

Wujian Miao, PhD

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(i) Professional preparation

1982	Undergraduate Diploma, Chemistry	Nantong University, China
1986	M. Sc. Courses Diploma, Phys. Chem.	Jinan University, China
1991	M. Sc., Electrochemistry	Sun Yat-sen (Zhongshan) Uni., China
2000	Ph.D., Electrochemistry	Monash University, Australia
2/2001-7/2004	Postdoctoral Fellow, Electrochemistry	University of Texas at Austin

(ii) Appointments

8/2010-present	Associate Prof. of Chemistry	University of Southern Mississippi
8/2004-7/2010	Assistant Prof. of Chemistry	University of Southern Mississippi
1/2000-12/2000	Research Scientist	CSIRO, Australia
8/1991-2/1996	Lecturer of Chemistry	Nantong University, China
8/1986-8/1988	Director of Chemistry Labs	Nantong University, China
8/1982-8/1985	Chemistry Lab Technician	Nantong University, China

(iii) Selected professional activities

- Member** of (a) the American Chemical Society, (b) the Electrochemical Society, (c) the Society of Electroanalytical Chemistry, (d) the International Society of Electrochemistry, and (e) the Mississippi Academy of Sciences. **Advisor** of the China's Teachers College Association of Analytical Chemistry (1994-1998). **Fellow** of the Universities & Colleges Laboratorial Management Society of Jiangsu Province (China, 1986-1996).
- Invited reviewer** of more than 30 scientific journals and funding agencies in the past five years, which include: (a) *J. Amer. Chem. Soc.*, (b) *Anal. Chem.*, (c) *Chem. Rev.*, (d) *J. Phys. Chem.*, (e) *Langmuir*, (f) *Proc. Nati. Acad. Sci.*, (g) *Electrochem. Comm.*, (h) *J. Electroanal. Chem.*, (i) *Anal. Chim. Acta*, (j) *Electrochim. Acta*, (k) *Electrophoresis*, (l) *J. Chromatogr.*, (m) *Inorg. Chem.*, (n) *Chem. Euro. J.*, (o) *Angew. Chem. Int. Ed.*, (p) *J. Solid-state Electrochem.*, (q) *Electroanalysis*, (r) *Biomacromolecules*, (s) *Chem. Mater.*, (t) *Colloids Surf.*, (u) *J. Nat. Prod.*, (v) *Bioanalysis*, (w) *Talanta*, (x) *Sensors*, (y) *Nebraska EPSCoR Grant Proposal*, and (z) *NSF Proposals*.
- Advisor/mentor** of (a) four graduate students (Tommie Pittman, MSc, August 2008; Shijun Wang, PhD, May, 2010; Suman Parajuli, PhD, May 2011; Yiliyasi Wusimanjiang, present PhD candidate), (b) nine rotation graduate students (Xiaolan Li, Amit Kumar, Enrendra Manandhar, Narriser Lewis, LaCrissia Bridges, Emily Vogel, Joshua Pillipis, Johnathan Hugh Broome, and Arron Davis), (c) seven visiting professors [Dr. Milka Neshkova from Bulgarian Academy of Sciences (2 weeks, 2006 on an NSF collabotative project); Drs. Jian Shi and Xiaohui Jing from Nantong University (3 months, 2008-2009); Dr. Cunwang Ge from Nantong University (12 months, 2010-2011); Dr. Aixiang Wang and Prof. Lin Li from Linyi University (6 months, 2011-2012); and Dr. Mahesha Herath, Visiting Assistant Prof. at USM, 2012-], (d) one postdoctoral (Dr. Guizheng Zou from Shangdong University, 2011-), (e) more than a dozen undergraduate research students since 08/2004.

(iv) Selected social activities

- **Secretary-General** of the Chinese Student Club at Monash University (1996-1998).
- **Advisor** of the Overseas Exchange Association of Nantong City (China) (1998-2002).

(v) Selected committees served at USM

1. "Department Graduate Admission Committee" (2004-2008).
2. "Department Library Liaison" (2006-).
3. "Department Graduate Recruiting Committee" (2006-2008).
4. "Department Undergraduate Committee" (2008-, Chair 2010-2011, 2012-).
5. "Department Seminar Coordinator" (2008-2010).
6. "Graduate Research Committee" (Chairs for Tommie Pittman, Shijun Wang, Suman Parajuli, and Yiliyasi Wusimanjiang; members for Dale Rosado, William S Jones, Jacob Chris Strawbridge, Shawna L Baolf, Mary Mackey, Hanna Ahmed, Enrendra Manandhar, Narriser Lewis, Nicole Mackey, Souvik Baberjee, and Scott Jones).
7. "Department New Faculty Search Committee" [2006, 2010, 2011(Chair)].
8. "Department Personel Committee (2012).

(vi) Invited seminars/talks outside of USM

1. Department of Chemistry, Jackson State University, MS (November 2004).
2. Institute of General Inorganic Chemistry, the Bulgarian Academy of Sciences (October 2006).
3. School of Chemistry and Chemical Engineering, Nanjing University (May 2007).
4. School of Chemistry and Chemical Engineering, Nantong University (May 2007).
5. Department of Chemistry, Jackson State University, MS (October 2007).
6. "Electrochemistry at the Nanoscale" Symposium at the 60th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Nashville, TN (November 2008).
7. "The 9th Southern School on Material Science and Computational Chemistry", Jackson, MS (July 2009).
8. "The International Symposium on Frontiers of Electrochemical Science and Technology"—a Satellite Meeting of 60th Annual Meeting of International Society of Electrochemistry, Xi'an, China (August 2009).
9. School of Chemistry and Chemical Engineering, Nantong University (August 2009).
10. Department of Chemistry, Mississippi State University (October 2009).
11. Department of Chemistry, Tulane University (October 2010).
12. Department of Chemistry, University of Central Florida (December 2010).
13. School of Chemistry & Resources Environment, Linyi University (May 2011).

(vii) Courses taught at USM

1. CHE 311(311L) —Analytical Chemistry (with lab) (Summers 2006, 2008-2011, Fall 2011).
2. CHE 411(411L)/511—Instrumental Analysis (with lab) (Springs 2005-2012).
3. CHE 400/500—Chemical Literature (Falls 2005-2010).
4. CHE 811—Analytical Electrochemistry (Summer 2007).
5. CHE 689/789—Chemistry Seminars (Fall 2008, Spring and Fall 2009, and Spring 2010).
6. CHE 719—Current Topics of Analytical Chemistry: Electrochemistry (mini-session, Spring 2012)

(viii) Funding obtained at USM (as PI)

1. NSF-MRSEC via USM (NSF-DMR 0213883, 01/01/2006-12/31/2008, ~\$80,000).
2. "Dean's Research Initiative Program" (College of Science and Technology at USM, 2004, \$4000).
3. "New Chemical Sensors Development Using Electrochemically Prepared Active Membranes" (NSF-OISE-0535467, The National Science Foundation, 2006, \$20,000).

4. "Aubrey Keith Lucas & Ella Ginn Lucas Endowment for Faculty Excellence Award" (University of Southern Mississippi, 2008, \$4244).
5. "NSF CAREER Award" (The National Science Foundation, CHE 0955878, 2010-2015, \$660,000).

(ix) International research collaborations established after joining USM

1. Dr. Milka Neshkova, Institute of Inorganic Chemistry, The Bulgarian Academy of Sciences, Sofia, Bulgaria.
2. Professor Erkang Wang, The State Key Electrochemistry Lab, Changchun Institute of Applied Chemistry, The Chinese Academy of Sciences, Changchun, China.
3. Prof. Cunwang Ge, School of Chemistry and Chemical Engineering, Nantong University, China.
4. Prof. Nick Rozhitskii, Biomedical Electronics Department, Kharkiv National University of Radio Electronics, Ukraine.
5. Prof. Chengxiao Zhang, Key Laboratory of Applied Surface and Colloid Chemistry, Ministry of Education, Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, China.
6. Prof. Arthur Chu, Division of Biological and Physical Sciences, Delta State University, MS, USA.

(x) Selected honors and awards

1. "Yao Wannian Scholarship" (Zhongshan University, 1990).
2. "Guanghua Education Scholarship" (Zhongshan University, 1990).
3. "Zhongshan University Top Postgraduate" (Zhongshan University, 1991).
4. "Top Young Teacher in General Universities & Colleges of Jiangsu Province" (The Education Commission of Jiangsu Province, 1994).
5. "Young Teachers Teaching Contest Award" (2nd Place) (Nantong University, 1992).
6. "Excellent Paper Award in Science & Technology" (3rd Place) (The Science & Technology Commission of Nantong City, 1989, 1993, 1995).
7. "Study Abroad Scholarship" (The State Education Commission of China, 1995).
8. "Chunhui Plan Conference Grant-in-Aid" for Excellent Chinese Scholars Abroad (The State Education Commission of China, 1997).
9. "Guangdong Provincial Natural Science Award" (3rd Place) and "Guangdong Institutions of Higher Learning Award for Science and Technology Progress" (2nd Place) for "Investigation of a New Type of Pulse Voltammetry" (Co-awardee, Guangdong Province, 1998).
10. "Monash Graduate Scholarship" (Monash University, 1996-1999).
11. Selected for inclusion in the 2007, 2008, 2009, 2010, 2011, and 2012 editions of Who's Who in America[®] and the 2008 edition of Who's Who in the World[®] (Marquis Who's Who[®] Publication).
12. "Aubrey Keith Lucas & Ella Ginn Lucas Endowment for Faculty Excellence Award" (University of Southern Mississippi, 2008).
13. "NSF CAREER Award" (The National Science Foundation, 2010).
14. "Innovation Award for Applied Research" (University of Southern Mississippi, 2011).

(xi) References

1. **Prof. Allen J. Bard**, Department of Chemistry & Biochemistry, The University of Texas at Austin, A5300, Austin, TX 78712, USA.
Email: ajbard@mail.utexas.edu; *Tel:* (+512) 471 3761; *Fax:* (+512) 471 0088.
2. **Prof. Alan M. Bond**, School of Chemistry, Monash University, PO Box 23, VIC 3800, Melbourne, Australia.
Email: alan.bond@sci.monash.edu.au; *Tel:* (+61-3) 9905 1338; *Fax:* (+61-3) 9905 4597.

3. **Dr. Stephen W. Feldberg**, Chemical Sciences Division, Department of Applied Science, Brookhaven National Laboratory, Upton, NY 11973, USA.
Email: feldberg@bnl.gov; *Tel:* (+631) 344 4480; *Fax:* (+631) 344 2887.

PATENTS & PUBLICATIONS:

A. PATENTS:

1. Bard, A. J. & Miao, W. *Methods and Compositions for the Detection of Biological Molecules Using a Two Particle Complex*, U.S. Pat. Appl. Publ. (Application: US 2005-159412, 2006078912A1 (2006); WO/2006/083305).
2. Miao, W. et al. *TNT Detection in Soil* (U.S. Provisional Application Serial No. 61/262,970, filed November 20, 2009).
3. Miao, W. et al. *HMTD Detection Method* (U.S. Provisional Application Serial No. 61/263,111, filed November 20, 2009).

B. PUBLICATIONS:

I. Book Chapters:

7. Miao, W. & Ge, C. Electrogenenerated Chemiluminescence (ECL), in *Encyclopedia of Supramolecular Chemistry* (eds. Atwood, J. L., Steed, J. W. & Wallace, K.), 1-12 (Taylor & Francis LLC., New York, 2010).
6. Miao, W., Ge, C., Parajuli, S., Shi, J. & Jing, X. Trace Detection of High Explosives with Nanomaterials, in *Trace Analysis with Nanomaterials* (eds. Pierce, D. & Zhao, J.), 161-189, Chapter 7 (Wiley-VCH Verlag, Weinheim, 2010).
5. Miao, W. & Wang, S. Electrogenenerated Chemiluminescence: Principle, Instrumentation and Its Bio-related Applications, in *Handbook of Chemiluminescent Methods in Oxidative Stress Assessment* (eds. Popov, I. & Lewin, G.), 41-83, Chapter 4 (Transworld Research Network, Kerala, 2008).
4. Miao, W. Electrogenenerated Chemiluminescence, in *Handbook of Electrochemistry* (ed. Zoski, C. G.), 541-590, Chapter 13 (Elsevier, HR Amsterdam, 2007).
3. Miao, W. & Choi, J.-P. Coreactants, in *Electrogenenerated Chemiluminescence* (ed. Bard, A. J.), 213-272, Chapter 5 (Marcel Dekker, Inc., New York, 2004).
2. Miao, W. Analytical Processes in Sampling and Sample Preparation, in *Solutions and Skills in Analytical Chemistry Exercises* (ed. Guo, Y.), 330-338, Chapter 12 (Publishing House of Peking Normal University, Beijing, 1993).
1. Miao, W. Spectrophotometry, in *Solutions and Skills in Analytical Chemistry Exercises* (ed. Guo, Y.), 296-329, Chapter 11 (Publishing House of Peking Normal University, Beijing, 1993).

II. Papers in Scientific Journals:

35. Ma, F., Zhang, Y., Qi, H., Gao, Q., Zhang, C. & Miao, W. Ultrasensitive Electrogenenerated Chemiluminescence Biosensor for the Determination of Mercury Ion Incorporating G4 PAMAM Dendrimer and Hg(II)-specific Oligonucleotide. *Biosens. Bioelectron.* **32**, 37-42 (2012)
34. Ge, C., Zhao, Y., Hui J., Zhang, T., Miao, W. & Yu, W. Cathodic Stripping Synthesis, Characterization and Cyto-osmosis of Low Toxicity Glutathione-capped CdTe Quantum Dots, *J. Nanosci. Nanotechnol.* **11**, 6710-6717 (2011).
33. Wang, S., Harris, E., Shi, J., Chen, A., Parajuli, S., Jing, X. & Miao, W. Electrogenenerated Chemiluminescence Determination of C-reactive Protein with Carboxyl CdSe/ZnS Core/Shell

- Quantum Dots. *Phys. Chem. Chem. Phys. (PCCP), Themed Issue: Bioelectrochemistry (Invited)*, **12**, 10073-10080 (2010).
32. Sun, B., Qi, H., Ma, F., Gao, Q., Zhang, C. & Miao, W. Double Covalent Coupling Method for the Fabrication of Highly Sensitive and Reusable Electrogenerated Chemiluminescence Sensors. *Anal. Chem.* **82**, 5046-5052 (2010).
 31. Parajuli, S. & Miao, W. Sensitive Determination of Hexamethylene Triperoxide Diamine Explosives, Using Electrogenerated Chemiluminescence Enhanced by Silver Nitrate. *Anal. Chem.* **81**, 5267-5272 (2009).
 30. Wang, S., Milam, J., Ohlin, A. C., Rambaran, V. H., Clark, E., Ward, W., Seymour, L., Casey, W. H., Holder, A. A. & Miao, W. Electrochemical and Electrogenerated Chemiluminescent Studies of a Trinuclear Complex, $[(\text{phen})_2\text{Ru}(\text{dpp})_2\text{RhCl}_2]^{5+}$, and Its Interactions with Calf Thymus DNA. *Anal. Chem.* **81**, 4068-4075 (2009).
 29. Pittman, T. L., Thomson, B. & Miao, W. Ultrasensitive Detection of TNT in Soil, Water, Using Enhanced Electrogenerated Chemiluminescence. *Anal. Chim. Acta* **632**, 197-202 (2009).
 28. Pittman, T. L. & Miao, W. Examination of Electron Transfer Through DNA Using Electrogenerated Chemiluminescence. *J. Phys. Chem. C* **112**, 16999-17004 (2008).
 27. Wang, S., Neshkova, M. T. & Miao, W. EQCM Study of the ECL Quenching of the Tris(2,2'-bipyridyl)ruthenium(II)/Tris-*n*-propylamine System at a Au Electrode in the Presence of Chloride Ions. *Electrochim. Acta* **53**, 7661-7667 (2008).
 26. Miao, W. Electrogenerated Chemiluminescence and Its Biorelated Applications. *Chem. Rev.* (Invited) **108**, 2506-2553 (2008).
 25. Wei, H., Lee, T. Y., Miao, W., Fortenberry, R., Magers, D. H., Hait, S., Guymon, A. C., Jonsson, S. E. & Hoyle, C. E. Characterization and Photopolymerization of Divinyl Fumarate. *Macromolecules* **40**, 6172-6180 (2007).
 24. Miao, W., Cole, I. S., Neufeld, A. K. & Furman, S. Pitting Corrosion of Zn and Zn-Al Coated Steels in pH 2 to 12 NaCl Solutions. *J. Electrochem. Soc.* **154**, C7-C15 (2007).
 23. Rosado, D. J., Jr., Miao, W., Sun, Q. & Deng, Y. Electrochemistry and Electrogenerated Chemiluminescence of All-trans Conjugated Polymer Poly[distyrylbenzene-*b*-(ethylene Oxide)]s. *J. Phys. Chem. B* **110**, 15719-15723 (2006).
 22. Ge, C., Miao, W., Ji, M. & Gu, N. Glutaraldehyde-Modified Electrode for Nonlabeling Voltammetric Detection of p16^{INK4A} Gene. *Anal. Bioanal. Chem.* **383**, 651-659 (2005).
 21. Miao, W. & Bard, A. J. Electrogenerated Chemiluminescence. 80. C-Reactive Protein Determination at High Amplification with $[\text{Ru}(\text{bpy})_3]^{2+}$ -Containing Microspheres. *Anal. Chem.* **76**, 7109-7113 (2004).
 20. Miao, W. & Bard, A. J. Electrogenerated Chemiluminescence. 77. DNA Hybridization Detection at High Amplification with $[\text{Ru}(\text{bpy})_3]^{2+}$ -Containing Microspheres. *Anal. Chem.* **76**, 5379-5386 (2004).
 19. Miao, W. & Bard, A. J. Electrogenerated Chemiluminescence. 72. Determination of Immobilized DNA and C-Reactive Protein on Au(111) Electrodes Using Tris(2,2'-bipyridyl)ruthenium(II) Labels. *Anal. Chem.* **75**, 5825-5834 (2003).
 18. Miao, W., Choi, J.-P. & Bard, A. J. Electrogenerated Chemiluminescence 69: The Tris(2,2'-bipyridine)ruthenium(II), $(\text{Ru}(\text{bpy})_3)^{2+}$ /Tri-*n*-propylamine (TPrA) System Revisited - A New Route Involving TPrA⁺ Cation Radicals. *J. Am. Chem. Soc.* **124**, 14478-14485 (2002).
 17. Miao, W., Ding, Z. & Bard, A. J. Solution Viscosity Effects on the Heterogeneous Electron Transfer Kinetics of Ferrocenemethanol in Dimethyl Sulfoxide-Water Mixtures. *J. Phys. Chem. B* **106**, 1392-1398 (2002).

16. Keyes, T. E., Forster, R. J., Bond, A. M. & Miao, W. Electron Self-Exchange in the Solid-State: Cocrystals of Hydroquinone and Bipyridyl Triazole. *J. Am. Chem. Soc.* **123**, 2877-2884 (2001).
15. Bond, A. M., Miao, W. & Raston, C. L. Mercury(II) Immobilized on Carbon Nanotubes: Synthesis, Characterization, and Redox Properties. *Langmuir* **16**, 6004-6012 (2000).
14. Bond, A. M., Feldberg, S. W., Miao, W., Oldham, K. B. & Raston, C. L. Modeling of Solid-state, Dissolution and Solution-phase Reactions at Adhered Solid-electrode-Solvent (Electrolyte) Interfaces: Electrochemistry of Microcrystals of C₆₀ Adhered to an Electrode in Contact with Dichloromethane (Bu₄NClO₄). *J. Electroanal. Chem.* **501**, 22-32 (2001).
13. Bond, A. M., Miao, W. & Raston, C. L. Identification of Processes that Occur after Reduction and Dissolution of C₆₀ Adhered to Gold, Glassy Carbon, and Platinum Electrodes Placed in Acetonitrile (Electrolyte) Solution. *J. Phys. Chem. B* **104**, 2320-2329 (2000).
12. Bond, A. M., Miao, W., Raston, C. L. & Sandoval, C. A. Electrochemical, EPR, and Magnetic Studies on Microcrystals of the [C₆₀-(*p*-Benzyl-calix[5]arene)₂][•]8Toluene and Its One-Electron-Reduced Encapsulation Complex. *J. Phys. Chem. B* **104**, 8129-8137 (2000).
11. Bond, A. M., Miao, W., Raston, C. L., Ness, T. J., Barnes, M. J. & Atwood, J. L. Electrochemical and Structural Studies on Microcrystals of the (C₆₀)_x(CTV) Inclusion Complexes (x = 1, 1.5; CTV = cyclotrimeratrylene). *J. Phys. Chem. B* **105**, 1687-1695 (2001).
10. Bond, A. M., Miao, W., Smith, T. D. & Jamis, J. Voltammetric Reduction of Mercury(II), Silver(I), Lead(II) and Copper(II) Ions Adsorbed onto a New Form of Mesoporous Silica. *Anal. Chim. Acta* **396**, 203-213 (1999).
9. Suarez, M. F., Marken, F., Compton, R. G., Bond, A. M., Miao, W. & Raston, C. L. Evidence for Nucleation-Growth, Redistribution, and Dissolution Mechanisms during the Course of Redox Cycling Experiments on the C₆₀/NBu₄C₆₀ Solid-State Redox System: Voltammetric, SEM, and in Situ AFM Studies. *J. Phys. Chem. B* **103**, 5637-5644 (1999).
8. Cai, P., Miao, W., Mo, J. & Zhang, R. Additive Cyclic Square Wave Voltammetry for Coordination-Adsorptive Catalytic Irreversible Systems. *J. Instrum. Anal.* **14**, 33-38 (1995).
7. Mo, J., Miao, W., Cai, P. & Zhang, R. Additive Cyclic Square Wave Voltammetry for Coordination-Adsorption Catalytic Systems. *J. Instrum. Anal.* **14**, 1-6 (1995).
6. Miao, W., Mo, J., Cai, P. & Zhang, R. Additive Cyclic Square Wave Voltammetry for Complex Adsorptive Irreversible Systems. II. Systems Uncontrolled by the Complexation Rate. *J. Instrum. Anal.* **14**, 1-5 (1995).
5. Mo, J., Miao, W., Cai, P. & Zhang, R. Additive Cyclic Square Wave Voltammetry for Adsorptive-Complex Irreversible System. I. Control by the Rate of Complexing Reaction. *J. Instrum. Anal.* **12**, 16-20 (1993).
4. Mo, J., Miao, W., Cai, P. & Zhang, R. Additive Cyclic Square Wave Voltammetry for Coordination-Adsorptive Irreversible Systems. *Rock Mineral Anal.* **10**, 74-75 (1991).
3. Miao, W. & Hong, L. Determination of Miller Indexes of X-ray Diffraction Patterns with Computer. *Compt. Appl. Chem.* **7**, 44-8 (1990).
2. Miao, W. & Hu, X. Study and Application of Nonionic Surfactant-OP in Some Coordination Systems. *J. Nantong Teachers College (Nat. Sci. Sec.)* **5**, 30-38 (1989).
1. Miao, W. Is the Electronegativity of Group 0 Elements equal to 0? *Chem. Teach.* **4**, 42 (1980).

III. Proceedings of Conferences

55. Ge, C., McCurry, D., Parajuli, S. & Miao, W. Electrochemical, ECL, EPR, and SECM-ECL Studies of the 2-(Dibutylamino)ethanol (DBAE) Free and Cation Radicals. *The 13th International*

- Symposium on Electroanalytical Chemistry* (August 19-22, 2011, Changchun, China. Invited Keynote Lecture).
54. Lewis, N. A., Liu, F., Magnusen, T., Erves, T., Arca, J. F., Beckford, F. A., Venkatraman, R., Gonzalez, S. A., Li, L., Parajuli, S., Seeram, N., Liu, A., Jarrett, W., Miao, W. & Holder, A. A. Novel chemotherapeutic agents of vanadium(IV) with thiosemithiocarbazones and Schiff bases as ligands: Structural and in vitro studies. INOR-207 (American Chemical Society, 2011).
 53. Bridges, L., Parajuli, S., Lewis, N., Holder, A. & Miao, W. Electrochemical and Spectroscopic Studies of Bi- and Tetra-nuclear Ruthenium (II) Containing Complexes *Journal of the Mississippi Academy of Sciences, Vol. 56 (1): The 75th Annual Meeting of Mississippi Academy of Sciences*, 55 (Feb. 17-18, 2011, Hattiesburg, MS, USA).
 52. Lewis, N., Liu, F., Magnusen, T., Erves, T., Arcs, F., Beckford, F., Venkatraman, R., Sarrias, A., Li, L., Parajuli, S., Seeram, N., Liu, A., Jarret, W., Miao, W. & Holder, A. Novel Chemotherapeutic Agents of Vanadium (IV) with Thiosemithiocarbazones and Schiff Bases as Ligands: Structural Aspects and *In Vitro* Studies *Journal of the Mississippi Academy of Sciences, Vol. 56 (1): The 75th Annual Meeting of Mississippi Academy of Sciences*, 46 (Feb. 17-18, 2011, Hattiesburg, MS, USA).
 51. Manandhar, E., Seawell, W., Moffett, E., Parajuli, S., Holder, A. & Miao, W. Electrochemical and Electrogenenerated Chemiluminescent Studies of Ruthenium (II) Complex $[\text{Ru}(\text{pbt})_2(\text{dpp})](\text{PF}_6)_2$, *PITTCON'2011*, (440-35P) (March 13-18, 2011, Atlanta, GA, USA).
 50. Parajuli, S. & Miao, W. Determination of Trinitrotoluene by Electrogenenerated Chemiluminescence Quenching Method. *PITTCON'2011*, (440-38P) (March 13-18, 2011, Atlanta, GA, USA).
 49. Miao, W., Ge, W., Chen, T., Zhao, Y. & Zhang, T. Electrochemical Synthesis, Characterization and Cell-imaging of Glutathione-capped CdTe/CdS Core/Shell Quantum Dots. *PITTCON'2011-ACS Anal. Chem.* (615-39P) (March 13-18, 2011, Atlanta, GA, USA).
 48. Wang, S., Maestri, T. & Miao, W. A Paper Strip Based Immunosensing System for the Determination of C-Reactive Protein Using Electrogenenerated Chemiluminescence. *PITTCON'2011-ACS Anal. Chem.* (615-46P) (March 13-18, 2011, Atlanta, GA, USA).
 47. McCurry, D. & Miao, W. Determination of the 2-(Dibutylamino)ethanol Free Radical Potential in Acetonitrile/Benzene Solutions Using Electrogenenerated Chemiluminescence. *PITTCON'2011*, (1170-15P) (March 13-18, 2011, Atlanta, GA, USA).
 46. Miao, W. & Parajuli, S. Selective Determination of Triacetone Triperoxide Explosive Using Electrogenenerated Chemiluminescence. *PITTCON'2011*, (1670-2) (March 13-18, 2011, Atlanta, GA, USA).
 45. Manandhar, E., Seawell W., Moffett, E., Parajuli, S., Wang, S., Holder, A. A. & Miao, W. Electrochemical and Electrogenenerated Chemiluminescent Studies of a Ruthenium (II) Complex $[\text{Ru}(\text{pbt})_2(\text{dpp})](\text{PF}_6)_2$ *Journal of the Mississippi Academy of Sciences, Vol. 55 (1): The 74th Annual Meeting of Mississippi Academy of Sciences*, 69 (Feb. 11-12, 2010, Hattiesburg, MS, USA).
 44. Parajuli, S. & Miao, W. Selective Detection of Triacetone Triperoxide Using Electrogenenerated Chemiluminescence *Journal of the Mississippi Academy of Sciences, Vol. 55 (1): The 74th Annual Meeting of Mississippi Academy of Sciences*, 55 (Feb. 11-12, 2010, Hattiesburg, MS, USA).
 43. Maestri, T., Wang, S. & Miao, W. A New Electrogenenerated Chemiluminescent Immunosensing System for Detection of C-Reactive Protein *Journal of the Mississippi Academy of Sciences, Vol. 55 (1): The 74th Annual Meeting of Mississippi Academy of Sciences*, 53 (Feb. 11-12, 2010, Hattiesburg, MS, USA).
 42. Parajuli, S., Pittman, T. L., Thomson, B., Ge, C. & Miao, W. Sensitive Determination of Chemical Explosives Using Electrogenenerated Chemiluminescence. *The International Symposium on Nanoelectrochemistry and Spectroelectrochemistry—a Satellite Meeting of 60th Annual Meeting of International Society of Electrochemistry*, I13, Invited Talk (August 12-15, 2009, Xi'an, China).

41. Miao, W. ECL Determination of C Reactive Protein with Carboxyl CdSe/ZnS Core/Shell Quantum Dot. *The 9th Southern School on Material Science and Computational Chemistry*, Invited Talk (July 27-29, 2009, Jackson, MS, USA).
40. Harris, E., Wang, S. & Miao, W. Electrogenerated Chemiluminescence of Semiconductor Nanoparticles. *Journal of the Mississippi Academy of Sciences, Vol. 54 (1): The 73rd Annual Meeting of Mississippi Academy of Sciences*, 56 (Feb. 25-27, 2009, Olive Branch, MS, USA).
39. Parajuli, S. & Miao, W. Detection of Peroxide-Based Explosive Triacetone triperoxide (TATP) Using Electrogenerated Chemiluminescence. *Journal of the Mississippi Academy of Sciences, Vol. 54 (1): The 73rd Annual Meeting of Mississippi Academy of Sciences*, 55 (Feb. 25-27, 2009, Olive Branch, MS, USA).
38. Wang, S., Wallace, K. & Miao, W. Electrochemical and Electrogenerated Chemiluminescent Studies of Squaraines and Their Applications in Metal Ion Sensing. *Journal of the Mississippi Academy of Sciences, Vol. 54 (1): The 73rd Annual Meeting of Mississippi Academy of Sciences*, 50 (Feb. 25-27, 2009, Olive Branch, MS, USA).
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