

## Jianjun Wei, PHD

Associate Professor in Nanoscience  
Joint School of Nanoscience and Nanoengineering (JSNN)  
The University of North Carolina at Greensboro (UNCG)  
2907 East Gate City Blvd, Room 208J, Greensboro, NC 27401  
Tel: (336) 285-2859, Fax: (336) 500-0115

E-mail: [j\\_wei@uncg.edu](mailto:j_wei@uncg.edu), Web: <https://sites.google.com/a/uncg.edu/wei-s-group-jsnn/>

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### EDUCATION

2005 - 2005 Postdoctoral Research Associate in Chemistry, University of Pittsburgh, PA, USA  
2000 - 2004 Ph.D., Chemistry, University of Pittsburgh, Pittsburgh, PA, USA  
1992 - 1995 M.S., Applied Chemistry  
East China University of Science & Technology (ECUST), Shanghai, China  
1988 - 1992 B.S., Applied Chemistry  
East China University of Chemical Technologies, Shanghai, China

### APPOINTMENT

9.2013-Present Associate Professor, the Department of Nanoscience, Joint School of Nanoscience and Nanoengineering (JSNN), UNC Greensboro, NC  
8.2014-Present Adjunct Professor, the Department of Nanoengineering, Joint School of Nanoscience and Nanoengineering (JSNN), UNC Greensboro, NC  
1.2010-8. 2013 Principal Scientist, Biomedical and Energy Technology, CFD Research Corporation, Huntsville, AL  
1.2006-12. 2010 Senior Scientist/Research Scientist, Biomedical and Energy Technology  
CFD Research Corporation, Huntsville, AL  
9.2000-12.2004 Teaching & Research Assistant, Andrew Mellon Predoctoral Research Fellow in Chemistry, University of Pittsburgh, Pittsburgh, PA,  
8.1995-7.2000 Lecturer, Researcher. Department of Environmental Science and Engineering,  
Shanghai University, Shanghai, China

### HONORS & AWARDS

- 2016: UNCG Faculty First Scholarship Award
- 2013: NASA Technical Innovation Brief Award: LEW-18967-1
- 2008: The US DOD SBIR Achievement Award (DoD SBIR Phase II)
- 2003-2004: Andrew Mellon Predoctoral fellowship, University of Pittsburgh
- 2003: Travel Grant Award from Electrochemical Society for the 204th National Meeting, Orlando, FL
- 2002: Wallace Prize; Outstanding Poster Presentation, Dept. of Chemistry and Industrial Committee, University of Pittsburgh

### RESEARCH INTEREST

Advanced functional materials, nanostructures and nanomaterials, fundamental studies in electron transfer, nanoplasmonics, and applications in biosensors & bioelectronics, biomedicine, energy and environments by employing methods of materials synthesis, nanofabrication, electrochemistry, microscopy and spectroscopy, modeling and simulation.

**RESEARCH GRANT****After Joining JSNN/UNCG**

- 2015-2018 US NSF #1511194, \$306,001, “A Versatile Nano-Optofluidic Platform for Multiplexed Detection of Cardiac Biomarkers in Blood”, **PI**
- 2016-2019 US NIH/R15 award \$455,243, PI (Jia-Biology), Co-PIs (Chiu and Wei), “Novel Carbon Nanodots against Vascular Inflammation”, **Co-PI**.
- 2017-2018 Strategic Seed Grant Awards of UNCG, \$25,000, “New Upconversion Nanoparticles for Photodynamic Cancer Therapy” **Co-PI**
- 2016-2017 UNCG Research Award, \$5,000, “A bio-chip to monitor biomarkers in saliva for organ toxicity/failure”, **PI**
- 2014-2015 A chip-based nanoplasmonics biosensor for proteins, Gateway Research Park, Greensboro, NC, NIC seed fund, \$5000, **PI**

**Before Joining JSNN/UNCG (a total > \$4M, as PI: >\$1.4M)**

- 2012-2013: “Developing A Point-of-Care Electrochemical Detector for Reagent-free detection of Pathogens”, NASA/STTR Phase I, \$125,000, NNX12CG02P, **PI**
- 2012-2012 “Piezo-nanomaterials for Harvesting Radiative Energy for a High-Efficiency Portable Battery Charger/Storage Unit”, DoD SBIR Phase I, \$100,000, W911QY-12-P-0077, **PI**
- 2011-2012 “Carbon Nanotube-Piezoelectric Film for Harvesting Multiple Ambient Energy Sources”, DoD/Navy, SBIR Phase I, \$100,000, Contract: N68335-11-C-0496, **PI**
- 2010-2011 “A Nanofluidic Nanoplasmonic Platform for Multiplexing Detection of Cancer Biomarkers”, NIH/NCI SBIR: \$180,000; Contract: 1R43CA153899-01, **PI**
- 2010-2012 “Novel MicroPower Source for Insect Based Sensor and Communication.” DOD SBIR Phase II: \$780,000; Contract: W911NF-10-C-0055, **Co-PI**
- 2009-2012 “Nanoelectrokinetic, Label-free Sensor for Toxic Industrial Chemical Detection DOD SBIR Phase II: \$750,000, Contract: W31P4Q-09-C-0560, **Co-PI**
- 2009-2011 “An On-Chip Nano-plasmonics Based Urine Protein Assay Cartridge.” NASA, STTR Phase II, \$600,000; Contract: NNX09CB64C, **PI**
- 2009-2010 “A Piezoelectric Power Chip for Opportunistic Energy Harvesting on Submarines.” DoD/NAVY SBIR Phase I, \$100,000; Contract: N65538-10-M-0067, **PI**
- 2009-2009 “MicroPower Source for Insect Based Sensor and Communication Platforms.” DOD SBIR Phase I: \$70,000; Contract: W911NF-09-C-0068, **Co-PI**
- 2008-2009 “Near-Infrared Nanopolymer Agents for Imaging of Tumor Margins.” NIH/NCI SBIR Phase I: \$100,000; Contract: 1R43CA134039-01, **PI**
- 2008-2009 “An On-Chip Nano-plasmonics Based Urine Protein Assay Cartridge.” NASA, STTR Phase I, \$100,000; Contract: NNX08CCD36P, **PI**
- 2006-2009 “Nanocomposite Enzymatic Electrode in Bio-Battery Platform for Energy Conversion.” DOD Phase IIIA: \$1,040,000; Contract: W15P7T-06-CT203, **Co-PI (tech Lead)**

**PUBLICATIONS**

**Peer-reviewed Articles** \*Corresponding Authors, ([blue colored are students from my research group at JSNN](#), <sup>1</sup>equal contributors)

**Since joining JSNN/UNCG in 2013****Manuscripts under revision/review or submitted**

1. [Z. Zeng](#), [J. Wei](#),\* [Y. Liu](#), [W. Zhang](#), [T. Mabe](#), Magnetic response of cryptochrome 1 in electrochemistry and electron transfer, *Journal of Physical Chemistry C*. **2017**, submitted.

2. T. Mabe, Z. Zeng, J. Ryan, **J. Wei**,\* Nanostructure bimetallic thin film for surface plasmon resonance, **2017**, submitted.
3. A. Aboagye, Y. Liu, J. Ryan, **J. Wei**,\* L. Zhang,\* Hierarchical carbon electrode nanomaterial for high-performance supercapacitor with alkali aqueous electrolyte. *Materials Chemistry and Physics*. **2017**, under review.
4. Y. Liu, Z. Zeng, K. Allado, L. Zhang,\* **J. Wei**,\* Self-sustainable separator-free configuration for a metal-oxide film supercapacitor, **2017**, submitted.
5. P. Lu, H. Yue, Y. Xing\*, **J. Wei**\*, Z. Zeng, R. Li, W. Wu, Low-temperature simultaneous removal of NO<sub>x</sub> and Hg<sup>0</sup> over 1 over 2 Ce<sub>0.2</sub>Zr<sub>0.3</sub>Mn<sub>0.5</sub>O<sub>2</sub>/r-Al<sub>2</sub>O<sub>3</sub> catalyst in simulated flue gas, *Fuel*, **2017**, Submitted.
6. R. Chandran, H. Chevva, Z. Zeng, Y. Liu, W. Zhang, J. Wei, D. Lajeunesse, Solid State Synthesis of Silver Nanowires by Biopolymer Thin Films, **2017**, submitted.

Published/Accepted (2017: **10**; 2016: **5**)

7. Z. Zeng, T. Zhang, Y. Liu, W. Zhang, Z. Yin, Z. Ji, **J. Wei**,\* Magnetic Field Enhanced 4-electron Pathway of Well-aligned Co<sub>3</sub>O<sub>4</sub>/ECNFs in the Oxygen Reduction Reaction, *ChemSusChem*. **2017**, accepted. (Impact factor: **7.226**)
8. Y. Liu<sup>1</sup>, Z. Zeng<sup>1</sup>, B. Bloom, D. Waldeck, **J. Wei**,\* Stable Low-current Electrodeposition of α-MnO<sub>2</sub> on Super-aligned Electrospun Carbon Nanofibers for High-performance Energy Storage, *Small* **2017**, In press. (Impact factor: **8.643**)
9. A. D. Covell,<sup>1</sup> Z. Zeng<sup>1</sup>, T. Mabe, **J. Wei**, A. Adamson, D. LaJeunesse,\* Alternative SiO<sub>2</sub> surface energies direct MCDK epithelial behavior, *ACS Biomater. Sci. Eng.*, **2017**, DOI: 10.1021/acsbiomaterials.7b00645. (Impact factor: **3.234**)
10. Z. Zeng, W. Zhang, Y. Liu, P. Li, **J. Wei**,\* Uniformly electrodeposited α-MnO<sub>2</sub> film on super-aligned electrospun carbon nanofibers as a bifunctional catalyst for the oxygen reduction reaction, *Electrochimica Acta*, **2017**, 256, 232-240, DOI: 10.1016/j.electacta.2017.10.057. (Impact factor: **4.798**)
11. W. Zhang<sup>1</sup>, Z. Zeng<sup>1</sup>, **J. Wei**,\* Electrochemical Study of DPPH Radical Scavenging for Evaluating the Antioxidant Capacity of Carbon Nanodots, *Journal of Physical Chemistry C*. **2017**, 121 (34), 18635–18642. (Impact factor: **4.536**)
12. Z. Zeng<sup>1</sup>, W. Zhang<sup>1</sup>, D. Arvapalli, B. Bloom, A. Sheardy, T. Mabe, Y. Liu, Z. Ji, H. Chevva, D. Waldeck, **J. Wei**,\* A Fluorescence-Electrochemical Study of Carbon Nanodots (CNDs) for Bio- and Photoelectronic Application and Energy Gap Investigation, *Physical Chemistry and Chemical Physics (PCCP)*, **2017**, 19, 20101-20109. (Impact factor: **4.123**)
13. Z. Zeng<sup>1</sup>, X. Shi<sup>1</sup>, T. Mabe<sup>1</sup>, S. Christie, G. Gilmore, A. Smith, **J. Wei**,\* Protein Trapping in Plasmonic Nanoslit and Nanoledge Cavities: The Behavior and Sensing, *Analytical Chemistry*, **2017**, 89 (10), 5221–5229. (Impact factor: **6.320**)
14. S. Kaye<sup>1</sup>, Z. Zeng<sup>1</sup>, M. Sanders, K. Chittur, P. Koelle, R. Lindquist, U. Manne, Y. Lin, **J. Wei**,\* Label Free Detection of DNA Hybridization with A Compact LSPR-based Fiber-Optic Sensor, *The Analyst*, **2017**, 142, 1974-1981. (Impact factor: **3.885**)
15. Z. Zeng<sup>1</sup>, Y. Liu<sup>1</sup>, W. Zhang, H. Chevva, **J. Wei**,\* Improved Supercapacitor Performance of MnO<sub>2</sub>-Electrospun Carbon Nanofibers Electrodes by mT Magnetic Field, *Journal of Power Sources*, **2017**, 358, 22-28. (Impact factor: **6.395**)
16. H. Chevva, R. Chandran, D. LaJeunesse, **J. Wei**,\* Silver Nanowires (AgNWs) Growth in-situ on Chitosan Polymer Matrix Film for SERS Application, *Proceedings of 17th IEEE International Conference on Nanotech*. **2017**, pp. 885-889
17. Y. Xu, Z. Li,\* F. Zhang, X. Zhuang,\* Z. Zeng, **J. Wei**,\* New nitrogen-rich azo-bridged porphyrin conjugated microporous networks for high performance of gas capture and storage, *RSC Advances*, **2016**, 6 (36), 30048-30055, (Impact factor: **3.108**)
18. P. Lu, W. Wen, Y. Huang, Z. Zeng, **J. Wei**,\* New insight into advection of organic contaminate plume at drain outlet areas, *Environmental Nanotechnology, Monitoring & Management*, **2016**, 6, 76-82. (Impact factor: **1.797**)

19. Z. Zeng, Y. Liu, **J. Wei\***, Recent advances in surface enhanced Raman spectroscopy (SERS): finite difference time domain (FDTD) method for SERS and sensing applications. *Trend in Analytical Chemistry*. **2016**, 75, 162–173. (Impact factor: **8.442**)
20. Z. Zeng, M.N. Mendis, D.H. Waldeck, **J. Wei\***, A semi-analytical decomposition analysis of surface plasmon generation and the optimal nanoledged plasmonic device, *RSC Advances*, **2016**, 6, 17196 – 17203. (Impact factor: **3.108**)
21. Y. Liu, Z. Zeng, **J. Wei\***, Frontiers in nano-architected carbon–metal oxide electrodes for supercapacitance energy storage, *Front. Nanosci. Nanotech*, **2016**, 2, 78-85.
22. Y. Liu, T. D. Dolidze, S. Singhal, D. E. Khoshtariya, **J. Wei\***, New evidence for a quasi-simultaneous proton-coupled two-electron transfer and direct wiring for glucose oxidase captured by the carbon nanotube-polymer matrix. *Journal of Physical Chemistry C*. **2015**, 119 (27), 14900–14910. (Impact factor: **4.536**)
23. M. Sanders, Y. Lin\*, **J. Wei\***, T. Bono, R. Lindquist, An enhanced LSPR fiber-optic nanoprobe for ultrasensitive detection of protein biomarkers, *Biosensors and Bioelectronics*, **2014**, 61, 95-101. (Impact factor: **7.780**)  
**Note:** Listed as ScienceDirect's 10 most downloaded Chemistry articles published by the end of 2015.
24. **J. Wei\***, M. Kofke, S. Singhal, D.H. Waldeck, A study of localized surface plasmon resonance nanoslit array and applications for chip-based protein detection, *JSM Nanotech. and Nanomed.*, **2014**, 2(2): 1024.
25. Li Z.\*, J. Zhang, et al and **J. Wei\***, A Nanocomposite of copper (II) functionalized graphene and application for sensing sulfurated organophosphorus pesticides, *New Journal of Chemistry*, **2013**, 37 (12), 3956 – 3963. (Impact factor: **3.269**)

#### **Before Joining JSNN/UNCG**

26. S. Zhu, J. Zhang, G. Vegesna, A. Tiwari, F-T. Luo, H. Li, **J. Wei\*** and H. Y. Liu\*, Highly water-soluble, near-infrared emissive copolymeric BODIPY dye bearing RGD peptide residues for cancer imaging, *Analytica Chimica Acta*, **2013**, 758, 138–144.
27. T. H. Zhang; Y. He; **J. Wei**; L. Que, Nanostructured optical microchips for cancer biomarker detection, *Biosensors and Bioelectronics*, **2012**, 38, 382-388.
28. X. Shi, Z. Li, X. Ge, C. Yang, B. Fang, **J. Wei**, H. Xie, K. Zhang, X. An and Ch. Qin, “Water-soluble noncovalently engineered graphene-neutral red nanocomposite with photocurrent generating capacity,” *J. of Nanoscience and Nanotechnology*, **2012**, 12, 1792-1798
29. Z. Li, X.J. Shi, X.P. Ge, **J. Wei**, C. Z. Yang, B. Fang, H. F. Xie, X. C. An, “Electron interaction among the noncovalently engineered graphene-methylene blue nanocomposites” *Chemical Research In Chinese Universities*, **2012**, 28 (3) 520-523.
30. **J. Wei\***, M. Kofke, M. Mendis, H. Song, S. Singhal, DH. Waldeck\*, An In-Plane Nanofluidic Nanoplasmonics-Based Platform for Biodetection, *Proceedings of the ASME 2012 3rd Micro/Nanoscale Heat & Mass Transfer International Conference, MNHMT2012*, **1-7**
31. **J. Wei\***, M. Rexius, M. Kofke, Y. Wang, S. Singhal, D. H. Waldeck, Nano-plasmonics sensing and integration with microfluidics for a lab-on-chip biosensor, *Nanotech*. **2011**, 3, 79-82
32. **J. Wei\***, M. Kofke, S. Singhal, and D. H. Waldeck, “Transmission SPR of Gold Nanoslit and Ultrasensitive Detection of Proteins”, *IEEE Xplore*, **2010**, 1-4.
33. V. Kotipalli, Z. Gong; Y. He; S. Yadav; S. Penmetsa, **J. Wei**, L. Que, “Carbon nanotube film-based cantilever for light and thermal energy harvesting”, *Sensors, IEEE*, **2010**, 1165 – 1168.
34. **J. Wei**, G. Bird, C. Schafmeister, A. Paul, and D. H. Waldeck, “Molecular chirality and charge transfer through self-assembled scaffold monolayers”. *J. of Physical Chemistry B.*; **2006**; 110(3); 1301-1308.
35. **J. Wei**, H.Y. Liu, K. Niki, E. Margoliash, and D. H. Waldeck, “Probing electron transfer pathway of cytochrome c and its mutant immobilized at surface” *Journal of Physical Chemistry B*, **2004**, 108, 16912-16917.
36. D. Murgida, **J. Wei**, P. Hildebrandt, Y. F. He, H. Y. Liu, and D. H. Waldeck, “SERR and Electrochemical Study of Cytochrome c Bound on Electrodes through Coordination with Pyridinyl-terminated SAMs” *Journal of Physical Chemistry B*, **2004**, 108, 2261-2269.

37. D. E. Khoshtariya, **J. Wei**, H. Y. Liu, H. J. Yue, and D. H. Waldeck, "The Charge-Transfer Mechanism for Cytochrome C Adsorbed on Nanometer Thick Films. Distinguishing Frictional Control from Conformational Gating" *J. of American Chemical Society*, **2003**, 125, 7704-7714.
38. H. Y. Liu, H. Yamamoto, **J. Wei**, and D. H. Waldeck, "Control of the Electron Transfer Rate between Cytochrome c and Gold Electrodes by the Manipulation of the Electrode's Hydrogen Bonding Character" *Langmuir*, **2003**, 19(6), 2378-2387.
39. **J. Wei**, H. Y. Liu, D. E. Khoshtariya, H. Yamamoto, and D. H. Waldeck, "Electron Transfer Dynamics of Cytochrome C. A Change in the Reaction Mechanism with Distance". *Angewandte Chemie International Edition*, **2002**, 41 (24), 4700-4703.
40. **J. Wei**, H. Y. Liu, A. R. Dick, H Yamamoto, Y. F. He, and D. H. Waldeck, "Direct wiring of cytochrome c's heme unit to an electrode: Electrochemical studies", *Journal of American Chemical Society*, **2002**, 124 (32), 9591-9599.
41. H. Y He, **J. Wei**\*, and G. Y. Zhang, "Preparation of Modified Melamino-Formaldehyde Resin and Study of Its Flocculation Property" *Journal of Shanghai University (Science Edition, English)*, **2000**, 4 (1), 260-282. ISSN 1007-6417;
42. H. Y. He, and **J. Wei**\*, "The Flocculation of Melamino-Formaldehyde polymer in highly turbid water" *Shanghai Environmental Science*, **2000**, 19 (3) 432-433.
43. **J. Wei**\*, Z. Li, and C. Xu, "The Galvanic Corrosion of Cast Aluminum-Carbon Steel and Inhibition of PBTCA in Aqueous Environment" *Journal Shanghai University*, **1999** 5 (3) 326, ISSN 1007-2861
44. Z. Li, X. H. Guo, **J. Wei**, and M. Qian, "Synthesis and Fouling Inhibition Ability studies of Sulfonated AA-AM copolymers", *J. of East China University of Science and Technology*. **1999**, 25 (6) 622-624.
45. **J. Wei**, Y. Q. Qin, H. Y. Liu, and J. Q. Deng. "Direct Electron Transfer Reactions of Glucose Oxidase and D-Amino Acid Oxidase at a Glass Carbon Electrode in Organic Media" *Journal. Shanghai University (Science Edition, English)*, **1998**, 2 (1) 77-80. ISSN 1007-6417;
46. H. Y. Liu, Z. N. Zhang, M. Dai, Y. B. Fan, **J. Wei**, Z. N. Qiu, H. B. Li, X. Wu, J. Q. Deng, and D. Y. Qi, "Reagentless Amperometric Biosensor Highly Sensitive to Hydrogen Peroxide Based on the Incorporation of Meldola Blue, Fumed Silica and Horseradish Peroxidase into Carbon Paste" *Fresenius Journal Analytical Chemistry*, **1997**, 357 (3): 297-301.
47. H. Y. Liu, X. Zhang, **J. Wei**, X. Wu, D. Qi, Y. Liu, M. Dai, T. Yu, and J. Q. Deng, "An Amperometric Meldola Blue-mediated Sensor: High Sensitive to Hydrogen Peroxide Based on Immobilization of Horseradish Peroxidase in a Composite Membrane of Regenerated Silk Fibroin and Poly (vinyl alcohol)" *Analytica Chimica Acta*, **1996**, 329, 97-103.
48. **J. Wei**, and S. Z. Zheng, "An Inhibitor Complex for Corrosion and Fouling Prevention in Internal Combustion Engine Cooling Water System" *Corrosion & Protection* **1995**. 16 (6), 257-261, ISSN 1005-748X

### Book chapters

1. T. Mabe, J. Ryan, **J. Wei**\*, "Functional Thin Films and Nanostructures for Sensors", for Handbook of Nanoparticles and Architectural Nanostructured Materials, Editor-in-Chief: Ahmed Barhoum, Elsevier Publisher, **2017**, In Press.
2. Y. Liu, Z. Zeng, **J. Wei**\*, "Nano-architected Carbon-metal Oxide Electrodes for Supercapacitance Energy Storage" for Handbook of Nanoparticles and Architectural Nanostructured Materials, Editor-in-Chief: Ahmed Barhoum, Elsevier Publisher, **2017**, In Press.
3. **J. Wei**\*, Z. Zeng, Y. Lin "A LSPR-Coupled Fiber-Optic Nanoprobe for the Detection of Protein Biomarkers", Chapter 1 in Methods in Molecular Biology Series 1571, Biosensors and Biodetection 2017: Optical-based Detectors Volume 1: Methods and Protocols, 2nd Edt. Editors: Avraham Rasooly and Ben Prickril, Humana Press (Springer Copyright), Totowa, NJ, US, ISBN13: 9781493968466, **2017**.

### Conferences Presentations or Posters (\*Corresponding author or presenter)

#### After Joining JSNN/UNCG

1. **J. Wei**,\* **Y. Liu**, **Z. Zeng**, “Manipulate the growth of MnO<sub>2</sub> on aligned ECNFs for energy applications”, 5<sup>th</sup> Nanotoday Conference, **2017**, Kona, HI, December 6-10, 2017.
2. **J. Wei**,\* **Z. Zeng**, **T. Mabe**, X. Shi, A. Smith, “A versatile plasmonic nano-opto-fluidic system for protein trapping and sensing”, 5<sup>th</sup> Nanotoday Conference, **2017**, Kona, HI, December 6-10, 2017
3. **D. M. Arvapalli**, **J. Wei**, “Carbon nanodots (CNDs) based Nanotheranostics for Treatment of Hepatocellular Carcinoma" The Nanomanufacturing Conference **2017**, Greensboro, NC. 9/27/2017,
4. **T. Mabe**, **J. Wei**,\* “A Point of Care Biosensor”, The Nanomanufacturing Conference **2017**, Greensboro, NC. 9/27/2017, The poster won the 1st place in the poster session.
5. **W. Zhang**, **J. Wei**,\* “Carbon nanodots as a new free radical scavenger for nanomedicine application" The Nanomanufacturing Conference **2017**, Greensboro, NC. 9/27/2017
6. **A. Sheardy**, **J. Wei**,\* Carbon Nanodot-Copper Sulfide Core-Shell Nanoparticle for Photothermal Therapy, CALCON 2017, Colorado Springs, CO August 3, 2017
7. **J. Wei**,\* **H. Chevva**, R. Chandran, D. LaJeunesse, Silver Nanowires (AgNWs) Growth in-situ on Chitosan Polymer Matrix Film for SERS Application, *17th IEEE International Conference on Nanotech.* July 25-28, **2017**, Pittsburgh, PA, USA.
8. **A. Sheardy**, **J. Wei**,\* Carbon Nanodot-Copper Sulfide Core-Shell Nanoparticle for Photothermal Therapy, The 17th Annual Poster & Vendor Night, Central NC ACS, March 24, 2017, Greensboro, NC.
9. **W. Zhang**, **Z. Zeng**, **J. Wei**,\* A Fluorescence-Electrochemical Study of Microwave-assisted Synthesis of Carbon Nanodots (CNDs) and Their Potential Applications, The 17th Annual Poster & Vendor Night, Central NC ACS, March 24, 2017, Greensboro, NC.
10. Y. Lin, **J. Wei**, K. Chittur, R. Lindquist, U. Manne, A LSPR Fiber Optic Biosensor for Point-of-Care Diagnostics, SPIE Photonics West, San Francisco, CA, Jan 31-Feb. 2, **2017**
11. **T. Mabe**, **J. Wei**,\* Bimetallic Nanostructured Arrays in SPR Biosensing, MRS/ASM/AVS Joint Symposium at NCSU, Raleigh, NC 27695, Nov. **2016**.
12. **Y. Liu**, **J. Wei**,\* A Nanoarchitected Electrode for A High Performance Pseudocapacitor, MRS/ASM/AVS Joint Symposium at NCSU, Raleigh, NC 27695, Nov. **2016**.
13. **T. Mabe**, **Z. Zeng**, **J. Wei**,\* Bimetallic Nanostructured Arrays in Surface Plasmon Resonance Sensing, September 28, JSNN Nanomanufacturing **2016** conference, Greensboro, NC (the best poster award).
14. **J. Wei**,\* **Z. Zeng**, **T. Mabe**, J. Starobin, “A Versatile Plasmonic Nano-Opto-Fluidic (p-NOF) Platform”, Plasmonics and Nanophotonics, the Gordon Research Conferences, July 10-15, **2016**, Sunday River in Newry, ME, USA
15. **Z. Zeng**, **J. Wei**,\* “A Versatile Nano-biosensor for Blood Biomarkers: Analysis of surface plasmon (SP) generation and an optimal nano-optofluidic device for sensing applications”, The 16<sup>th</sup> Annual Poster & Vendor Night, Central NC ACS, April 12, **2016**, Greensboro, NC, USA
16. **T. Mabe**, **J. Wei**,\* “Enhanced Sensitivity of Plasmonic Devices using Nanostructures and Bimetallic Layers”, The 16<sup>th</sup> Annual Poster & Vendor Night, Central NC ACS, April 12, **2016**, Greensboro, NC.
17. **T. Mabe**, **Z. Zeng**, **J. Wei**,\* “Thin film Gold Nanoslit Arrays for Protein Sensing and A Bimetallic Nanoslit Array Development” September 30, **2015**, JSNN Nanomanufacturing 2015 conference, Greensboro, NC
18. **Y. Liu**, T. D. Dolidze, S. Singhal, D. E. Khoshtariya and **J. Wei**,\* “Direct wiring and two-electron exchange mechanism for glucose oxidase at GC/nanotube electrodes”, the 10th European Biophysics Congress, July 18-22, **2015**, Dresden (Germany)
19. **Y. Liu**, A. Aboagye, L. Zhang, **J. Wei**,\* “A nano-architected electrode for a high-performance supercapacitor”, Quantifying Exposure to Engineered Nanomaterials (QEEN) from Manufactured Products” workshop, July 7-8, **2015**, Washington DC.

20. Y. Liu, A. Aboagye, L. Zhang, **J. Wei\***, “An electrospun carbon nanofiber electrode for supercapacitive energy storage”, September 24, **2014**, JSNN Nanomanufacturing 2014 conference, Greensboro, NC
21. J. Smith, R. K. Sharma, L. Zhang, **J. Wei\***, “Inspection of Nanostructure Inspired Photonic Devices for Sensor Applications”, SRC TECHCON 2014, Sep. 7-9, **2014**, Austin, TX

#### **Before Joining UNCG**

22. JT Zhang, SL Zhu, GK Vegesna; **J. Wei\***; FT Luo, HY Liu, “Highly water-soluble, near-infrared emissive copolymeric BODIPY dyes and their cancer imaging application”, *The Amer. Chem. Soc.*: **2012**, 244, 529-ORGN
23. **J. Wei\***, S. Singhal, H. Y. Liu, “An Electrochemical Probe Technology for a. Label-Free, Point-of-Care Biosensor” 222 ECS Honolulu PRiME Oct. **2012**
24. **J. Wei\***, S. Singhal, T. Massey, H. Sato, M. Maharbiz\* “Power Generation from Complex Sugars in Live Insect Tissue” 221st ECS Meeting, Seattle, WA, May 6-11, **2012**.
25. **J. Wei\***, M. Kofke, M. Mendis, H. Song, S. Singhal, DH. Waldeck, “An In-Plane Nanofluidic Nanoplasmonics-Based Platform for Biodetection”, 3rd Micro/Nanoscale Heat & Mass Transfer International Conference, MNHMT2012, March 3-6, **2012**, Atlanta, Georgia, USA
26. **J. Wei\***; Liu, H.Y.; Velayudham, S., A Conjugated Polymer-Copper Ion Nanocomplex for Sensing A Nerve Agent, Proc. of Nanoelectronic Devices for Defense & Security Conference (NanoDDS), New York, August 26-28, **2011**
27. **J. Wei\***, M. Rexius, M. Kofke, Y. Wang, S. Singhal, D. H. Waldeck, “Nano-plasmonics Sensing and Integration with Microfluidics for a Lab-on-chip Biosensor”, TechConnect World Conference & Expo Boston, MA, June 13-16, **2011**
28. **J. Wei\***; M. Kofke, M. Rexius, S. Singhal, J. Sullivan, and D. H. Waldeck, “Nano-plasmonics based sensing and integration with microfluidics for a lab-on-chip biosensor” *The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010)*, Honolulu, Hawaii, USA, December 15 - 20, **2010**.
29. **J. Wei\***, D. E. Khoshtariya, S. Singhal, T. D. Dolidze, and D. H. Waldeck, “Insight to Electron Transfer Paradigm for Glucose Oxidase Entrapped in a Nanomaterial Matrix” *The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010)*, Honolulu, Hawaii, USA, December 15 - 20, **2010**.
30. V. Kotipalli, Z. Gong; Y. He; S. Yadav; S. Penmetsa, **J. Wei**, L. Que\*, “Carbon nanotube film-based cantilever for light and thermal energy harvesting” *9th IEEE SENSORS CONFERENCE* Hawaii, USA November 1-4th, **2010**,
31. **J. Wei\***, M. Kofke, S. Singhal, M. Rexius, J. Sullivan, and D. H. Waldeck, “Nanoplasmonics-based Ultrasensitive Biological Sensing System”, *International Symposium on Spectral Sensing Research (ISSSR)*, Springfield, Missouri, June 21-24, **2010**.
32. S. Singhal, **J. Wei**, S. Northcutt, and V. Svoboda\*, “Novel Micropower Source For Insect Based Sensor and Communication Platforms” *International Symposium on Spectral Sensing Research (ISSSR)*, Springfield, Missouri, June 21-24, **2010**.
33. S. Singhal, V. Svoboda, **J. Wei**, and S. Northcutt, “Biobattery Platform for Soldier Portable Power Sources”, *44<sup>rd</sup> US National Power Source Conference Proceedings*, June 16-18 **2010**, 4pp.
34. **J. Wei\***, M. Kofke, S. Singhal, and D. H. Waldeck, “Transmission SPR of Gold Nanoslit and Ultrasensitive Detection of Proteins”, *the 4<sup>th</sup> International Conference on Bioinformatics and Biomedical Engineering (iCBBE)* Chengdu, China, June 18-20, **2010**.
35. J. P. Guo\*, H. S. Leong, R. Lindquist, **J. Wei**, and D. Brady, “Chip-Level Surface Plasmon Resonance Biochemical Sensors Using Patterned Metallic Nanostructures”, *SPIE Photonic West*, San Francisco, CA, Jan. 23-28, **2010**.

36. S. Singhal\*, **J. Wei**, S. Northcutt, K. Pant, and V. Svoboda, "Novel MicroPower Source for Insect Based Sensor and Communication Platforms" *Chemical and Biological Defense Science and Technology (CBD S&T) Conference*, Dallas, TX, **2009**.
37. S. Singhal, **J. Wei\***, and C. Onwere, "Bio-battery: Renewable Energy Source for Portable Power Application", *NSTI Nanotechnology Conference and Expo*, Houston, TX, May, **2009**.
38. V. Svoboda\*, **J. Wei**, C. Onwere, S. Singhal, Y. Tian, E. Chi, and P. Attanassov, "Glucose-air Enzymatic Fuel Cell for Portable Electronics Applications", *216<sup>th</sup> Electrochemical Society Meeting*, Vienna, Austria, **2009**.
39. K. Bhatt, Y. Wang, **J. Wei**, and K. Pant, Nanoelectrokinetic, "Label-Free Sensor for Toxic Industrial Chemical Detection", *Chemical and Biological Defense Science and Technology (CBD S&T) Conference*, Dallas, TX, **2009**.
40. A. Gidwani\*, D. Sengupta, **J. Wei**, S. Deaconu, and J. V. Cole, "Adsorption Column For Removing Trace Amount Of Copper From Jet Fuel", *Am. Chem. Soc., Div. Fuel Chem.* **2009**, 54 (2), 1-4
41. **J. Wei\***, A. Bedekar, C. Onwere, and S. Sundaram, "Generation of Electricity from Biofuel Using Nanocatalytic System", *43<sup>rd</sup> US National Power Source Conference Proceedings*, **2008**, 335-338
42. **J. Wei\***, D. H. Waldeck, Y. Wang, M. Kofke, K. Pant, and S. Sundaram, "A Novel Plasmonics-Based Nanotechnology for a Label-Free, On-Chip Biosensor", *ISSSR*, Hoboken, NJ, **2008**.
43. **J. Wei\***, S. Mallin, and A. Bedekar, "A Hybrid Biobattery: Generation of Electricity from a Combined Nano-catalytic system". *The Amer. Chem. Soc. 234th National Meeting*: Boston, MA, USA, Aug. 19-23, **2007**.
44. G. R. Wang\*, J. Guo, Y. Lin, J. Feng, **J. Wei**, Y. Wang, S. Krishnamoorthy, and S. Sundaram, "Laser-Induced Fluorescence Photobleaching Anemometer for Flow Velocity Measurement in Sub-Microscale Fluidic Channels". *IEEE Lasers and Electro-Optics Society*, pp 34-35, **2006**, Quebec City, QC, Canada.
45. **J. Wei\***, G. Bird, C. Schafmeister, and D. H. Waldeck\*, "Molecular chirality and charge helicity in charge transfer through self-assembled chiral monolayers" *The Amer. Chem. Soc.:* **2005**, 229 U758-U758.
46. D. H. Waldeck\*, **J. Wei**, and A. Napper, "Electron Tunneling Pathways between molecules and electrodes". *The Amer. Chem. Soc.:* **2005**, 229, U726-U726 496-COLL
47. D. Waldeck\*, H. Yue, **J. Wei**, R. Clark, H. Y. Liu, "Fundamental Studies of Electron Tunneling between Electrodes and Proteins" *the Symposium: Electron Transfer Through Organic and Biological Bridges II*, of the *207th Meeting of The Electrochemical Society*, May 17, **2005**. Quebec, Canada. Paper #1417.
48. **J. Wei\***, and D. H. Waldeck\*, "Ligand Nanoengineering of Cytochrome c to Metal (Au, Ag) Electrodes and an Electron Transfer Study", *204<sup>th</sup> The Electrochemical Society*, Orlando, FL. Oct. 12-18, **2003**.
49. D. H. Waldeck\*, and **J. Wei**, "Fundamental Studies of Electron Transfer between Cytochrome c and Electrodes", *The Bioelectrochemical Society XVII International Symposium on Bioelectrochemistry and Bioenergetics*, Florence, Italy. June 19, **2003**.
50. **J. Wei\***, and D. H. Waldeck\*, "Bound Cytochrome c to Metal Electrodes and Charge Transfer Study", *Science2003: Improving the Human Condition*, the University of Pittsburgh, Sep. 24-26, **2003**.
51. **J. Wei\***, and D. H. Waldeck\*, "Electron Transfer Dynamics of Cytochrome c on a SAM Modified Electrode". *Synergy in Science*, Pittsburgh, PA, Sep. 18-20, **2002**.
52. **J. Wei\***, and D. H. Waldeck\*, "Bioelectrochemistry and Electron Transfer of Immobilized Cytochrome c on a SAM Modified Electrode" *Presentation of Dept. of Chemistry and Industrial Visiting Committee*, University of Pittsburgh, PA, **2002**. Winner of Excellent Poster Award

#### **PATENTS & IP DISCLOSURE**

- US Application: 2016/62/357180, "Nanoplasmonic devices and applications thereof", full patent, filed on June 30, 2017, Inventor: **J. Wei**



- US Application: 2017/62/478,773, "Separator-Free Energy Storage Devices and Methods", filed on March 30, **2017**, EFS ID: 28785044, Inventor: **J. Wei**, Y. Liu, Z. Zeng
- US 9509009, approved on 11/29/2016, Enzyme catalyzed oxidation of hydrocarbons, Inventors: Y. Ulyanova, S. Minteer, S. Singhal, V. Svoboda, **J. Wei**. Issued 11/29/2016
- UNCG Disclosure #D16-0001, Portable urinary F2-isoprostanes assessment for determining fat utilization, July 13, **2015**,
- UNCG Disclosure #D15-0018, Morphology controllable deposition of metal oxide for enhanced energy storage, June 15, **2015**
- UNCG Disclosure #D15-0017, A versatile optofluidic platform for multiplexed detection of small molecular biomarkers in body fluids, June 12, **2015**
- *US 8703022*, 04/22/2014. Electrically conductive ink and uses thereof. Inventors: V. Svoboda, **J. Wei**, S. Singhal
- *US 8685286*, 04/02/2014. Electrically conductive ink and uses thereof. Inventors: V. Svoboda, **J. Wei**, S. Singhal
- *US 8158409*, 04/17/2012 Nanoscale Surface Plasmonics Sensors with Nanofluidic Control, Inventors: **J. Wei**, S. Singhal, D. H. Waldeck, M. Kofke
- *20080213631*: Hybrid Power Strip, U.S. Patent Application No. 60/858,590
- *20090120843*: Filtration Apparatus and Method, US Patent Application No.: 11/930,819

#### **INVITED TALK/SEMINAR**

1. 02/03/2017, invited talk: "Nanoscale Interactions: Nanoplasmonics for sensing and fluorescence origin from Carbon nanodots", The Department of Chemistry, UNC Greensboro, NC
2. 04/14/2016, invited talk: "*Nanoplasmonic Sensing and A Nano-opto-fluidic Platform*", Department of Chemistry, North Carolina A&T State University, Greensboro, NC.
3. 03/02/2016, invited talk: "*Nano-plasmonic biosensors and an analysis of surface plasmon resonance towards an optimal nano-optofluidic device*", the Fitzpatrick Institute for Photonics (FIP, involving over 120 faculty members from 37 departments), Duke University, Durham, North Carolina, USA.
4. 01/09/2016, invited talk: "*Plasmonic and Polymeric Nanoprobes Toward Cancer Diagnosis*", at the International Summit for Biological Targeting Diagnosis and Therapy, Nanning, Guangxi Province, China,
5. 01/08/2016, invited talk: "*Enhanced nanoplasmonic nanoprobes for cancer biomarker detection and polymer imaging agent for cancer cells*" Guangxi National University, Nanning, China,
6. 8/21/2015, "*LSPR-based biosensors*", Department Mechanical Engineering (H. Cho Lab), UNC charlotte, NC
7. 3/18/2014 "*Nano-bioelectronics & Nano-plasmonics: Studies of nanoengineered biointerface and applications in energy and sensing*", Biological and Agricultural Engineering, North Carolina State University (NCSU)
8. 12/2013, "Nanoplasmonics and Nanoelectronics" Invited talk to the Board Directors of Gateway Research Park, Greensboro, NC
9. 09/16/2010: Invited talk, "*Micro/nano Systems for Clean Energy and Biosensing: Bioelectronics and Nanoplasmonics*", The Bioengineering Program at Louisiana Tech University.
10. 9/22/2009: Invited Presentation, "*Bio-battery: Renewable Energy Source for Portable Power Application*" Lockheed Martin Special Symposium at *NSTI Nanotechnology Conf. and Expo*, Houston, TX.

## RESEARCH GROUP ACHIEVEMENT & AWARD AND MEDIA REPORTS

- 2017 Yiyang Liu, Zheng Zeng passed the defenses of their PHD dissertation in Oct. 2017.
- 2017 Taylor Mabe, First Prize of UNCG 3MT received \$1,000 award and travel to the regional 3MT competition.
- 2017 Winner of the worldwide Jove Film your research contest for the Plasmonic device fabrication video on Sept 1st 2017, <https://www.jove.com/blog/2017/09/01/from-space-exploration-to-disease-treatments-watch-the-winning-videos-from-joves-film-your-research-contest/>
- 2017 Winner the 1st place for the national NNCI and Nano.gov contest for their nanotech initiative contest, <https://www.nano.gov/node/1767>, <http://www.nnci.net/blog/national-nanotechnology-initiative-multimedia-contests-open-submissions>
- 2017 Selected to be one of National Science Foundation NSF iCorp teams at UNCG site, **2017** (with Taylor Mabe). [www.bizjournals.com/triad/news/2017/08/07/uncg-n-c-a-t-launch-program-to-support.html](http://www.bizjournals.com/triad/news/2017/08/07/uncg-n-c-a-t-launch-program-to-support.html)
- 2017 Winner of the world-wide Jove “film your research” contest. 1st Place by Popular Vote, [www.jove.com/blog/2017/09/01/from-space-exploration-to-disease-treatments-watch-the-winning-videos-from-joves-film-your-research-contest/](http://www.jove.com/blog/2017/09/01/from-space-exploration-to-disease-treatments-watch-the-winning-videos-from-joves-film-your-research-contest/)
- 2017 Fox 8 News Interview, “Buckley Report”, <http://myfox8.com/2017/09/06/local-scientist-creates-handheld-chemistry-lab/>
- 2017 National Prize Winner of Nano.gov annual video contest for Nanotechnology, [www.nano.gov/node/1767](http://www.nano.gov/node/1767)
- 2017 Taylor Mabe, Winner of the 2017 Research and Creativity Expo, <https://grs.uncg.edu/winners-2017-graduate-research-creativity-expo/>, <https://newsandfeatures.uncg.edu/5th-annual-graduate-research-creativity-expo/>
- 2017 Taylor Mabe, Session with Alan Alda from the ‘Alan Alda Center for Communicating Science at Stony Brook’ due to winning the “Scientific Communication Workshop” at UNCG. [alda.taylormabe.com](http://alda.taylormabe.com)
- 2017 Alex, Durga, Harish, Taylor, Zheng, awards of the Graduate School’s Summer Research Fellowship Award, \$2000
- 2016 Taylor Mabe, NanoManufacturing Conf., Best Poster Presentation, 2nd Place, [www.nanomanufacturingconference.org/poster.php](http://www.nanomanufacturingconference.org/poster.php)
- 2016 Taylor Mabe, Winner of the Graduate School’s Summer Research Fellowship Award, \$2000, <https://sites.google.com/a/uncg.edu/wei-s-group-jsnn/news>
- 2016 Taylor Mabe, Winner of 2016 Research and Creativity Expo, <https://grs.uncg.edu/grc-expo> <http://research.uncg.edu/researchperspectives/handheld-biosensors-for-disease-diagnosis>,
- ’15-16 Taylor Mabe GEMs (Growing Entrepreneurs through Mentorship) Finalist and Mentee,
- 2015 Fox8 News Buckley Report on, The Magic of Nanotech, <http://myfox8.com/2015/08/05/buckley-report-looks-at-the-magic-of-nanotechnology/>, [www.youtube.com/watch?v=KdA1MfbYfy0](http://www.youtube.com/watch?v=KdA1MfbYfy0)
- ’14-16 Taylor Mabe “2 Minutes to Win It” business pitch contest among NC college students. 1st place 2014, 3rd 2015, and 2nd 2016, [https://startup.uncg.edu/2\\_minutes.html](https://startup.uncg.edu/2_minutes.html)
- 2015 Yiyang Liu, travel award to Quantifying Exposure to Engineered Nanomaterials (QEEN) workshop, July 2015, Arlington, VA

## TEACHING

JSNN/University of North Carolina at Greensboro (UNCG, since fall 2013)

NAN-601: Nanochemistry (Foundational course, Instructor and developer, fall semester, 3 credit hours)

NAN-611-01: Analytical Chemistry (Laboratory rotation, Course developer, fall and spring semesters, 1 credit hour)

NAN-611-06: Nano-Electrochemistry (Laboratory rotation, Course developer, fall and spring semesters, 1 credit hour)

NAN-611-26: Biosensors and Bioelectronics (Laboratory rotation, Course developer, fall and spring semesters, 1 credit hour)

NAN-692-08: Directed graduate studies (seminar-based, course developer, fall semester, 1 credit hour)

NAN-630: Advance in Nanobiosensors (course developer, spring semester, 3 credit hours)

NAN-724: Nanoscale Reaction (course developer, spring semester, 3 credit hours)

NAN-799: Dissertation Research. 2013-present, student rating of class 100%

## **SUPERVISING, TRAINING AND MENTORING**

### **JSNN/UNCG:**

#### **Advisees:**

Zheng Zeng (PHD, fall 2014-2017, graduated): Nano-opto-fluidic chip, fundamentals and applications

Yiyang Liu (PHD, spring 2014-2017, graduated): Nanomaterials electrochemistry and energy storage

Taylor Mabe (PHD, fall 2014-present): Bimetallic LSPR and SPRi for sensing

Alex Sheardy (PHD, fall 2015-present): Hybrid nanoparticles synthesis and biomedical applications

Durga M. Arvapalli (PHD, fall 2015-present): Real-time monitoring cell on-chip

Harish Chevva (PHD, fall 2015-present): SERS for single molecular sensing

Wendy Zhang (PHD, fall 2015-present): Carbon quantum dots (CQDs) and applications

Kokougan Allado Yawovi, (fall 2016-present): energy conversion and storage

Zuowei Ji (PHD, fall 2016-present): Nanomaterials and biomedical applications

Bhawna Bagra (PHD, fall 2016-present): SERS and sensing

#### **Thesis committee:**

De'Andre J. Cherry (MS in Nanoengineering, 2013-2014, graduated), Thesis title: *Smart Polyacrylonitrile (PAN) Nanofibers with Thermal Energy Storage & Retrieval Functionality.*

Richard Vestal (PHD in Nanoscience, 2013-2014, graduated), Thesis title: *Targeting the atypical chemokine receptor ACKR3/CXCR7 for the treatment of cancer and infectious diseases*

Karshak Kosaraju (PHD in Nanoscience, 2013-2015, graduated), Thesis title: *Study of Toxicity and Uptake of Nanoparticles towards understanding Biotic-Abiotic Interactions*

Stephen R. Meier (PHD in Nanoscience, 2014-2016, graduated), Thesis title: *The Investigation of Variable Nernst Equilibria on Isolated Neurons and Coupled Neurons Forming Discrete and Continuous Networks*

Reynaldo Diaz (PHD in Nanoscience, 2014-present), Thesis title: *Bio-interfaces of nanostructures and cells.*

Michael Azad (PHD in Nanoscience, 2015-present) Thesis title: *Microwave assisted polymerization*

Rakkiyappan Chandran (PHD in Nanoscience, 2015-2017, graduated), Thesis title: *Bio-mimicking Multimodal Nanostructured Surfaces using a Self-Assembly Biopolymer*

Henry Ochije (PHD in Nanoscience, 2015-present), Thesis title:

Afraa A. Abusalih (PHD in Nanoengineering, 2015-present), Thesis title: *Detection and Measurement of Carbon Nanotubes in Industrial Wastewater*

Smith Woosley (PHD in Nanoengineering, 2015-present), Thesis title: *Functional 3D Printing with Thermoplastic Nanocomposites for Energy Storage Applications*

Michael Azad (PHD in Nanoscience, 2013-present) Thesis title: *A comparison study of microwave-assisted polymerization and free radical solution polymerization: synthesis, kinetics and applications.*

Scott Jalovec, (PHD in Nanoscience, 2015-present).

Divya Lyer, (PHD in Nanoscience, 2015-present)

Matthew Carnaghi, (PHD in Nanoscience, 2016-present)

#### **Alumni at JSNN:**

Yiyang Liu, Ph.D. 2017

Ashutosh Shah (MS in Nanoengineering, 2014-2016, co-advisor): simulation/modeling for energy storage

Alex Aboagye (PHD in Nanoengineering, 2014, Co-advisor), Thesis title: *Carbon Nanofibers from Electrospinning and their Applications*

Jay Wilhelmi (undergraduate, spring 2014),

Jake Smith (undergraduate, summer 2014)

Justin Campbell (undergraduate, spring 2015)

Juan Peñaranda (undergraduate, spring 2016)

Shuayl Alotaibi (MS in Nanoscience, spring 2016)

#### **JOURNAL REVIEWER**

- Journal of Physical Chemistry (ACS)
- Journal of Materials Chemistry A. (RSC, Impact Factor: 8.867)
- Biosensor and Bioelectronics (*Elsevier Publisher*, Impact Factor: 7.780)
- Biomedical Microdevices (*Springer Link*, Impact Factor: 2.062)
- ChemSusChem (*Wiley-VCH*, Impact Factor: 7.226)
- Diagnostic Microbiology and Infectious Disease (*Elsevier Publisher*, Impact Factor: 2.401)
- Electrophoresis (*Wiley Online Library*, Impact Factor: 2.744)
- Green Chemistry (RSC, Impact Factor: 9.125)
- IEEE Electronic Device Letters (*IEEE*, Impact Factor: 3.048)
- International Journal of Molecular Sciences (*MDPI Publisher*, Impact Factor: 3.226)
- Journal of Electroanalytical Chemistry (*ScienceDirect Publisher*, Impact Factor: 3.012)
- Journal of Nanophotonics (*SPIE Digital Library*)
- Micromachine (*MDPI Publisher*, Impact Factor: 1.833)
- Molecules (*MDPI Publisher*, Impact Factor: 2.861)
- Nanoscale (RSC, Impact Factor: 7.367)
- New Journal of Chemistry (RSC, Impact Factor: 3.239)
- Physica B Condensed Matter (*ScienceDirect Publisher*, Impact Factor: 1.386)
- Physical Chemistry Chemical Physics (RSC, Impact Factor: 4.123)
- Sensors & Actuators: B. Chemical (*Elsevier Publisher*, Impact Factor: 5.401)