi Guo, postdoctoral fellow (March 2002 – June 2004)
 - Dr. Hongjun Zhu, visiting scholar (August 2004- Nov. 2004)
 - Taotao Lu, visiting graduate student from Hubei University, China (Nov. 2013 – present)
 - Lei Hu, visiting graduate student from Hubei University, China (Nov. 2011 – Feb. 2013)
 - Rui Liu, visiting graduate student from Nanjing University of Technology, China (Feb. 2010 – August 2010)
 - Yuhao Li, visiting graduate student from Nanjing University of Technology, China (Jan. 2011 – June 2011)
 - Hui Zhang, visiting graduate student from Nanjing University, China (Oct. 2007 – Nov. 2008)
 - Yasin Arslanoglu, visiting graduate student from Turkey (Sept. 2006 – March 2007)
 - Wenling Jia, visiting graduate student from University of Florida (July – August, 2003)
 - Marcus Geffre, Undergraduate Research Assistant (Fall 2012)
 - Chris Hanson, Undergraduate Research Assistant (Fall 2009 – Fall 2010)
 - Indiwari Gopallawa, undergraduate research assistant (May 2009 – July 2009)
 - Andrew Sand, undergraduate research assistant (Sept. 2007 – July 2008)
 - Scott Jungwirth, URM student (Feb. 2006 – May 2006)
 - Adam Wolfe, Undergraduate Research Assistant (June 2007 – August 2007)
 - Paul Barron, REU, AURA and Undergraduate Research Assistant (May 2002 – July 2005)
 - Scott Jason Dee, REU student (May 2002 – July 2002)
 - Young An, REU student (May 2002 – July 2002)
 - Gregory Rhode, Undergraduate Research Assistant (August 2001 – May 2003)
 - Christa Berge, URM student (Sept. 2001 – May 2002)
 - Kary Martin, URM student and Undergraduate Research Assistant (Sept. 2001 – Dec. 2002)
 - Danielle Dyk, URM and Undergraduate Research Assistant (Sept. 2001 – May 2003)
 - Tron Ho, Department of Chemistry, University of Alabama at Birmingham (1998-1999)
 - Aaron Tank, high school teacher (June 2006 – July 2006)
 - Andrew Sand, Governor's School student and Research Assistant (June - July 2005, June - August 2006, & June – July 2007)
 - Stacy Bjorgaard, Governor's School student (June – July 2004)
 - Dana Powell, Governor's School student (June – July 2003).
- *Dissertation Advisor for*
 - Mr. Ya-Peng Deng (B.S.), Beijing Normal University, 1997
 - Xin-Chuan Yu (B.S.), Department of Chemistry, Beijing Light Industry College, 1996

- Hao-Yu Ji (B.S.), Chemical Engineering College, Beijing Union University, 1996

SERVICE ACTIVITIES

University Committees

1. Faculty Senate (August 2015 – present)
2. Standing Committee on Faculty Right (August 2015 – present)
3. Faculty Senate Research and Consulting Committee (August 2014 – present)
4. VPRCA Search Committee Member (Oct. 2012 – April 2013)
5. Graduate School Dean Evaluation Committee Member (Sept. 2012 – Jan. 2013)
6. University Equal Opportunity Hearing Panel (member, 2011-2013)
7. Commission on Status of Female Faculty (member, 2011-2014)
8. Graduate School marshal for spring commencement ceremony (2011)
9. Graduate Council (member, May 2010 – May 2013)
10. Listening Group (member, August 2010 – October 2010)
11. Faculty mentor for new faculty through campus-wide mentoring program (2010 – 2012)
12. Graduate Council representative on the Program Review Committee for Materials & Nanotechnology Program (Fall 2010)
13. University Senate Grade Appeal Board (member, August 2007 – August 2010)
14. University Senate Faculty Development Committee (member, May 2004 – May 2008)
15. University Senator, Sept. 2005 – May 2006

College Committees

16. College Award Committee (member, 2011 – present, **Committee Chair** since 2015)
17. College Promotion and Tenure Evaluation Committee (Jan. 2008 – May 2010. **Committee Chair** from August 2009 to May 2010)
18. College Equipment Committee (2010 – 2011)
19. Dean's Advisory Committee (member, Fall 2007– Fall 2009)

Department Committees

20. Department Research Strategies Committee (Member, Jan. 2016 – present)
21. Department Award Nomination Committee (**Committee Chair**, July 2009 – 2013)
Nominating appropriate candidates for College and University awards. Three colleagues obtained College awards through our nomination.
22. Department Graduate Student Recruiting and Admission Committee (member, Fall 2001 – Spring 2006, & Fall 2009 – Fall 2015)
Evaluating graduate student applications and hosting visiting prospective students.
23. Department Seminar Committee (member, Fall 2001 – Fall 2003, Fall 2009 – 2015, **Committee Chair**, Jan. 2016 - present)
24. Department Promotion and Tenure Evaluation Committee (Jan. 2007 – Dec. 2008. **Committee Chair** from Jan 2008 to Dec. 2008)
25. Department Safety Officer (July 2007 – May 2009)
26. Departmental Graduate Student Progress Committee (member, Fall 2005 – Fall 2007)
Advising first-year students to select courses, and evaluating second-year student seminars.
27. Departmental NMR staff search committee (member, Fall 2004 – spring 2005)
28. Department faculty search committee (member, May 2005 – Jan. 2006)
29. Department Material Characterization Lab Director search committee (member, Spring 2005 – Fall 2005)
30. Department Public Relation Committee (member, April 2006 – June 2009)
31. Department Library Liaison (Fall 2001 –present)
32. Department Facilities Committee (member, Fall 2001 – Fall 2002)

33. Department Social Committee (member, Fall 2001 – Fall 2002)

Professional Services

1. *Editorial Board Member*, JSM Chemistry (2014 – present)
2. *Editorial Board Member*, Reports in Theoretical Chemistry (2011 – present)
3. *Editorial Board Member*, Organic Chemistry: Current Research (2011 – present)
4. *Editorial Board Member*, Mediterranean Journal of Chemistry (2011 – present)
5. *Lead Organizer* for the 2016 MRS Spring Meeting Symposium EP9: Materials and Processes for Nonlinear Optics, March 28 – April 1, Phoenix, AZ, 2016.
6. *Session Chair*, Pacificchem 2015 Symposium 269, Dec. 15-20, Honolulu, Hawaii, 2015.
7. *Session Chair*, the 11th Sino-US Chemistry Professor Symposium, July 21-23, Suzhou, China, 2015.
8. *Session Chair*, International Symposium on Electrooptics and Nonlinear Optics (ISENO), Sept. 2-4, Harbin, China, 2014.
9. *Lead Organizer* and *Session Chair* for the 2014 MRS Spring Meeting Symposium JJ: Materials and Processes for Nonlinear Optics, April 22-24, San Francisco, CA, 2014.
10. *Co-organizer* and *Session Chair* for the 10th Sino-US Chemistry Professor Symposium, June 15-17, Jinan, China, 2014.
11. *Session Chair*, the 9th Sino-US Chemistry Professor Symposium, July 12-14, Chengdu, China, 2013.
12. *Session Chair*, the 244th ACS National Meeting, Philadelphia, PA, August 19, 2012.
13. *Site Visit Team Member* for NSF Partnership for Research and Education in Materials (PREM) Program in New Mexico Highlands University, Nov. 7-8, 2011.
14. *Session Chair*, the 18th International Conference on Photochemistry and Photophysics of Coordination Compounds, Sapporo, Japan, July 4-9, 2009.
15. *Member of the International Scientific Advisory Committee* for the International Symposium on Materials and Devices for Nonlinear Optics, France, June 26 – July 1, 2009.
16. *Session Chair*, the OSA Topical Conference on Nanophotonics, Nanjing, China, May 26-29, 2008
17. *Session Chair*, the First Asian Conference on Coordination Chemistry, Okazaki, Japan, August 2007.
18. *Member of the International Scientific Advisory Committee* for the International Symposium on Materials and Devices for Nonlinear Optics, Ireland, June 2006.
19. *Board Member*, Chinese-American Chemistry and Chemical Biology Professor Association (2008 – present)
20. *One of the four organizers* for the *Workshop on Nanocomposite and Nanohybrid Materials* organized by NDSU NSF NIRT team, Fargo, Oct. 6, 2006.
21. Served as a panelist on two NSF DMR Electronic and Photonic Materials Program panels in Feb. and Sept. 2015.
22. Proposal reviews for *NSF, NIH, AFOSR, ACS-PRF, ND NASA EPSCoR, NDSU RDSP, the City College of the City University of New York Research Award Program, South Dakota State University Development Foundation*
23. Manuscript review for *J. Am. Chem. Soc., Inorg. Chem., J. Phys. Chem. A & B, Organometallics, Appl. Phys. Lett., Opt. Mat., Opt. Lett., Eur. J. Inorg. Chem., Opt. Commun., J. Macromol. Sci., J. Opt. Soc. Am. B, Langmuir, Synthetic Metals, J. Macromolecular Science – Polymer Reviews, Journal of Colloid and Interface Science, Ultramicroscopy, Coordination Chemistry Review, IEEE Transactions on Nanotechnology*

Public Services

1. Guest speaker for NDSU WIR (Women in Research) group. (March 10, 2011)

2. *Panelist* for NSF CAREER Proposal Workshop, hosted by NDSU College of Science and Mathematics and College of Engineering and Architecture (2009)
3. *Panelist* for Geer-up for Grant: NSF CAREER Proposal Workshop, hosted by NDSU Office of VP for Research (2008)
4. *Panelist* for NDSU ADVANCE Forward program (2008)
5. *Panelist* for NSF CAREER Proposal Workshop, hosted by NDSU College of Engineering and Architecture (2007)
6. *Judge* for the State Science and Engineering Fair (April, 2004)

Host for seminar speakers

- Prof. Clemens Burda, Case Western Reserve University (Sept. 2013)
- Prof. Felix Castellano, Bowling Green State University (Sept. 2012)
- Prof. Russell Schmehl, Tulane University (March 2012)
- Prof. David McMillin, Purdue University (April 2011)
- Prof. Peter Ford, University of California Santa Barbara (April 2010)
- Prof. Wei Chen, University of Texas Arlington (August 2007)
- Prof. Luke Hanley, University of Illinois at Chicago (March 2007)
- Prof. Weihong Tan, University of Florida (April, 2006)
- Prof. Ken Sakai, Kyushu University, Japan (Feb. 2006)
- Prof. Theodore Goodson, III, University of Michigan (Feb. 2005)
- Prof. Yunfeng Lu, Tulane University (Sept. 2004)
- Prof. Rigobet Advincula, University of Houston (Oct. 2002)
- Prof. Kanishka Marasinghe, University of North Dakota (Feb., 2002)

RECRUITING SEMINARS

1. Shanghai Jiaotong University, China, 2015
2. Tianjin University of Science and Technology, China, 2015
3. Jilin University, China, 2014
4. Institute of Applied Chemistry, Chinese Academy of Sciences, China, 2014
5. Dalian University of Science and Technology, China, 2014
6. Fuzhou University, China, 2014
7. Sichuan University, China, 2013.
8. Fudan University, China, 2013.
9. Jiangnan University, China, 2013.
10. Hubei University, China, 2013.
11. Hunan University, China, 2012.
12. Hunan Normal University, China, 2012.
13. Central China University of Nationalities, China, 2012.
14. Southeast University of Science and Technology, China, 2011.
15. Jiangsu University, China, 2011.
16. Nanjing University of Technology, China, 2011.
17. Hubei University, China, 2011.
18. Zhengzhou University, China, 2011.
19. University of Wisconsin River Falls, Oct. 16, 2009.
20. Minnesota State University Mankato, Oct. 19, 2009.
21. Wuhan University, Wuhan, China, August 10, 2009.
22. Beijing University of Science and Technology, China, August 6, 2009.
23. Renmin University, Beijing, China, June 11, 2008.
24. Peking University, Beijing, China, June 10, 2008.

25. Shandong University, Jinan, China, June 4, 2008.
26. South Dakota State University, Sept. 19, 2007.
27. Tsinghua University, China, June 20, 2007.
28. Wuhan University, China, June 11, 2007.
29. Shandong University, China, June 3, 2007.
30. University of North Dakota, Grand Folks, ND, Sept. 15, 2006
31. Bemidji State University, Bemidji, MN, Nov. 18, 2005
32. Department of Chemistry, Nanjing University of Technology, China, May 16, 2005
33. Institute of Coordination Chemistry, Nanjing University, May 16, 2005
34. College of Chemistry and Molecular Science, Wuhan University, China, May 20, 2005
35. Department of Chemistry, Peking University, China, May 22, 2005
36. College of Chemistry, Fuzhou University, China, May 10, 2005
37. St. Cloud State University, St. Cloud, MN, Nov. 22, 2004
38. Augsburg College, Minneapolis, MN, Oct. 9, 2004
39. Minnesota State University – Moorhead, Moorhead, MN. Nov. 17, 2003
40. University of Minnesota – Morris, Morris, MN. Sept. 18, 2003
41. St. John University/St. Benedict College, MN. April 10, 2003
42. Concordia College, Moorhead, MN. Jan. 23, 2003
43. Bismarck State College, Oct. 4, 2002
44. University of Minnesota Duluth, Sept. 20, 2002
45. Chemistry Department, NDSU, June 14, 2002. (Seminar to REU students)