

Suning Wang 2010)

Curriculum Vitae (updated Publication list on May 7,

Education

- 1982-1986 Ph.D. Department of Chemistry, Yale University, New Haven, CT
Supervisor: Richard D. Adams
Thesis title: Reactions of Tetranuclear and Pentanuclear Osmium Carbonyl Cluster Compounds with Small Molecules
- 1978-1982 B.Sc. Department of Chemistry, Ji Lin University, Chang-Chun, PRC
Research thesis title: Improving the Performance of Zeolites

Academic Employment

- 2003- Associate Head of Chemistry
2000- Chemistry, Queen's University, Kingston, Ontario Professor
1996-2000 Chemistry, Queen's University, Kingston, Ontario Associate Professor
1993-1996 Chemistry & Biochemistry, University of Windsor, Windsor, Ontario Associate Professor
1990-1993 Chemistry & Biochemistry, University of Windsor, Windsor, Ontario Assistant Professor
1986-1989 Chemistry, Texas A&M University, College Station, Texas, Postdoctoral Fellow
Supervisor: John P. Fackler, Jr.
Research projects: Organometallic gold, platinum, and silver complexes; Metal-metal bondings and luminescence

Industrial Employment

- 1989-1990 Digital Specialty Chemicals, Ltd., Mississauga Organic/Organometallic syntheses

Membership in Professional Societies

Chemical Institute of Canada, American Chemical Society, Materials Research Society

Awards and Honors

- 2010 2010 Recipient of the Chemistry Graduating Class Excellence in Teaching Award
2008-2011 Sea and Sky Scholar at the Dalian Institute of Science and Technology
2007 **Queen's University Prize for Excellence in Research**
2007 **The Canadian Society for Chemistry, Alcan Award for distinguished contributions in Inorganic Chemistry**
2004-2014 Queen's University Research Chair
2002 Fellow of the Chemical Institute of Canada
2002-present Guest Professor at the School of Chemistry, Jilin University, PRC
2001 **The Federation of Chinese Canadian Professionals (Ontario), Education Foundation, 2001 Award of Merit**
2000 **The Rutherford Memorial Medal of the Royal Society of Canada (Chemistry)**
1996 - 2001 Queen's University National Scholar

1993 IUPAC Travel Award
1987 – 1989 Robert Welch Fellowship
1982 - 1983 US-China Chemistry Graduate Program (CGP, “The Doering Program”) Fellowship

Professional Service

- Editorial board, *Inorganic Chemistry*, 2010-2012.
- Editorial board, *Organometallics*, 2007-2009.
- *Canadian Journal of Chemistry*, Editorial Board, 2005-2008.
- Associate Head, Department of Chemistry, Queen’s University, 2002-present.
- Member of the Nano-technology Advisory Committee at Queen’s University 2002-2004
- The North American Review Board of *Dalton Transactions*
- NSF grant selection panels (Organic photonics, electronics and magnetism, Division of Electric and Communication Systems, 2004; Organic dynamics, Division of Chemistry, 2008)
- NIH Study Panel (Sensors and probes) 2006
- Symposium Organizer for CSC annual meetings in 1997 and 2001, Pacificchem 2005 and 2010.
- NSERC Strategic Research Grant Committee (the panel on Value-added products) 2002-2005.
- NSERC discovery research grant selection committee (#24), 2005-2008.

Invited presentations and seminars

- (1) Research seminar given at the University of Michigan, Ann Arbor, Michigan, 1991
- (2) Research seminar given at the University of Toledo, Ohio, 1993.
- (3) Workshop lecture, given in the workshop of *Toward New Materials through Inorganic and Organometallic chemistry*. CSC, Annual meeting, June, Edmonton, Alberta, 1992.
- (4) Research seminar given at Wayne State University, Detroit, Michigan, April, 1994.
- (5) Research seminar given at the University of Western Ontario, London, Ontario, November, 1994.
- (6) Research Seminar given at the University of Guelph, Guelph, Ontario, March, 1995.
- (7) Presentation " *Organoaluminum Amido and Imido Compounds*" given at the Northeastern ACS meeting, Symposium “*Organoaluminum Chemistry*” Rochester, New York, October, 1995.
- (8) Research Seminar given at the Queen's University, Kingston, Ontario, October, 1995.
- (9) Presentation "*Structures and Magnetic Properties of Polynuclear Lanthanides and Copper Complexes*" given at the *Molecular Magnetism* symposium of the 79th CSC annual meeting at St John's, Newfoundland, 1996.
- (10) Presentation "*Blue Luminescent Aluminum Compounds*" given at the Symposium on Frontiers of Chemistry, CWCYC-2, The Hong Kong University of Science and Technology, Hong Kong, December 22, 1997.
- (11) Research seminar given at the University of Western Ontario, London, Ontario, 1997
- (12) Research Seminar given at McMaster University, March, 1998.
- (13) Presentation "*Blue luminescent Aluminum and Boron Compounds*" given at the *Inorganic Materials* Symposium of the 81st CSC annual meeting at Whistler, B.C., 1998.
- (14) Research Seminar given at Clarkson University, Potsdam, New York, October, 1998.
- (15) Research Seminar given at the Physics Department, Queen's University, November, 1998.
- (16) Presentation " *Blue luminescent Aluminum and Boron Compounds* " given at the 218th ACS national meeting, Richard Adams Organometallic Chemistry Award Symposium in Anaheim, CA, April, 1999.
- (17) Research Seminar given at the University of Waterloo, Waterloo, Ontario, April, 1999.
- (18) Research Seminar given at McMaster University, Hamilton, April, 1999.

- (19) Presentation "*Electroluminescent Applications of Aluminum and Boron Compounds*" given at the 82nd CSC annual meeting, Materials Chemistry symposium, May, 1999, Toronto.
- (20) Presentation "*Electroluminescent Organoboron and Organoberyllium Compounds*", given at the CGP Special symposium of the 220th ACS national meeting in San Francisco, March, 2000.
- (21) Presentation "*Electroluminescent chelate compounds*", given at the 83rd CSC annual meeting, *Recent Advances and New Directions in Materials Science* symposium, May, 2000, Calgary.
- (22) Research Seminar "*Luminescent and Electroluminescent Compounds*", given at the Steacie Institute, NRC, Ottawa, October, 2000.
- (23) Research Seminar given at the University of Houston, Texas, January, 2001.
- (24) Research Seminar given at Texas A&M University, College Station, Texas, January, 2001.
- (25) Research Seminar given at the University of Texas at Austin, Texas, February, 2001.
- (26) Research Seminar, Jilin University, China, May, 2001.
- (27) Research Seminar given at the University of Victoria, Victoria, BC, November, 2001.
- (28) Research Seminar given at the University of British Columbia, Vancouver, BC, November, 2001.
- (29) Research Seminar given at the Simon Fraser University, Burnaby, BC, November, 2001.
- (30) Presentation "*Luminescent Starburst Molecules*" given at the 222nd ACS national meeting, John Fackler, Jr. ACS Inorganic Award Symposium, in San Diego, April, 2001.
- (31) Presentation "New Phosphorescent Metal Complexes", at Canada-France conference on "Molecular Organic Photonics and Electronics", Montebello, Quebec, October, 2001.
- (32) Research seminar given at the Chemistry Department, University of Rochester, Rochester, NY, April, 2002.
- (33) Research seminar given at the Eastman Kodak Company, Rochester, NY, April, 2002.
- (34) Research Seminar given at the Chemistry Department, Jilin University, Jilin, PR. China, June, 2002.
- (35) Research Seminar given at the Chemistry Department, University of Laval, February, 2003.
- (36) Presentation given at the 2003 ACS Northeast Regional Meeting, Symposium "*Brilliant Chemistry: Light Emission and/or Harvesting via Organic and Organometallic materials*". Saratoga, NY, June, 2003.
- (37) Presentation given at The 39th IUPAC Congress and 86th Conference of The Canadian Society for Chemistry in Ottawa, Symposium "*Supramolecular Synthesis of Advanced Materials*" Ottawa, August, 2003.
- (38) Presentation given at the "OLEDs Day" Workshop, organized by Materials Manufacturing Ontario, July, 30th, 2003.
- (39) Research seminar given at the Canadian Bank Notes Company, Ottawa, August 1, 2003.
- (40) Research seminar given at the Chemistry Department, Carleton University, Ottawa, November 24, 2003.
- (41) Research seminar "*Luminescent Molecules for OLEDs and Supramolecular assembly*" given at the Xerox Research Center of Canada, Mississauga, Ont, November 27, 2003.
- (42) Research seminar given at the department of chemistry, University of Ottawa, August, 2004.
- (43) Research seminar given at the school of chemistry, Jilin University, China, June, 2004.
- (44) Research seminar given at the Applied Chemistry Institute, Chinese Academy of Science, Chang Chun, Jilin, China, June, 2004.
- (45) Research seminar given at the Department of Chemistry, Southern Methodist University, Dallas, TX, October, 2004.
- (46) Research seminar given at the department of chemistry, U of Alberta, Edmonton, Alberta, November, 2004.
- (47) Research seminar given at the department of chemistry, U of Calgary, Calgary, Alberta, November, 2004.
- (48) Presentation at the ACS Southwestern Regional Meeting, Symposium "Optoelectronic properties

- of Close-shell metal complexes”, Fort Worth, TX, September, 2004.
- (49) Presentation at the ACS Northeastern Regional Meeting, Symposium “Transition Metal Photophysics”, Rochester, NY, November 2004.
 - (50) Presentation at the 88th CSC conference, Symposium “New Frontiers in Group 13 Chemistry”, June, 2005, Saskatoon, Saskatchewan.
 - (51) Presentation at the Ontario “OLEDs Day Symposium”, University of Toronto, June, 2005.
 - (52) Presentation at the 79th ACS Colloid and Surface Science Symposium, June, 2005, Potsdam, NY.
 - (53) Presentation given at the Pacifichem2005 conference, Symposium “The Heavy Glow”, December, 2005.
 - (54) Presentation given in the OLEDs workshop, April 28, 2006, Seoul, South Korea.
 - (55) Presentation given in the 89th CSC conference, Symposium “Ligand Design in Transition Metal Chemistry”, Halifax, NS, May, 31, 2006.
 - (56) Presentation given in the 2006 ACS annual meeting, Symposium “Polyfunctional organoboranes – From molecules to materials”, September 12, 2006, San Francisco, CA, USA.
 - (57) Presentation given at the Jilin University, Chang Chun, China, May 8, 2006.
 - (58) Seminar given at the University of Montreal, November, 2006.
 - (59) Research Seminar given at the Department of Chemistry, University of Western Ontario, November 13, 2007.
 - (60) Research Seminar given at the Department of Chemistry, Laval University, September, 2007.
 - (61) Alcan award lecture at the 90th CSC conference, Symposium “Recent development in main group chemistry”, Winnipeg, Manitoba, May, 28, 2007.
 - (62) Research Seminar given at Nagoya University, Japan, May 8, 2007.
 - (63) Research Seminar given at Kyoto University, Japan, May 11, 2007.
 - (64) Research Seminar given at the Department of Chemistry, Rutgers University, Newark, NJ, USA, May, 2008.
 - (65) Research Seminar given at the Department of Chemistry, Nan Kai University, China, May, 2008.
 - (66) Research Seminar given at the School of Chemistry, Jilin University, Chang Chun, China, May 2008.
 - (67) Presentation given at the Inter-American Photochemical Society Annual Meeting, Florida, January 3, 2009.
 - (68) Research Seminar given at the Department of Chemistry, Guelph University, Guelph, Ontario, February 18, 2009.
 - (69) Presentation given at the Solar Cells and Organic Electronics workshop, University of Toronto, May 9, 2009
 - (70) Research Seminar given at the Department of Chemical Engineering, Dalian University of Science and Technology (DLUT), May 25, 2009.
 - (71) Presentation given at the Japan-Canada Coordination Space symposium, Banff, Alberta, July 8-11, 2009.
 - (72) Research Seminar given at the department of Chemistry, University of Windsor, Windsor, Ontario, November 6, 2009.
 - (73) Invited presentation in ACS national meeting, Adams symposium, San Francisco, March 22, 2010.
 - (74) Invited presentation in the Boron Symposium at the CSC conference, May 30, 2010, Toronto.
 - (75) Invited speaker at the Heterocyclic Chemistry Gordon Conference, June, 2010, Rhode Island, USA.
 - (76) Invited presentation at the Hong Kong University of Science and Technology, July 14, 2010.
 - (77) Distinguished Seminar Speaker presentation at the City University of Hong Kong, July 15, 2010.
 - (78) Invited Speaker at the International Symposium on Organometallic Chemistry, Hong Kong, July 16-18, 2010.

- (79) Invited speaker at the 24th International Conference on Organometallic Chemistry, July, 2010, Taipei, Taiwan.
- (80) Invited speaker at the Pacifichem2010, “Organoboron, Organosilicon, and Organophosphorus as Optoelectronic and Energy-related Materials”, December 15-20, 2010, Honolulu, Hawaii.

Patents

- (1) S. Wang, W. Liu, A. Hassan, “Luminescent Compounds and Methods of Making and Using Same”, US Pat., (2001) No. 6,312,835, Issued on November 6, 2001.
- (2) S. Wang, W. Liu, A. Hassan, “Luminescent Compounds and Methods of Making and Using Same”, US Pat, (2001) No. 6,500,569, Issued on December 31, 2001
- (3) S. Wang, W. Liu, A. Hassan, “Luminescent compounds and methods of making and using same”, Canadian Pat. Appl. No 2,278,198, issued on July 26, 2005.
- (4) S. Wang, R. Y. Wang, “Organic Luminescent Compounds and Methods of Making and Using Same”, US Pat. Appl. Publ, 2004, US 2004265628.
- (5) S. Wang, W. L. Jia, “Organic Luminescent Compounds and Methods of Making and Using Same”, US Pat. Appl. Publ, 2004, US 2004265629.
- (6) S. Wang, W.-L. Jia, X. Feng, Z.-H. Lu “Organoboron Luminescent Compounds and Methods of Making and Using Same” US Pat. Appl. Publ, 2006, US 2006036114.
- (7) S. Wang, R. Y. Wang, “Organic Luminescent Compounds and Methods of Making and Using Same”, Canadian Patent Application, No. 2,425,819, filed on April 17, 2003.
- (8) S. Wang, W. L. Jia, “Organic Luminescent Compounds and Methods of Making and Using Same”, Canadian Pat. Appl., No. 2,446,604, filed on April 16, 2004.
- (9) S. Wang, W.-L. Jia, X. Feng, Z.-H. Lu “Organoboron Luminescent Compounds and Methods of Making and Using Same” Canadian Pat. Appl., No. 2,478,041. Filed on August 13, 2004.

Publications in Peer Reviewed Journals and Book Chapters

2010

190. Z. M. Hudson, C. Sun, H. Amarne, M. G. Helander, Z. H. Lu and Suning Wang, “Enhancing Phosphorescence and Electrophosphorescence of Cyclometalated Pt(II) Compounds with Triarylboron”, *Adv. Funct. Mater.* **2010**, submitted.
189. S. B. Zhao and Suning Wang* “Luminescence and Reactivity of 7-azaindolyle derivatives and complexes”, *Chem. Soc. Rev.*, **2010**, in press (accepted in April 2010).
188. Yi Sun, Suning Wang* “Extending π -Conjugation of Triarylborons with a 2,2-Bpy Core: Impact of Donor-Acceptor Geometry on Luminescence, Anion Sensing, and Metal Ion Binding.” *Inorg. Chem.*, **2010**, 49, 4394-4404. (selected by the editor as cover page)
187. S. Martic, G. Wu,* S. Wang* “Probing GC Formation and G-octamer-to-GC Transformation by N²-Functionalized Fluorescent Guanosines”, *Can. J. Chem.* **2010**, in press (accepted in February 2010).
186. H. Amarne, C. Baik, S. K. Murphy, S. Wang* “Steric and Electronic Influence on Photochromic Switching of N,C-chelate Four-Coordinate Organoboron Compounds” *Chem. Eur. J.* **2010**, 16, 4750-4761. (highlight by the editor as “Frontpiece”)
185. S. B. Zhao, Q. Cui, S. Wang* “New Bimetallic Reactivity in Pt₂^{II,II}/Pt₂^{IV,IV} Transformation Mediated by A Benzene Ring”, *Organometallics*, **2010**, 29, 998-1003.
184. W. White, Z. M. Hudson, X. Feng, S. Han, Z. H. Lu, S. Wang*, “Linear and star-shaped benzimidazolyl derivatives: syntheses, photophysical properties and use as highly efficient electron transport materials in OLEDs”. *Dalton Transaction*, **2010**, 39, 892-899.

2009

183. C. Baik, Z. M. Hudson, H. Amarne, S. Wang* “Enhancing the Photochemical Stability of N,C-Chelate Boryl Compounds: C-C Bond Formation *versus* C=C Bond *cis, trans*-Isomerization”, *J. Am. Chem. Soc.* **2009**, *131*, 14549-14559.
182. Z. M. Hudson, Y. Sun, B. Ross, R. Y. Wang, S. Wang,* “The anionic coordination polymer $\{K_2[Pt^{II}_2Ag^I_8(2,2\text{'-bipyridine})_2(O_2CCF_3)_{14}]\}_n$.” *Acta Cryst., C*, **2009**, *C65*, m328-m330.
181. Y. L. Rao, S. Wang*, “Impact of Constitutional Isomers of (BMes2)phenylpyridine on Structure, Stability, Phosphorescence, and Lewis Acidity of Mononuclear and Dinuclear Pt(II) Complexes”. *Inorganic Chemistry*, **2009**, *48*, 7698-7713.
180. Z. M. Hudson, S. Wang*, “Impact of Donor-Acceptor Geometry and Metal Chelation on Photophysical Properties and Applications of Triarylboranes” *Acc. Chem. Res.*, **2009**, *42*, 1584-1596.
179. Z. M. Hudson, S. B. Zhao, R. Y. Wang, S. Wang*, “Switchable Ambient-Temperature Singlet-Triplet Dual Emission in Nonconjugated Donor-Acceptor Triarylboron-PtII Complexes” *Chemistry--A European Journal*, **2009**, *15*, 6131-6137.
178. S. B. Zhao, R. Y. Wang, S. Wang* “Reactivity of SiMe₃- and SnR₃-Functionalized Bis(7-azaindol-1-yl)methane with [PtR₂(μ-SMe₂)]_n (R = Me, Ph) and the Resulting Pt(II) and Pt(IV) Complexes”, *Organometallics*, **2009**, *28*, 2572-2582.
177. Y. Sun, S. Wang*, “Conjugated Triarylboron Donor-Acceptor Systems Supported by 2,2'-Bipyridine: Metal Chelation Impact on Intraligand Charge Transfer Emission, Electron Accepting Ability, and "Turn-on" Fluoride Sensing”, *Inorg. Chem.* **2009**, *48*, 3755-3767.
176. E. Wong, J. Li, C. Seward, S. Wang,* “Cu(I) and Ag(I) complexes of 7-azaindolyl and 2,2'-dipyridylamino substituted 1,3,5-triazine and benzene: the central core impact on structure, solution dynamics and fluorescence of the complexes”, *Dalton Transactions*, **2009**, 1776-1785.
175. Y. Sun, B. Ross, R. Y. Wang, S. Wang*, “Pt(2,2'-bpy)(O₂CCF₃)₂ as a Terminator for [Ag(O₂CCF₃)]_n Aggregates: Syntheses and Structures of Heterobimetallic Pt^{II}Ag^I Complexes”, *Can. J. Chem.* **2009**, *87*, 188-196.(F)

2008

174. S. B. Zhao, P. Wucher, Z. M. Hudson, T. M. McCormick, X. Y. Liu, S. Wang,* X. D. Feng, Z. H. Lu, “Impact of the linker on the electronic and luminescent properties of diboryl compounds: molecules with two BMes2 groups and the peculiar behavior of 1,6-(BMes2)₂pyrene”. *Organometallics*, **2008**, *27*, 6446-6456.
173. S. B. Zhao, G. H. Liu, D. T Song, S. Wang*, “Impact of the Linker Groups in Bis(7-azaindol-1-yl) Chelate Ligands on Structures and Stability of Pt(N,N-L)₂R₂ Complexes”, *Dalton Trans.* **2008**, 6953-6965. Hot article, selected for cover page. (F)
172. T. M. McCormick, S. Wang* “Racemic Atropisomeric N,N-Chelate Ligands for Recognizing Chiral Carboxylates via Zn(II) Coordination: Structure, Fluorescence and Circular Dichroism”, *Inorg. Chem.* **2008**, *47*, 10017-10024. (F)
171. Y. L. Rao, H. Amarne, S. B. Zhao, T. M. McCormick, S. Martic, Y. Sun, R. Y. Wang, S. Wang,* “Reversible Intramolecular C-C Bond Formation/Breaking and Color Switching Mediated by a N,C-Chelate in (2-ph-py)BMes₂ and (5-BMes₂-2-ph-py)BMes₂”, *J. Am. Chem. Soc.* **2008**, *130*, 12898-12900. (C)
170. S. Martic, G. Wu,* S. Wang,* “N²-Functionalized Blue Luminescent Guanosines by 2,2'-Dipyridylamino and 2-(2'-pyridyl)benzimidazolyl Chelate Groups and Their Interactions with Zn(II) Ions”, *Inorg. Chem.* **2008**, *47*, 8315-8323. (F)
169. S. Martic, X. Y. Liu, S. Wang,* G. Wu*, “Self-Assembly of N²-Modified Guanosine Derivatives: Formation of Discrete G-Octamers”, *Chem. Eur. J.* **2008**, *14*, 1196-1204. (F)

168. D. R. Bai, S. J. Han, Z. H. Lu, S. Wang*, “Bright Blue luminescent Pyrenyl-Containing Organosilicon Compounds with Contrasting Charge Transport Functionality: SiPh₂(p-C₆H₄-pyrenyl)(p-C₆H₄-N-benzimidazolyl) and SiPh₂(p-C₆H₄-pyrenyl)(p-C₆H₄-NPh(1-naph))”, *Can. J. Chem.* **2008**, *86*, 230-237. (F)
167. F. H. Li, W. L. Jia, S. Wang, Y. Q. Zhao, Z. H. Lu, “Blue Organic Light-emitting Diodes Based on Mes₂B[p-4,4'-biphenyl-NPh(1-naphthyl)]”, *J. Appl. Phys.* **2008**, *103*, 034509/1-034509/6. (F)
166. S. B. Zhao, G. Wu, S. Wang*, “Steric Impact of Neutral N,N-Chelates on the Structure and Stability of Five-Coordinate Platinum(IV) Complexes: *fac*-Pt^{IV}Me₃ Complexes of BAB and BAM”, *Organometallics*, **2008**, *27*, 1030-1033. (C)

2007

165. S. B. Zhao, T. M. McCormick, S. Wang*, “Ambient-Temperature Metal-to-Ligand Charge-Transfer Phosphorescence Facilitated by Triarylboron: Bnpa and Its Metal Complexes”, *Inorg. Chem.*, **2007**, *46*, 10965-10967. (C)
164. T. M. McCormick, Q. Liu and S. Wang*” “Luminescent Atropisomeric N,N-Chelating Ligands from Copper Catalyzed One-pot C-N and C-C Coupling Reactions”, *Org. Lett.* **2007**, *9*, 4087-4090. (C)
163. D. R. Bai, X. Y. Liu, S. Wang*, “Charge Transfer Emission Involving Three-Coordinate Organoboron: V-Shape versus U-shape and Impact of the Spacer on Dual Emission and Fluorescent Sensing”, *Chem. Eur. J.* **2007**, *13*, 5713-5723. (Highlighted article, F)
162. Y. Sun, N. Ross, S. B. Zhao, K. Huszarik, W. L. Jia, R. Y. Wang, D. Macartney, S. Wang* “Enhancing Electron Accepting Ability of Triarylboron via π -Conjugation with 2,2'-Bipy and Metal Chelation: 5,5'-Bis(BMes₂)-2,2'-bipy and its metal complexes”, *J. Am. Chem. Soc.* **2007**, *129*, 7510-7511. (C)
161. Y. Cui, F. H. Li, Z. H. Lu, and S. Wang* “Three-coordinate Organoboron with a B=N bond: Substituent Effect, Luminescence/Electroluminescence and Reactions with Fluorides”, *Dalton Trans.* **2007**, 2634-2643.
160. S. B. Zhao, R. Y. Wang, S. Wang* “Intramolecular C-H Activation Directed Self-Assembly of an Organoplatinum Molecular Square”, *J. Am. Chem. Soc.*, **2007**, *129*, 3092-3093. (C)

2006

159. S. B. Zhao, G. Wu, S. Wang* “Impact of Steric Blocking on Diastereoselective C-H Activation of Ethylbenzene by Cationic Pt(II) Complexes with 7-Azaindolyl Derivative” *Organometallics*, **2006**, *25*, 5979-5989.
158. Y. Cui, S. Wang* “Diboron and trioboron compounds based on linear and star-shaped Conjugated ligands with 8-Hydroxyquinolate Functionality: Impact of Intermolecular Interaction and Boron Coordination on Luminescence” *J. Org. Chem.* **2006**, *71*, 6485-6496.
157. X. Y. Liu, I. Kwan, S. Wang*, G. Wu*, “G-Quartet Formation from an N2-Modified Guanosine Derivatives” *Org. Lett.* **2006**, *8*, 3685-3688.
156. X. Y. Liu, D. R. Bai, S. Wang* “Charge Transfer Emission in Non-planar Three-coordinate Organoboron Compounds for Fluorescent Sensing of Fluoride”. *Angew. Chem. Int.* **2006**, *45*, 5475-5478.
155. L. De La Durantaye, T. McCormick, W. L. Jia, S. Wang* “Interaction of 2-(2'-Pyridyl)benzimidazolyl Derivative Ligands with Group 12 Metal Ions: Coordination, Structures and Luminescence”, *Dalton Trans.* **2006**, 5675-5682.
154. S. B. Zhao, R. Y. Wang, S. Wang,* “Dinuclear Cu^I Complexes of 1,2,4,5-Tetra(7-azaindolyl)benzene: Persistent 3-Coordinate Geometry, Luminescence and Reactivity”, *Inorg. Chem.* **2006**, *45*, 5830-5840.
153. W. H. Huang, W. L. Jia, S. Wang,* “7-Azaindolyl and Indolyl Functionalized Starburst Molecules with a 1,3,5-Triazine or a Benzene Core: Syntheses and Luminescence”, *Can. J. Chem.*, invited contribution to the Walter Szarek special issue, **2006**, *84*, 477-485.

152. T. M^cCormick, W. L. Jia, S. Wang*, “Phosphorescent Cu(I) Complexes of 2-(2'-pyridylbenzimidazolyl)benzene: Impact of Phosphine Ancillary Ligands on Electronic and Photophysical Properties of the Cu(I) Complexes”, *Inorg. Chem.*, **2006**, *45*, 147-155.
151. D. R. Bai, S. Wang*, “Organoplatinum Polymorphs with Varying Molecular Conformation, Intermolecular Interaction and Luminescence” *Organometallics*, **2006**, *25*, 1517.
150. W. L. Jia, Y. F. Hu, J. Gao, S. Wang*, “Linear and Star-shaped Polynuclear Ru(II) Complexes of 2-(2'-pyridyl)benzimidazolyl Derivatives: Syntheses, Photophysical Properties and Red Light-Emitting Devices”, *Dalton*, **2006**, 1721-1728.
149. J. H. Lee, Y. Y. Yuan, Y. J. Kang, W. L. Jia, Z. H. Lu, S. Wang,* “2,5-Functionalized Spiro-Bisiloles As Highly Efficient Yellow Emitters in Electroluminescent Devices”, *Adv. Funct. Mater.* **2006**, *16*, 681-686.

2005

Review articles

148. C. M. Seward, S. Wang*, “Starburst Complexes of Di-2-Pyridylamine Derivatives with a Benzene or 1,3,5-Triazine Core” *Comments on Inorg. Chem.*, **2005**, *26*(1-2), 103-125.

Journal Articles

147. Q. Yue, J. Yang, G. H. Li, G. D. Li, W. Xu, J. S. Chen,* S. Wang, “Three-dimensional 3d-4f heterometallic coordination polymers: Synthesis, structures, and magnetic properties”, *Inorg. Chem.* **2005**, *44*, 5241-5246
146. W. L. Jia, M. J. Moran, Y. Y. Yuan, Z. H. Lu and S. Wang* “(1-Naphthyl)phenylamino Functionalized Three-Coordinate Organoboron Compounds: Syntheses, Structures, and Applications in OLEDs”, *J. Mater. Chem.*, **2005**, *15*, 3326 - 3333.
145. W. L. Jia, T. M^cCormick, Y. Tao, J. P. Lu, S. Wang*, “New Phosphorescent Polynuclear Cu(I) Compounds Based on Linear and Star-shaped 2-(2'-Pyridyl)benzimidazolyl Derivatives: Syntheses, Structures, Luminescence and Electroluminescence”, *Inorg. Chem.* **2005**, *44*, 5706-5712.
144. R. Y. Wang, W.L. Jia, H. Aziz, G. Vamvounis, S. Wang,* N. X. Hu, Z. D. Popović, J. A. Coggan, “1-Methyl-2-(Anthryl)-Imidazo[4,5-f] [1,10]-Phenanthroline: A Highly Efficient Electron Transport Compound and a Bright Blue Emitter for Electroluminescent Devices”, *Adv. Funct. Mater.* **2005**, *15*, 1483-1487.
143. S. B. Zhao, D. T. Song, W. L. Jia, S. Wang,* Regioselective C-H Activation of Toluene with a 1,2-Bis(*N*-7-azaindolyl)benzene Platinum(II) Complex”, *Organometallics*, **2005**, *24*, 3290-3296.
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