
PATENTS and PUBLICATIONS**B. PUBLICATIONS:****III. Proceedings/Abstracts of Conferences**

107. Waite, Kumar P. & Miao, W. [Poster Board #900] Electrodeposition of Ni, Co, Fe, and Se over Carbon Cloth towards Electrocatalytic Hydrogen Evolution Reaction. *ACS Spring 2024 Meeting* (March 17-21, 2024, New Orleans, LA, USA).
106. Hosen, N. Mia, R. Miao, W. & Wallace, K. [Poster Board #1606] Design and Synthesis of Low Molecular Weight Electrogenerated Chemiluminescence Probes (LMEPs) for the Detection of Organophosphates. *ACS Spring 2024 Meeting* (March 17-21, 2024, New Orleans, LA, USA).
105. Guo, S. Mehrehjedy, A. Eaton, J. Tang, K. Turner, C. Sanders, A. He, X. & Miao, W. Real-time selective detection of neurotransmitter molecules by OECT with imprinted polymer modified gate. *ACS Spring 2024 Meeting* (March 17-21, 2024, New Orleans, LA, USA).
104. Kumar, P. & Miao, W. Surface Sulfurization of One-step Electrodeposition of Transition Metals (Ni, Co, and Fe) for Electrocatalytic Water Splitting. *ACS Spring 2024 Meeting* (March 17-21, 2024, New Orleans, LA, USA).
103. Waite, J., Kumar, P. & Miao, W. Electrodeposition of Ni, Co, Fe, and Se over Carbon Cloth towards Electrocatalytic Hydrogen Evolution Reaction. Mississippi IDEA/EPSCoR Conference 2023, 44 (July 27, 2023, Hattiesburg, MS, USA).
102. Northington, K., Motchaalangaram, J. & Miao, W. Aggregation Induced Electrogenerated Chemiluminescence Studies of 9,10-Diarylanthracene Derivatives. Mississippi IDEA/EPSCoR Conference 2023, 52 (July 27, 2023, Hattiesburg, MS, USA).
101. Kumar, P. & Miao, W. Surface Sulfurization of Electrodeposited Transition Metal toward Electrocatalytic Water Splitting Applications. Mississippi IDEA/EPSCoR Conference 2023, Oral Session 4-6, Chemistry (July 27, 2023, Hattiesburg, MS, USA).
100. Kumar, P. & Miao, W. One-Step Electrodeposition of Transition Metals (Ni, Co, and Fe) for Electrocatalytic Oxygen Evolution Reaction, ACS Spring 2023 Meeting, (March 26-30, 2023, Indianapolis, IN, USA), p 3825427-ENFL.
99. Hosen, N., Miao, W. & Wallace, K. J. The Synthesis of a Coumarin-Enamine Chemodosimeter for the Detection of Diisopropylfluorophosphate, a Nerve Agent Mimic. Mississippi IDEA/EPSCoR Conference 2023, Oral Session 4-6, Chemistry (July 27, 2023, Hattiesburg, MS, USA).
98. Aumick, K. Motchaalangaram, J. & Miao, W. Donor Driven Aggregation Induced Electrogenerated Chemiluminescence Mechanism of 9,10-Diphenylanthracene Derivatives, ACS Spring 2023 Meeting (March 26-30, 2023, Indianapolis, IN, USA), p 3815007-ANYL.
97. Hosen, N., Mia, R., Miao, W. & Wallace, K. J. An ECL Generated Coumarin-enamine Chemodosimeter for Diisopropylfluorophosphate, a Nerve Agent Mimic. 2022 North American Supramolecular Chemistry Meeting (NASC 2022) (December 18-20, 2022, New Orleans, LA, USA), NASC 2022 Book of abstracts, poster Abstracts P12.
96. Issifu, A. & Miao, W. Analysis of Proteins in Ramie Leaf Using Matrix-assisted Laser Desorption/Ionization Mass Spectrometry (MALDI-MS). (a) 2022 Susan A. Siltance

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- Graduate Student Research Symposium (April 14, 2022, Hattiesburg, MS, USA). (b) 2022 Lester Andrew Graduate Research Symposium (May 18-22, 2022, Mississippi State University, Starkville, MS, USA).
95. Motchaalangaram, J. & Miao, W. Aggregation Induced Electrochemiluminescence from Donor-Acceptor based Coumarin-Benzimidazole Derivatives. 2022 Susan A. Siltance Graduate Student Research Symposium (April 14, 2022, Hattiesburg, MS, USA).
 94. Motchaalangaram, J., Aumick, K., Miao, W. Deciphering Aggregation Induced Electrogenerated Chemiluminescence Mechanism of 9,10-Diphenylanthracene Derivatives, SERMACS 2022 (Oct. 19-22, 2022, San Juan, Puerto Rico, USA), p #14, 3789132.
 93. Mia, R., Biswakarma, A., Forenczek, F. R., Miao, W. & Wallace, K. J. An ECL Chemodosimeter for the Detection of DFP – a Sarin Simulant. The 16th International Symposium of Macrocyclic and Supramolecular Chemistry (ISMCS2022) (June 19-24, 2022, Eugene, OR, USA).
 92. Kumar, P., Dinsmore, F., Miao, W. Hydrogen Bubble Assisted One-Step Electrodeposition of Cu, Ni and P Towards Electrocatalytic Water Oxidation. 2022 Susan A. Siltance Graduate Student Research Symposium (April 14, 2022, Hattiesburg, MS, USA).
 91. Aumick, K., Motchaalangaram, J. & Miao, W. Deciphering Aggregation Induced Electrogenerated Chemiluminescence Mechanism of 9,10-Diphenylanthracene Derivatives. Mississippi IDeA Conference & Mississippi EPSCoR 2022 (July 28, 2022, Hattiesburg, MS, USA).
 90. Miao, W., Motchaalangaram, J., Biswakarma, A. & Wallace, K. J. Sensitive and Selective Detection of N,N-Dimethyltryptamine with Molecularly Imprinted Polymer Coupled with Electrogenerated Chemiluminescence. 240th ECS Meeting (October 10-14, 2021, Orlando, FL, USA), ECS Meeting Abstracts MA2021-02, 1600 (2021).
 89. Kumar, P. & Miao, W. Vanadium Copper Hydroxy Carbonate Hydrate Towards the Electrocatalytic Oxygen Evolution Reaction. 240th ECS Meeting (October 10-14, 2021, Orlando, FL, USA), ECS Meeting Abstracts MA2021-02, 1423 (2021).
 88. Miao, W. (Keynote Lecturer) Trace Detection of Explosives Based on Electrochemical, Chemiluminescent, and Electrogenerated Chemiluminescent Technique. International Workshop on Energy Materials (IWEM 2018), (Oct. 18-19, Istanbul, Turkey).
 87. Sridhar, A. S. & Miao, W. Photoelectrochemical Studies on Electrodeposited Cu₂O/WSe₂ Photocathodes for Solar Water Splitting. PITTCON'2018, 1340-16 (Feb 26-March 1, 2018, Orlando, FL, USA).
 86. Shanta, T. & Miao, W. Anodic Nanocatalysts for Formic Acid Fuel Cells: An Electrochemical Study. The 13th SINO-US Chemistry Professors Conference, (June 18-19, 2017, Nantong, Jiangsu, China).
 85. Miao, W. Direct EPR Evidence of Coreactant Intermediates of Electrogenerated Chemiluminescence. 2017 Symposium on Bioelectrochemical and Environmental Analysis/Electrochemical Techniques and Nanodevice Engineering (July 18-19, 2017, Lanzhou, China).
 84. Bastola, P. & Miao, W. Direct EPR Evidence of Cathodic ECL Coreactant Intermediates of Benzoyl Peroxide and Ammonium Persulfate. 231st ECS Meeting (May 29-June 1, 2017, New Orleans, LA, USA).

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83. Miao, W. A Highly Sensitive Electrogenerated Chemiluminescence-Based Immunoassay for Specific Detection of Zika Virus, The 1st Northwestern International Electrochemistry Symposium (June 16-19, 2016, Lanzhou, China).
 82. Shanta, T. & Miao, W. Influence of Nanostructured Carbon Supports on Nanocatalysts Towards Electrooxidation of Formic Acid for Direct Formic Acid Fuel Cells. 229th ECS Meeting (May 29-June 2, 2016, San Diego, CA, USA).
 81. Wusimanjiang, Y. & Miao, W. Effect of Multi-walled Carbon Nanotubes on the Electrogenerated Chemiluminescence of Quantum Dots. Journal of the Mississippi Academy of Sciences, Vol. 61 (1): The 80th Annual Meeting of Mississippi Academy of Sciences, O3.31, 86 (February 18-19, 2016, Hattiesburg, MS, USA).
 80. Shanta, T. & Miao, W. Study of Ternary Nanocatalysts for Direct Formic Acid Fuel Cells. Journal of the Mississippi Academy of Sciences, Vol. 61 (1): The 80th Annual Meeting of Mississippi Academy of Sciences, O3.27, 85 (February 18-19, 2016, Hattiesburg, MS, USA).
 79. Siddarth, S. A. & Miao, W. Cobalt Polyoxometalates as co-catalysis for Solar Hydrogen Evolution with Copper Selenide Photocathodes. Journal of the Mississippi Academy of Sciences, Vol. 61 (1): The 80th Annual Meeting of Mississippi Academy of Sciences, O3.28, 85 (February 18-19, 2016, Hattiesburg, MS, USA).
 78. Bastola, P. & Miao, W. Electrogenerated Chemiluminescence (ECL) of Sulfonated 9,10-Diphenylanthracene and Rubrene in Aqueous with Nitrate Enhancing Agent. Journal of the Mississippi Academy of Sciences, Vol. 61 (1): The 80th Annual Meeting of Mississippi Academy of Sciences, O3.29, 85 (February 18-19, 2016, Hattiesburg, MS, USA).
 77. Wusimanjiang, Y., Zou, G. & Miao, W. Fluorescent and ECL Studies of Energy and Electron Transfer between CdSe and CdTe Quantum Dots. 15th Southern School on Computational and Materials Science Conference (SSCC&MS), (July 23-24, 2015, Jackson, MS, USA, Invited Talk).
 76. Shanta, T. & Miao, W. Investigation of Palladium Based Nanocatalysts for Direct Formic Acid Fuel Cells. PITTCON'2015, 1200-11P (March 8-12, 2015, New Orleans, LA, USA).
 75. Siddarth, A. S. & Miao, W. Photoelectrochemical Studies on Earth Abundant Pentanickel Polyoxometalates as Co-Catalysts for Water Oxidation. PITTCON'2015, 1370-4 (March 8-12, 2015, New Orleans, LA, USA).
 74. Wusimanjiang, Y. & Miao, W. Electrochemical Investigation of Peptide Bond Formation on Electrode Surface. PITTCON'2015, 2430-8 (March 8-12, 2015, New Orleans, LA, USA).
 73. Bastola, P. & Miao, W. Electrochemistry and Electrogenerated Chemiluminescence of Sulfonated 9,10-Diphenylanthracene and Rubrene in Aqueous Media. PITTCON'2015, 1570-12P (March 8-12, 2015, New Orleans, LA, USA).
 72. Wusimanjiang, Y. & Miao, W. Fluorescence and ECL Studies of Energy and Electron Transfer Between CdSe and CdTe Quantum Dots. ECL 2014: International Meeting on Electrogenerated Chemiluminescence, SU O2 (September 7-10, 2014, 2014, Bertinoro, Italy).
 71. Wusimanjiang, Y. & Miao, W. Electrogenerated Chemiluminescent Studies of Charge Transfer Between CdSe/ZnS and CdTe/CdS Quantum Dots and Their Applications Towards the Development of highly Sensitive ECL Immunosensors. Journal of the Mississippi Academy of Sciences, Vol. 59 (1): The 78th Annual Meeting of Mississippi Academy of Sciences, 72 (March 6-7, 2014, Hattiesburg, MS, USA).

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70. Shanta, T. & Miao, W. Electrochemical Study of Palladium Based Nanocatalysts for Direct Formic Acid Fuel Cells. *Journal of the Mississippi Academy of Sciences*, Vol. 59 (1): The 78th Annual Meeting of Mississippi Academy of Sciences, 72 (March 6-7, 2014, Hattiesburg, MS, USA).
 69. Siddarth, S. A. & Miao, W. Photoelectrochemical Studies on Layered Organic-Inorganic Hybrid Perovskite Photoelectrodes for Water Splitting. *Journal of the Mississippi Academy of Sciences*, Vol. 59 (1): The 78th Annual Meeting of Mississippi Academy of Sciences, 70 (March 6-7, 2014, Hattiesburg, MS, USA).
 68. Bastola, P. & Miao, W. Electrogenerated Chemiluminescence (ECL) of Unmixed and Mixed Systems of 9,10-Diphenylanthracene, Rubrene, and Tris (2,2-bipyridine) Ruthenium(II) dichloride Using Benzoyl Peroxide as the ECL Coreactant. *Journal of the Mississippi Academy of Sciences*, Vol. 59 (1): The 78th Annual Meeting of Mississippi Academy of Sciences, 7x (March 6-7, 2014, Hattiesburg, MS, USA).
 67. Wusimanjiang, Y. & Miao, W. Quenching and Enhancement of Fluorescence and Electrogenerated Chemiluminescence When CdSe/ZnS Mixed With CdTe/CdS Quantum Dots. Abstracts, 65th Southeast Regional Meeting of the American Chemical Society, SERM-678 (November 13-16, 2013, Atlanta, GA, USA).
 66. Wusimanjiang, Y. & Miao, W. Fluorescent and Electrogenerated Chemiluminescent Studies of Energy Transfer Between CdSe/ZnS and CdTe/Cds Quantum Dots in Aqueous Media. Abstracts of Papers, 245th ACS National Meeting & Exposition, ANYL-203 (April 7-11, 2013, New Orleans, LA, USA).
 65. Reed, A. D. & Miao, W. Synthesis and Electrogenerated Chemiluminescence of Water Soluble Silicon Quantum Dots. PITTCON'2013, 2740-8P (March 17-21, 2013, Philadelphia, PA, USA).
 64. Wusimanjiang, Y., Manandhar, E., Wallace, K. & Miao, W. Meta-Bisclick: Electrochemistry, Electrogenerated Chemiluminescence, and Its Interactions with Zn²⁺ Ions. *Journal of the Mississippi Academy of Sciences*, Vol. 58 (1): The 77th Annual Meeting of Mississippi Academy of Sciences, 73 (Feb. 21-22, 2013, Hattiesburg, MS, USA).
 63. Johnson, K., Mahesha, H., Wusimanjiang, Y., Stoulig III, P. & Miao, W. Electrogenerated Chemiluminescence of Water Soluble Silicon Quantum Dots. *Journal of the Mississippi Academy of Sciences*, Vol. 58 (1): The 77th Annual Meeting of Mississippi Academy of Sciences, 74 (Feb. 21-22, 2013, Hattiesburg, MS, USA).
 62. Bastola, P., Manandhar, E., Cragg, P., Wallace, K. & Miao, W. A Self-Assembly Based Fluorescent Rationmetric Sensors for Fe³⁺ Ion. *Journal of the Mississippi Academy of Sciences*, Vol. 58 (1): The 77th Annual Meeting of Mississippi Academy of Sciences, 74 (Feb. 21-22, 2013, Hattiesburg, MS, USA).
 61. Zou, G. & Miao, W. Electrode Surface Charge Effect on the Electron-Transfer Behavior of Redox Species. *Journal of the Mississippi Academy of Sciences*, Vol. 57 (1): The 76th Annual Meeting of Mississippi Academy of Sciences, 81 (Feb. 23-24, 2012, Hattiesburg, MS, USA).
 60. Wang, A., Li, L., Chu, A. J. & Miao, W. An Investigation Into the Interactions Between Polycations and Factor VII and Factor VIIA Using a Quartz Crystal Microbalance. *Journal of the Mississippi Academy of Sciences*, Vol. 57 (1): The 76th Annual Meeting of Mississippi Academy of Sciences, 80 (Feb. 23-24, 2012, Hattiesburg, MS, USA).

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59. Miao, W. & Zou, G. Size Dependent Electrogenerated Chemiluminescence from Dual-Stabilizer-Capped CdTe Nanocrystals. PITTCON'2012, 2020-4 (March 11-15, 2012, Orlando, FL, USA).
 58. Miao, W., Hanna, R., Shows, R. & Chu, A. An Investigation into the Interactions Between Polycations and Tissue Factor Using a Quartz Crystal Microbalance. PITTCON'2012, 2400-5P (March 11-15, 2012, Orlando, FL, USA).
 57. Miao, W. Biosensors based on Electrogenerated Chemoluminescence. Journal of the Mississippi Academy of Sciences, Vol. 57 (1): The 76th Annual Meeting of Mississippi Academy of Sciences, 64 (Feb. 23-24, 2012, Hattiesburg, MS, USA).
 56. Chu, A. & Miao, W. Polycations as Novel Anticoagulants Block Tissue Factor-Dependent FVII Activation: A Possible Mechanism. Journal of the Mississippi Academy of Sciences, Vol. 57 (1): The 76th Annual Meeting of Mississippi Academy of Sciences, 60 (Feb. 23-24, 2012, Hattiesburg, MS, USA).
 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 thiosemithiocarbazonates 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 Thiosemithiocarbazonates 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 Electrogenerated Chemiluminescent Studies of Ruthenium (II) Complex [Ru(pbt)₂(dpp)](PF₆)₂, PITTCON'2011, (440-35P) (March 13-18, 2011, Atlanta, GA, USA).
 50. Parajuli, S. & Miao, W. Determination of Trinitrotoluene by Electrogenerated 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 Electrogenerated Chemiluminescence. PITTCON'2011-ACS Anal. Chem. (615-46P) (March 13-18, 2011, Atlanta, GA, USA).

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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 [Ru(pbt)2(dpp)](PF6)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. Electrogenenerated 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 Electrogenenerated 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 Electrogenenerated 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).
 37. Wang, S., Harris, E. & Miao, W. Electrogenenerated Chemiluminescent (ECL) Studies of Carboxyl Core/Shell Quantum Dot CdSe/ZnS and Its Applications as ECL Labels in Immunoassays. Abstracts, 60th Southeast Regional Meeting of the American Chemical Society, SERM-559, Invited Talk (November 12-15, 2008, Nashville, TN, USA).
 36. Wang, S., Harris, E. & Miao, W. Electrogenenerated Chemiluminescent (ECL) Studies of Carboxyl Core/Shell Quantum Dot CdSe/ZnS and Its Applications as ECL Labels in

- Immunoassays. International Symposium on Stimuli-Responsive Materials, Poster-133 (October 28-29, 2008, Hattiesburg, MS, USA).
35. Davis, M., Seymour, L., Rambaran, V. H., Ward, W., Clark, E., Moody, L., Parajuli, S., VanDerveer, D. G., Jarrett, W. L., Miao, W. & Holder, A. A. Use of ^{19}F NMR in Studying DNA Interactions with Ruthenium(II) Complexes. Abstracts of Papers, 235th ACS National Meeting, INOR-615 (April 6-10, 2008, New Orleans, LA, USA).
 34. Davis, M., Seymour, L., Rambaran, V. H., Ward, W., Clark, E., Moody, L., VanDerveer, D. G., Parajuli, S., Jarrett, W. L., Miao, W. & Holder, A. A. Synthesis and Characterization of Some Fluorine-containing Complexes of Ruthenium(II): Use of ^{19}F NMR in Studying DNA Interactions. Abstracts of Papers, 235th ACS National Meeting, FLUO-019 (April 6-10, 2008, New Orleans, LA, USA).
 33. Miao, W., Milam, J., Wang, S., Rambaran, V. H., Clark, E., Ward, W., Seymour, L. & Holder, A. A. Electrochemical and Electrogenerated Chemiluminescent Studies of $[(\text{phen})_2\text{Ru}(\text{dpp})_2\text{RhCl}_2]^{5+}$ and Its Interactions with DNA. PITTCON'08, 1200-16P (March 2-7, 2008, New Orleans, LA, USA).
 32. Miao, W. & Wang, S. Towards Multiplexed Electrogenerated Chemiluminescent (ECL) Detection. PITTCON'08, 130-3 (March 2-7, 2008, New Orleans, LA, USA).
 31. Moody, L., Davis, M., Rambaran, V. H., Seymour, L., Ward, W., Clark, E., vanDerveer, E., Parajuli, S., Jarrett, W., Miao, W. & Holder, A. A. Synthesis and Characterization of Some Fluorine-Containing Complexes of Ruthenium(II): Use of ^{19}F NMR in Studying DNA Interactions. Journal of the Mississippi Academy of Sciences, Vol. 53 (1): The 72nd Annual Meeting of Mississippi Academy of Sciences, 51 (Feb. 20-22, 2008, Olive Branch, MS, USA).
 30. Pittman, T. L. & Miao, W. Preparation and Characterization of Tris(2,2'-bipyridyl)ruthenium (II)-Loaded Microcapsules as Electrogenerated Chemiluminescent Labels for Biomolecules Detection. Journal of the Mississippi Academy of Sciences, Vol. 53 (1): The 72nd Annual Meeting of Mississippi Academy of Sciences, 49 (Feb. 20-22, 2008, Olive Branch, MS, USA).
 29. Parajuli, S. & Miao, W. Detection of Peroxide-Based Explosives Using Electrogenerated Chemiluminescence. Journal of the Mississippi Academy of Sciences, Vol. 53 (1): The 72nd Annual Meeting of Mississippi Academy of Sciences, 48 (Feb. 20-22, 2008, Olive Branch, MS, USA).
 28. Wang, S. & Miao, W. ECL Quenching Behavior of $\text{Ru}(\text{bpy})_3^{2+}/\text{TPrA}$ System by Cl^- at Au Electrode: Direct Evidence Obtained from EQCM. Journal of the Mississippi Academy of Sciences, Vol. 53 (1): The 72nd Annual Meeting of Mississippi Academy of Sciences, 46 (Feb. 20-22, 2008, Olive Branch, MS, USA).
 27. Wang, S., Neshkova, M. T. & Miao, W. Scanning Electrochemical Microscopic Studies of $\text{Cu}(\text{II})$ -Ion-Selective Membrane. International Symposium on Stimuli-Responsive Materials, 27-28 (October 31-31, 2007, Hattiesburg, MS, USA).
 26. Miao, W., Pittman, T. L. & Thomson, B. Ultrasensitive Detection of 2,4,6-trinitrotoluene (TNT) Using Electrogenerated Chemiluminescence. PITTCON'07, 790-15P (Feb. 25-March 2, 2007, Chicago, IL, USA).
 25. Pittman, T. L., Kolibal, L. G., Urban, M. W. & Miao, W. Synthesis, Characterization of Tris(2,2'-Bipyridyl)Ruthenium (II)-Loaded Microcapsules and Their Bio-Related Applications Based on Electrogenerated Chemiluminescent (ECL) Detection. Journal of the

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- Mississippi Academy of Sciences, Vol. 52 (1): The 71st Annual Meeting of Mississippi Academy of Sciences, 81 (Feb. 21-23, 2007, Mississippi State, MS, USA).
24. Wang, S., Neshkova, M. T. & Miao, W. Studies of Electrochemically Prepared Ion-Selective Membranes With SECM. *Journal of the Mississippi Academy of Sciences*, Vol. 52 (1): The 71st Annual Meeting of Mississippi Academy of Sciences, 79 (Feb. 21-23, 2007, Mississippi State, MS, USA).
 23. Parajuli, S., Harewood, G. R., Green, K.-A., Maragh, P. T., Dasgupta, T. P., Miao, W. & Holder, A. A. An Electrochemical Study of A Schiff Base Complex of Vanadium(V) and its Interactions With Calf Thymus DNA in DMSO--A Search For New Anti-Cancer Agent. *Journal of the Mississippi Academy of Sciences*, Vol. 52 (1): The 71st Annual Meeting of Mississippi Academy of Sciences, 78 (Feb. 21-23, 2007, Mississippi State, MS, USA).
 22. Thomson, B. & Miao, W. Ultrasensitive Detection of 2,4,6-trinitrotoluene (TNT) Using Electrogenerated Chemiluminescence. The 2006 Annual Biomedical Research Conference for Minority Students (ABRCMS), 59, O-16 (November 8-11, 2006, Anaheim, CA, USA).
 21. Pittman, T. L. & Miao, W. Detection of 2,4,6-trinitrotoluene (TNT) in Soil and Water Samples Using Electrogenerated Chemiluminescence (ECL). First Annual International Symposium on Stimuli-Responsive Materials, 24 (October 31, 2006, Hattiesburg, MS, USA).
 20. Forster, R. J., Magers, D. H., Miao, W. & Hoyle, C. E. Relative Reactivity in a Series of Fumarates. The 15th Conference on Current Trends in Computational Chemistry, 54-55 (November 3-4, 2006, Jackson, MS, USA).
 19. Miao, W. & Pittman, T. L. Examination of Electron Transfer Through DNA Using Electrogenerated Chemiluminescence. PITTCON'06, 430-31P (March 12-17, 2006, Orlando, FL, USA).
 18. Miao, W., Rosado, D. J., Jr. & Sun, Q. Electrochemistry and Electrogenerated Chemiluminescence of All Trans Conjugated Polymer Poly[distyrylbenzene-b-(ethylene oxide)]s. PITTCON'06, 330-8 (March 12-17, 2006, Orlando, FL, USA).
 17. Wang, S. & Miao, W. Effect of Electrode Material and Electrolyte on the Electrogenerated Chemiluminescence Behavior of Ru(bpy)₃²⁺/TPrA System. *Journal of the Mississippi Academy of Sciences*, Vol. 51 (2): The 70th Annual Meeting of Mississippi Academy of Sciences, 167 (Feb. 23-24, 2006, Vicksburg, MS, USA).
 16. Miao, W. Electrogenerated Chemiluminescence of Benzophenone Using Benzoperoxide as the Coreactant. *Journal of the Mississippi Academy of Sciences*, Vol. 51 (1): The 70th Annual Meeting of Mississippi Academy of Sciences, 46 (Feb. 23-24, 2006, Vicksburg, MS, USA).
 15. Miao, W. Electrogenerated Chemiluminescence and Its Bio-related Applications. *Journal of the Mississippi Academy of Sciences*, Vol. 50 (1): The 69th Annual Meeting of Mississippi Academy of Sciences, 50 (Feb. 16-18, 2005, Oxford, MS, USA).
 14. Choi, J.-P., Miao, W. & Bard, A. J. Electrogenerated Chemiluminescence (ECL) of Tris(2,2'-Bipyridine)Ruthenium(II) Complexes With Various Amine Coreactants. The 58th Southwest Regional ACS Meeting, P354 (November 3-6, 2002, Austin, TX, USA).
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