

JACOB XIN WEI

Professor of Chemistry, Texas Southern University
3100 Cleburne St., Houston, TX 77004
Phone: (713) 313-1911; Fax: (713) 313-7824
Email address: wei_xi@tsu.edu

A. PROFESSIONAL PREPARATION

Nanjing University	Materials Chemistry	B.S., 1993
Nanjing University	Polymer Chemistry and Physics	Ph.D., 1998

B. PROFESSIONAL EXPERIENCE

09/2014-Present	Professor of Chemistry, Texas Southern University
09/2008-08/2014	Associate Professor of Chemistry, Texas Southern University
09/2002-08/2008	Assistant Professor of Chemistry, Texas Southern University
07/2000-08/2002	Postdoctoral Fellow, Electroanalytical Chemistry, U. of Texas at San Antonio
01/1999-06/2000	Postdoctoral Fellow, Colloid and Surface Chemistry, University of Oklahoma
07/1998-12/1999	Postdoctoral Fellow, Nanocomposites, Nanjing U. of Science & Technology

C. SELECT JOURNAL PUBLICATIONS

- Naga V. Naidu, Dadi Arman, Yuanjian Deng, and Xin Wei, "Preparation and Characterization of 4-Amino-2-anilinopyridine and Its Chlorodiruthenium(III,II) Complex", *Journal of Coordination Chemistry*, **67**, 3006 (2014).
- Jing Fang, Xin Wei, John B. Sapp, and Yuanjian Deng, "Novel Platinum(II) Complexes Containing Diaminocyclohexane and Thiourea Derivative Ligands: Synthesis and X-Ray Crystal Structure of (Trans-1,2-diaminocyclohexane)dithioureaplatinum(II) Nitrate Monohydrate", *Inorganic Chimica Acta*, **411**, 5, (2014).
- Xiaomei Bian, Su Liang, Jyothy John, Cheng-Hui Hsiao, Xin Wei, Dong Liang, and Huan Xie, "Development of PLGA-Based Itraconazole Injectable Nanospheres for Sustained Release", *International Journal of Nanomedicine*, **8**, 4521 (2013).
- Paul Clemens, Xin Wei, Bobby L. Wilson, and Renard L. Thomas, "Anatase Titanium Dioxide Coated Single Wall Carbon Nanotubes Manufactured by Sonochemical-Hydrothermal Technique", *Open Journal of Composite Materials*, **3**, 21 (2013) (Cover Article)
- Isis E. Mejias Carpio, Catherine M. Santos, Xin Wei, and Debora F. Rodrigues, "Toxicity of a Polymer-Graphene Oxide Composite against Bacterial Planktonic Cells, Biofilms, and Mammalian Cells", *Nanoscale*, **4**, 4746 (2012).
- Jian You, Ruping Shao, Xin Wei, Sanjay Gupta, and Chun Li, "Near-Infrared Light Triggers Release of Paclitaxel from Biodegradable Microspheres: Photothermal Effect and Enhanced Antitumor Activity", *Small*, **6**, 1022 (2010).
- Merlyn X. Pulikkathara, Oleksandr V. Kuznetsov, Ivana R. G. Peralta, Xin Wei, and Valery N. Khabashesku, "Medium Density Polyethylene Composites with Functionalized Carbon Nanotubes", *Nanotechnology*, **20**, 195602 (2009).
- Hassan Mahfuz, Mohammad Hasan, Vinod Dhanak, Graham Beamson, Justin Stewart, Vijaya Rangari, Xin Wei, Valery Khabashesku and Shaik Jeelani, "Reinforcement of Nylon 6 with Functionalized Silica Nanoparticles for Enhanced Tensile Strength and Modulus", *Nanotechnology*, **19**, 445702 (2008).
- Minh Nguyen, Tuan Phan, Eric Van Caemelbecke, Xin Wei, John L. Bear, and Karl M. Kadish. "Synthesis and Characterization of (3,1) Ru₂(F₃ap)₄(NCS) and (3,1) Ru₂(F₃ap)₃(F₂Oap)(NCS)

Where F3ap Is the 2-(2,4,6-Trifluoroanilino)pyridinate Anion”, *Inorganic Chemistry*, **47**, 4392 (2008).

- Jianxin Lin, Guangyi Lu, Lee M. Daniels, Xin Wei, John B. Sapp, and Yuanjian Deng. “Synthesis and Characterization of Platinum(II) Complexes with 2-Imidazolidinethione. X-ray Crystal Structure of Tetra(2-imidazolidinethione-S) Platinum(II) Iodide Dimethylsulfoxide Solvate Monohydrate”, *Journal of Coordination Chemistry*, **61**, 2457 (2008).
- Xin Wei, Yuanjian Deng, Renard L. Thomas, and Bobby L. Wilson. “Instantaneous Electrodeposition of Metal Nanostructures on Carbon Nanotubes”, *International Patent Application*, PCT/US07/88843 (2007).
- Yetunde E. Sorunmu, Mindy Nguyen, John B. Sapp, Waldemar Gorski, Tuan D. Phan, and Xin Wei. “Study of Factors Affecting Molecular Behaviors in Phenothiazine-Mediated Biosensing by Electrochemical and Spectroscopic Methods”, *Electroanalysis*, **18**, 2375 (2006).
- Kun Tao, Shuying Yang, Jaime C. Grunlan, Yeon-Seok Kim, Bachlien Dang, Yuanjian Deng, Renard L. Thomas, Bobby L. Wilson, and Xin Wei. “Effects of Carbon Nanotube Fillers on the Curing Processes of Epoxy Resin-Based Composites”, *Journal of Applied Polymer Science*, **102**, 5248 (2006).
- Jaime C. Grunlan, Yeon-Seok Kim, Saeed Ziaee, Xin Wei, Beckry Abdel-Magid, and Kun Tao. “Thermal and Mechanical Behavior of Carbon Nanotube-Filled Latex”, *Macromolecular Materials and Engineering*, **291**, 1035 (2006). (Cover Article)
- Xin Wei, Maogen Zhang, and Waldemar Gorski. “Coupling the Lactate Oxidase to Electrodes by Ionotropic Gelation of Biopolymer”, *Analytical Chemistry*, **75**(9), 2060 (2003).
- Xin Wei, Andrew D. W. Carswell, Walter Alvarez, and Brian P. Grady. “X-Ray Photoelectron Spectroscopic Studies of Hydrophilic Surfaces Modified Via Admicellar Polymerization”, *Journal of Colloid and Interface Science*, **264**, 296 (2003).
- Andrew D. W. Carswell, Aaron M. Lowe, Xin Wei, and Brian P. Grady. “CMC Determination in the Presence of Surfactant-Adsorbing Inorganic Particulates”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **212**, 147 (2003).
- Xin Wei, Juan Cruz, and Waldemar Gorski. “Integration of Enzymes and Electrodes: Spectroscopic and Electrochemical Studies of Chitosan-Enzyme Films”, *Analytical Chemistry*, **74**(19), 5039 (2002).
- Xin Wei, Yan Ying, and Xuehai Yu. “A Novel Synthetic Strategy to Aromatic-Diisocyanate-Based Waterborne Polyurethanes”, *Journal of Applied Polymer Science*, **70**(8), 1621 (1998).
- Xin Wei, Quan He, and Xuehai Yu. “Synthesis and Properties of Polyoxyethylated Amine Polyurethane Ionomers”, *Journal of Applied Polymer Science*, **67**(13), 2179 (1998).
- Xin Wei, Bo Jin, and Xuehai Yu. “Hot-Stage Wide-Angle X-Ray Diffraction Studies of the Morphology of a Polyurethane Ionomer”, *Polymer Bulletin*, **39**(6), 729 (1997).
- Xin Wei, and Xuehai Yu. “Synthesis and Properties of Sulfonated Polyurethane Ionomers with Anions in the Polyether Soft Segments”, *Journal of Polymer Science, Part B: Polymer Physics*, **35**(2), 225 (1997).

D. SYNERGISTIC ACTIVITIES

- 2008** Filed an international patent application in the area of nanotechnology and successfully licensed it to NanoRidge, Inc. for further product development and commercialization
- 2007** Development of a new senior-level chemistry course: Polymer Chemistry
- 2006** Faculty advisor in the summer outreach program sponsored by AFRL’s Minority Leaders Program for minority science teachers at high schools
- 2006** Faculty advisor in the Qualified Scientist Outreach Program sponsored by NASA’s University Research Center for minority students at Barbara Jordan High School

E. Research Support

- Fabrication and Characterization of Advanced Nanocomposite Materials (PI: Dr. Bobby L. Wilson, Co-PIs: Drs. Xin Wei and Renard L. Thomas, Air Force Research Laboratory/Universal Technology Corporation/Clarkson Aerospace – Minority Leaders Program, 2005-2013, Total: \$1,250,000 approx.).
- Center of Research on Complex Networks, Subproject II: Urban Transportation Environmental Networks (Center Director/PI: Dr. Wei Li, Subproject II Co-PI: Lei Yu, Subproject Investigators: Xin Wei, Fengxiang Qiao, and Yi Qi, NSF-CREST, 2011-2016, Subproject Total: \$ 1,250,000 approx.).
- MRI Consortium: Acquisition of a Small Angle X-ray Scattering System for Materials Characterization (PI: Dr. Ramanan Krishnamoorti, Co-PIs: Drs. Matteo Pasquali, Gila E. Stein, Xin Wei, and Michael Wang, NSF-MRI Program, 2010-2011, Total: \$412,772).
- Biosensor and Biomarker Technology Core Facility (Subproject Director: Mahmoud A. Saleh, Co-Director: Xin Wei, NIH/NCRR-RCMI Program, 2004-2010, Subproject Total: \$1,750,000 approx.).
- Development of Advanced Electrochemical Biosensors (PI: Xin Wei, NASA/TSGC-New Investigations Program, 2004-2006, Total: \$10,000).
- Development of Glucose Biosensor Electrodes (PI: Xin Wei, NASA/Wyle Laboratories, 2004-2005, Total: \$2,750).
- TSU Bridge Grant (PI: Xin Wei, Texas Southern University, 2004 Summer, Total: \$5,000).