

Yiping Zhao

Department of Physics and Astronomy
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EDUCATION

Ph. D. in Physics **08/99** **Rensselaer Polytechnic Institute, Troy, NY**
Thesis: In-plane light scattering from fractal surfaces – principles and experiments
Advisors: Prof. T.-M. Lu and Prof. G.-C. Wang

MS in Physics **07/94** **Institute of Semiconductors, CAS, Beijing, China**
Thesis: A new method for detecting subtle changes in Si-H bonds of a-Si:H
Advisor: Prof. G. L. Kong

BS in Electronics **07/91** **Peking University, Beijing, China**
Thesis: A new method for acquiring high resolution atmospheric Rayleigh-Mie spectrum
Advisor: Prof. Y. F. Wu

PROFESSIONAL CAREER

4/16 – present	Distinguished Research Professor of Physics	UGA, Athens, GA
7/12 – present	Adjunct Professor, College of Engineering	UGA, Athens, GA
7/10 – present	Professor of Physics	The University of Georgia, Athens, GA
7/09 – 09/15	Director	Nanoscale Science and Engineering Center, UGA, Athens, GA
6/08 – present	Founder	Argent Diagnostic, Inc., Athens, GA
4/08 – 7/10	Adjunct Associate Professor of Bio&Arg. Eng.	UGA, Athens, GA
7/07 – 7/10	Associate Professor of Physics	The University of Georgia, Athens, GA
8/02 – 6/07	Assistant Professor of Physics	The University of Georgia, Athens, GA
8/00 – 7/02	Research Assistant Professor	Rensselaer Polytechnic Institute, Troy, NY
8/99 – 7/00	Research Scientist	Rensselaer Polytechnic Institute, Troy, NY

AWARDS & HONORS

SPIE Fellow, 2017
AVS Fellow, 2017
Distinguished Research Professor, University of Georgia, 2016
Nano-Engineering Pioneer Award, SPIE Defense, Security and Sensing Meeting, 2012
Creative Research Medal, University of Georgia, 2009

SOCIETY MEMBERSHIPS

Member, SPIE
Member, American Vacuum Society
Member, Materials Research Society

PROFESSIONAL ACTIVITIES

Service: SPIE Scholarship Committee (2016 – 2018); Member of the Departmental Graduate Admission Committee (2002 – 2005, 2007-2008, 2010-2011, 2014-present); Judge for MRS

Graduate Student Award (2006); Member of Advisory Committee, Center for Ultrastructural Research at UGA (2006-2009); Member of Advisory Committee, Nanoscale Science and Engineering Center at UGA (2005-2009); Chairman of the Departmental Prelim Exam Committee (2007-2008, 2017); Member of the Departmental Planning and Development Committee (2007-2008); Member of the Departmental Post Tenure Review Committee (2007-2009, 2011-2012, 2012-2013, 2015); Leader for UGA Cleanroom Facility Design and Construction (2008-2010); Member of the Departmental Graduate Curriculum Committee (2012-2013, 2014-2016); Member of Engineering Council, UGA Faculty of Engineering/College of Engineering (2009-2012); Chairman, Physics Department Award Committee, Georgia Science and Engineering Affair (2010 – 2014); Member of University Council (2012 – 2015); Member of UGA Postdoc Award Committee (2014-2016); Member of Advisory Committee, Georgia Advanced Computing Resource Center (2012 – 2015)

Panelists: 2 NSF NIRT panels (2004), NSF CAREER panel (2004, 2018, 2019), NSF NanoManufacturing panel (2008, 2014), NSF CMMI panel (2012), NSF DMR panel (2013), NSF CMMI panel (2014), NSF SBIR/STTR (2016, 2017), NSF MRSEC Site Visit (2018)

Nano Art Exhibits (March 2007, Sept. 2007)

Meeting Organization: UNYVAC'2002, August 2002, Troy, NY

ACS Southeast Regional meeting'06, MRS'08 Fall Meeting, co-organizing SESAPS meeting'09

Proposal reviewer: NSF, ACS Petroleum Research Fund, US Civilian Research and Development Foundation, National Science Foundation, USDA, Army Research Lab, Research Cooperation, Ontario Research Fund, NIH SBIR, DOE SBIR, DOE Hydrogen Initiative, Hong Kong Research Grants Council, the Netherlands Organization for Scientific Research, German-Israeli Water Technologies, Welsh Government, Kuwait Foundation for the Advancement of Sciences (KFAS),

Referee: Nature Nanotechnology, Nature Communication, Science Advance, Nano Letters, ACS Nano, Journal of American Chemical Society, Nano Today, Advanced Functional Materials, Small, ACS Applied Materials & Interfaces, ACS Photonics, Applied Physics Letters, Optical Letters, Optical Express, Nanotechnology, Nanoscale, ACS Catalysts, Journal of Electrochemical Society, Physica Status Solidi, Scientific Reports, Physical Review B, Journal of Physics & Chemistry of Solids, Journal of Vacuum Science and Technology, Journal of Applied Physics, Surface Sciences, Journal of Luminescence, Journal of Physical Chemistry, Langmuir, Crystal Growth and Design, Sensors and Actuators B, Spectra, Journal of Physics D: Applied Physics, Journal of Materials Research, Thin Solid Films, Journal of Materials Chemistry, Journal of Raman Spectroscopy, *etc.*

MAJOR AWARDS FOR STUDENT/POSTDOC SURPERVISED

Dr. Steve Larson'18	2018 Graduate Research Award, AVS Thin Film Division
Dr. Yizhuo He'15	2014 Graduate Research Award, AVS Thin Film Division
Dr. Manoj Manjare'14	2013 Graduate Research Award, AVS Thin Film Division
Dr. George Larsen'14	2012 Graduate Research Award, AVS Thin Film Division
Dr. Justin Abell'12	2012 American Vacuum Society National Student Award
Dr. John Gibbs'11	2011 Graduate Research Award, American Vacuum Society
Dr. Yuping He	2011 UGA Postdoctoral Research Award
Dr. Yongjun Liu'10	2009 Graduate Research Award, American Vacuum Society
Dr. Jianguo Fan'07	2008 Excellence in research by the Graduate Student Award, UGA
Dr. Jianguo Fan'07	The Dorothy M. and Earl S. Hoffman Scholarship, AVS, 2007
Dr. Yuping He	2007 Outstanding Young Researcher Award, AVS Thin Film Division

CURRENT RESEARCH FUNDINGS

1. *Collaborative Research: Precise and Dexterous Single-Particle Manipulation Using Non-uniform AC Magnetic Fields*, \$215,683, 06/15/2018 – 6/14/2021, **National Science Foundation ECCS-1808271**.

COMPLETED PROJECTS

1. *Fabricating Superlattice Nanostructures*, \$7,000, 1/03–01/04 **Faculty Research Grants**, UGA Research Foundation.
2. *Developing Microstructures for Three-Dimensional Cell Growth*, \$75,000, 08/03–08/05, **Engineering Grant**, UGA Research Foundation.
3. *Wettability of Aligned Nanostructures*, \$7,517, 01/05–01/06 **Faculty Research Grants**, UGA Research Foundation.
4. *Direct deposition of aligned nanorod array onto optical fiber for biosensor applications*, \$10,000, 07/05–06/06, **Georgia Research Alliance Innovation Fund**.
5. *A Nanorod-Based Sensor for Bio-Signal Amplification and Rapid Detection of Pathogens*, \$85,000, 08/04–08/05, **Engineering Grant**, UGA Research Foundation.
6. *Fabricating Heterogeneous Nanorods by Physical Vapor Deposition*, \$100,000, 07/04–06/07 **National Science Foundation Nanoscale Exploratory Research (NER) ECCS-0404066**.
7. Supplementary to *Integrated Nanoscale Metal Hydride-Catalyst Architectures for Hydrogen Storage*, from **Department of Energy** \$200,000, 09/06.
8. Acquisition of Goods and Services, from **USDA** \$24,340, 10/06–08/07.
9. *Optimizing Nanostructured Metal Surfaces for Surface Enhanced Raman Diagnostics of Infectious Viruses*, \$88,140, 07/07–06/08, **Georgia Research Alliance**.
10. *Enhancing the Sensitivity and Stability of Biosensors by Novel Nanostructures*, \$1,000,000, 08/03–07/08 **National Science Foundation Nanoscale Interdisciplinary Research Teams (NIRT) ECCS-0304340**.
11. *Integrated Nanoscale Metal Hydride-Catalyst Architectures for Hydrogen Storage*, \$900,000, 09/05–08/09, **Department of Energy DE-FG02-05ER46251**, Office of Science, Hydrogen Fuel Initiative.
12. Acquisition of Goods and Services, from **USDA** \$27,060, 01/08-12/08.
13. *Nanostructured microarrays for respiratory virus detection*, \$1,000,000, 05/07–06/09, **Department of Defense**.
14. Acquisition of Goods and Services, from **USDA** \$7,700, 08/09–12/09.
15. *Integration of Aligned Nanorod Array Structures into Fiber Raman Probes*, \$300,000, 07/07–06/11, **National Science Foundation ECCS-0701787**.
16. *Designing Catalytic Nanomotors*, \$300,000, 09/07–08/11, **National Science Foundation CMMI-0726770**.
17. *Tailoring Hydrogen Storage Performance by Novel Mg-Catalyst Nano-Architectures*, \$100,000, 8/15/09–1/31/11, **National Science Foundation CBET-0853130**.
18. *Hydrogen Generation Using Integrated Photovoltaic and Photoelectrochemical Cells*, \$900,000, 09/05–08/12, **Department of Energy DE-FG02-06ER46232**, Office of Science, Hydrogen Fuel Initiative.

19. *Understanding and Preventing Nano-Carpet Effect*, \$300,750, 08/08–07/12, **National Science Foundation CMMI-0824728**.
20. *Nano-Photocatalysts for Solar Fuels Applications: Conversion of CO₂ to Hydrocarbons*, \$300,000, 09/01/2010–08/31/2012, **US DOE Savannah River National Laboratory**.
21. *Rapid Detection of Foodborne Pathogenic Bacteria Using Nanorods Array Surface Enhanced Raman Spectroscopy*, \$320,828, 01/09–12/12, **U.S. Department of Agriculture**.
22. *Understanding the Li⁺ Shuttling Processes in Si Nanorod Anodes and Optimizing the Li⁺ Battery Anodes*, \$498,832, 09/27/10–03/30/13, **US Army Research Laboratory W911NF-10-2-0107**.
23. *Smart Autonomous Nanomotors through Orthogonal Self-Assembly*, \$300,009, 08/09–07/13, **National Science Foundation ECCS-0901141**.
24. *Nanophotonic Biosensor Detection of Bioagents and Pathogens*, \$1,367,915, 01/01/2011–12/31/2013, **US Army Research Laboratory W911NF-11-2-0010**.
25. *Nanotechnology-Based Detection of Mycoplasma pneumonia*, \$275,000, 08/15/2012–08/14/2014, **National Institute of Health R21-AI096364**.
26. *NUE: UNITE - Undergraduate Nanotechnology Inquiry, Training, and Experimentation at the University of Georgia (UGA)*, \$200,000, 1/1/2013–12/31/2014, **National Science Foundation**.
27. *Rationally Designed Three-Dimensional Nanostructures for Surface Enhanced Raman Spectroscopy*, \$329,704, 10/01/10 – 03/31/15, **National Science Foundation ECCS-1029609**.
28. *Nanomotors for Thrombolytic Therapy after Stroke*, \$275,000, 03/01/2014 – 02/28/2016, **National Institute of Health R21 NS084148-01A1**.
29. *SERS Based Micro-Sensor Arrays for Quantitative miRNAs Detection*, \$409,999, 09/01/2011 – 08/31/2016, **National Science Foundation CBET-1064228**.
30. *Collaborative Research: Kinetics of Autonomous Catalytic Nanomotors in Confined and Crowded Environments*, \$359,930, 06/15/2013 – 06/14/2017, **National Science Foundation CBET- 1303134**.
31. *Technologies as Multiple Hurdles to Inactivate Shiga Toxin-Producing Escherichia coli and Viruses during Beef Processing and on Non-intact Beef*, \$4,990,000, 01/01/2011 – 12/31/2016, **U.S. Department of Agriculture 2011-68003-30012**.
32. *Template Based Fabrication of Three Dimensional Optical Metamaterials*, \$250,001, 08/01/2014 – 07/31/2018, **National Science Foundation CMMI-1435309**.
33. *Collaborative research: electric-field directed assembly of three-dimensional chiral metamaterials*, \$139,999, 08/01/2016 – 07/31/2019, **National Science Foundation ECCS-1609815**.

US PATENTS

12. Wilson Smith and Yiping Zhao, “*Photocatalytic structures, methods of making photocatalytic structures, and methods of photocatalysis*,” US Patent #8,975,205
11. Kun Yao, Manoj Manjare, Christopher Andrew Barrett, Tina Trnka Salguero, and Yiping Zhao, “*Functional nanostructured “jelly rolls” with nanosheet components*,” US Patent # 9,202,606
10. Yiping Zhao, Justin L. Abell, and Jing Chen, “*Thin layer chromatography-surfaced enhanced Raman spectroscopy chips and methods of use*,” US Patent #8,810,789.
9. Yiping Zhao and Xiaobing Du, “*Methods of melamine detection and quantification*,” US Patent #8,107,070.
8. R. A. Dluhy, R. A. Tripp, Y.-P. Zhao, and J. Driskell, “*Surface enhanced Raman spectroscopy (SERS) systems for the detection of viruses and methods of use thereof*,” US Patent #7,940,387.

7. Duncan C. Krause, Suzanne Marie Larkin Hennigan, Richard A. Dluhy, Jeremy Driskell, Yiping Zhao, and Ralph A. Tripp, “*Surface enhanced Raman spectroscopy (SERS) systems for the detection of bacteria and methods of use thereof*,” US Patent #7,889,334.
6. Yiping Zhao, Richard A. Dluhy, Ralph A. Tripp, Yao-wen Huang, Hsiao Yun Chu, and Liu, Yongjun, “*Methods of use for surface enhanced Raman spectroscopy (SERS) systems for the detection of bacteria*,” US Patent #7,880,876.
5. Y.-P. Zhao, R. A. Dluhy, R. A. Tripp, S. Chaney, and S. Shanmukh, “*Surface enhanced Raman spectroscopy (SERS) systems, substrates, fabrication thereof, and methods of use thereof*,” US Patent #7,738,096.
4. Y.-P. Zhao and J.-G. Fan, “*Structures having aligned nanorods and methods of making*,” US Patent #7,658,991.
3. Y.-P. Zhao and Y.-J. Liu, “*Fiber Optic SERS sensor systems and SERS probes*,” US Patent #7,656,525.
2. Y.-P. Zhao, R. A. Dluhy, R. A. Tripp, S. Chaney, and S. Shanmukh, “*Novel virus biosensors based on nanostructured SERS probes*,” US Patent #7,583,379.
1. Y.-P. Zhao, Y.-C. Chen, N. R. Raravikar, X.-C. Zhang, P. M. Ajayan, T.-M. Lu, and G.-C. Wang, “*An ultrafast all-optical switch using single-walled carbon nanotube polymer composites*,” US Patent #6,782,154.

LIST OF PUBLICATIONS

[Research ID A-4968-2008](#): Total Citation > 11048; H-index = 56

[Google Scholar](#): Total Citation > 15,000; H-index = 67

BOOKS

1. Y.-P. Zhao, G.-C. Wang, and T.-M. Lu, *Characterization of Amorphous and Crystalline Rough Surface - Principles and Applications* (Experimental Methods in the Physical Sciences, Vol. 37) (Academic Press, 2001).
2. Jin Zhong Zhang, Jinghong Li, Yat Li, and Yiping Zhao, *Hydrogen Generation, Storage, and Utilization* (John Wiley & Sons Inc., 2014)

BOOK CHAPTERS

7. Weijie Huang, Rui Cheng, Leidong Mao, and Yiping Zhao, "Active colloids: toward an intelligent micromachine" in "Anisotropic Particl Assemblies: Synthesis, Assembly, Modeling, and Applications" edited by Ning Wu, Daeyeon Lee, and Alverto Striolo (Elsevier, 2018).
6. Xiaomeng Wu, Jing Chen, Bosoon Park, Yao-Wen Huang, and Yiping Zhao, “*The Use of Silver Nanorod Array-Based Surface-Enhanced Raman Scattering Sensor for Food Safety Applications*,” in “*Advances in Applied Nanotechnology for Agriculture*” edited by Bosoon Park and Michael Appell, ACS Symposium Series, Vol. 1143 (American Chemical Society Publication, 2013). Chap. 5, pp. 85–108.
5. Justin L. Abell, Jeremy D. Driskell, Ralph A. Tripp, and Yiping Zhao, “*Current Progress on Surface-Enhanced Raman Scattering Chemical/Biological Sensing*,” in “*Functional Nanoparticles for Bioanalysis, Nanomedicine, and Bioelectronic Devices Volume 2*” edited by Maria Hepel and Chuan-Jian Zhong, ACS Symposium Series, Vol. 1113 (American Chemical Society Publication, 2012) Chap. 10, pp. 235–272.
4. J. D. Driskell, S. Shanmukh, Y. Liu, S. Chaney, S. Hennigan, L. Jones, D. Krause, R. A. Tripp, Y.-P. Zhao, and R. A. Dluhy, “*Novel nanoarray SERS substrates used for high sensitivity virus biosensing*”

- and classification,” in “*Nanoscience and Nanotechnology for Chemical and Biological Defense*” edited by R. Nagarajan, Walter Zukas, T. Alan Hatton and Stephen Lee (American Chemical Society Publication, 2010) Chap. 8.
3. Y.-P. Zhao and R. A. Tripp, “*Spherical and Anisotropic Silver Nanomaterials in Medical Diagnosis*” in “*Metallic Nanomaterials*” Vol. 1, edited by Challa S. S. R. Kumar (Wiley-VCH, 2009), Chap. 5, pp.173-224.
 2. J. Gibbs and Y.-P. Zhao, “*Catalytic Nanomotors*,” in “*Design of Heterogeneous Catalysts: New Approaches based on Synthesis, Characterization and Modeling*” edited by Umit S. Ozkan (Wiley-VCH, 2009), Chap. 6, pp. 141-160.
 1. Y.-P. Zhao, “*Growth and Synthesis of Nanostructured Thin Films*,” in “*Functional Thin Films and Nanostructures for Sensors*” edited by A. Zribi and J. Fortin (Springer, 2009), Chap. 3, pp.31-64.

JOURNAL PAPERS

284. Hoang Luong, Minh Pham, Tho Nguyen, and Yiping Zhao, “*Magneto-Plasmonic Properties of Ag-Co Composite Nano-triangle Arrays*,” *Nanotechnology* **30**, 425203 (2019).
283. Hoang Mai Luong, Minh Pham, Bin Ai, Tho Duc Nguyen, and Yiping Zhao, “*Magnetoplasmonic properties of Ag-Co composite nanohole arrays*,” *Phys. Rev. B* **99**, 224413 (2019).
282. Pradip Basnet, Erik Anderson, and Yiping Zhao, “*Hybrid CuxO-TiO2 nanopowders prepared by ball milling for solar energy conversion and visible-light-induced wastewater treatment*,” *ACS Applied Nano Material* **2**, 2446-2455 (2019).
281. Steven Larson, Hoang Luong, Chunyuan Song, and Yiping Zhao, “*Dipole radiation induced extraordinary optical transmission for Silver nanorods covered Silver nanohole arrays*,” *J. Phys. Chem. C* **123**, 5634-5641 (2019).
280. Steven Larson, Daniel Carlson, Bin Ai, and Yiping Zhao, “*The extraordinary optical transmission and sensing properties of Ag/Ti composite nanohole arrays*,” *Phys. Chem. Chem. Phys.* **21**, 3771-3780 (2019).
279. Steven Larson, Zilan Yang, and Yiping Zhao, “*Improving LSPR sensing performance using multilayered composition graded Ag-Cu nanotriangle arrays*,” *Chem. Comm.* **55**, 1342-1344 (2019).
278. L. Zhu, W. Huang, F. Yang, L. Yin, S. Liang, W. Zhao, L. Mao, X. Yu, R. Qiao, and Y. Zhao, “*Manipulation of single cells using a ferromagnetic nanorod cluster actuated by weak AC magnetic fields*,” *Adv. Biosystems*, DOI: 10.1002/adbi.201800246 (2019).
277. Bin Ai and Yiping Zhao, “*Glancing angle deposition meets colloidal lithography: a new evolution in the design of nanostructures*,” *Nanophotonics*, DOI: 10.1515/nanoph-2018-0105 (2018).
276. Jiangnan Hu, Shengwei Huang, Lu Zhu, Weijie Huang, Yiping Zhao, Kunlin Jin, Qichuan ZhuGe, “*Tissue plasminogen activator-porous magnetic microrods for targeted thrombolytic therapy after ischemic stroke*,” *ACS Appl. Mater. Interfaces* **10**, 32988 - 32997 (2018).
275. Bin Ai, Chunyuan Song, Layne Bradley, and Yiping Zhao, “*Strong Fano resonance excited in an array of nanoparticle-in-ring nanostructures for dual plasmonic sensor applications*,” *J. Phys. Chem. C* **122**, 20935 - 20944 (2018).
274. Caiqin Han, Dexian Ye, Yiping Zhao, and Junxue Fu, “*Physical vapor deposition of Ag nanoparticles through shadowing and re-emission effects*,” *J. Vac. Sci. Technol. B* **36**, 051802 (2018).
273. Bin Ai, Steven Larson, Layne Bradley, and Yiping Zhao, “*A flexible strategy to fabricate gradient plasmonic nanostructures*,” *Advanced Materials Interfaces*, DOI: 10.1002/admi.201800975 (2018).

272. Hoang Mai Luong, Bin Ai, Yiping Zhao, Tho Duc Nguyen, "Weak enhanced resonant Faraday rotation in pure cobalt plasmonic lattices: Thickness dependent Faraday rotation studies," Journal of Magnetism and Magnetic Materials **468**, 79 - 84 (2018).
271. Rui Cheng, Lu Zhu, Weijie Huang, Leidong Mao, and Yiping Zhao, "Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields," Journal of Physics: Condensed Matter **30**, 315101 (2018).
270. Hong-Kai Dai, Cheng-Bei Xie, Hui-Chao Liang, Lin-Yong Qian, Cai-Qin Han, Chang-Chun Yan, and Yi-Ping Zhao, "Growth and optical properties of Ag-Ti composite nanorods based on oblique angle co-deposition technique," Optics Express **26**, 12022 - 12037 (2018).
269. Liuyang Zhang, Lu Zhu, Steven R. Larson, Yiping Zhao, and Xianqiao Wang, "Layer-by-layer assembly of nanorods on a microsphere via electrostatic interactions," Soft Matter **14**, 4541 - 4550 (2018).
268. Hong-Feng Wang, Jun-Xian Shi, Lin-Yong Qian, Chang-Chun Yan, Cai-Qin Han, and Yi-Ping Zhao, "Large-area broadband optical absorber fabricated by shadowing sphere lithography," Optics Express **26**, 7507 - 7515 (2018).
267. Steven R Larson and Yiping Zhao, "The localized surface plasmonic resonance and sensing properties of Ag-MgF₂ composite nanotriangles," J. Phys. Chem. C **122**, 7374 - 7381 (2018).
266. Yizhuo He, Xinghai Wang, Whitney Ingram, Bin Ai, and Yiping Zhao, "Optimized Fan-shaped Chiral Metamaterial as an Ultrathin Narrow-band Circular Polarizer at Visible Frequencies," Nanotechnology **29**, 095301 (2018).
265. Connor Skehan, Bin Ai, Steven Larson, Keenan Stone, William Dennis, and Yiping Zhao, "Plasmonic and SERS Performances of Compound Nanohole Arrays Fabricated by Shadow Sphere Lithography," Nanotechnology **29**, 095301 (2018).
264. Hansol Lee, Jaya Sundaram, Lu Zhu, Yiping Zhao, and SudhagarMani, "Improved thermal stability of cellulose nanofibrils using low-concentration alkaline pretreatment," Carbohydrate Polymers **181**, 506 - 513 (2018).
263. Bin Ai, Pradip Basnet, Steven Larson, Whitney Ingram, and Yiping Zhao, "Plasmonic sensor with high figure of merit based on differential polarization spectra of elliptical nanohole array," Nanoscale **9**, 14710 - 14721 (2017).
262. Liuyang Zhang, Yiping Zhao, and Xianqiao Wang, "Nanoparticle-Mediated Mechanical Destruction of Cell Membranes: A Coarse-Grained Molecular Dynamics Study," ACS Appl. Mater. Interfaces **9**, 26665-26673 (2017).
261. Jing Chen, Bosoon Park, Yao-wen Huang, Yiping Zhao, and Yongkuk Kwon, "Label-free SERS detection of Salmonella Typhimurium on DNA aptamer modified AgNR substrates," Journal of Food Measurement and Characterization **11**, 1773-1779 (2017).
260. Weijie Huang, Fengchang Yang, Lu Zhu, Rui Qiao, and Yiping Zhao, "Manipulation of magnetic nanorod clusters in liquid by non-uniform alternating magnetic fields," Soft Matter **13**, 3750 - 3759 (2017).
259. Caiqin Han, Yue Yao, Wen Wang, Lulu Qu, Layne Bradley, Shulin Sun, and Yiping Zhao, "Rapid and Sensitive Detection of Sodium Saccharin in Soft Drinks by Silver Nanorod Array SERS Substrates," Sensors and Actuators B **251**, 272 - 279 (2017).
258. Caiqin Han, Yuqi Li, Qin Jia, Layne Hyer Bradley, Yun Gan, Yue Yao, Lulu Qu, Haitao Li, and Yiping Zhao, "On-demand fabrication of surface-enhanced Raman scattering arrays by pen writing, and their application to the determination of melamine in milk," Microchimica Acta **184**, 2909 - 2917 (2017)

257. Fengchang Yang, Manoj Manjare, Yiping Zhao, Rui Qiao, “*On the Peculiar Bubble Formation, Growth, and Collapse Behaviors in Catalytic Micromotor Systems,*” *Microfluidics and Nanofluidics* **21**, 1-11 (2017).
256. Whitney Ingram, Steven Larson, Daniel Carlson, and Yiping Zhao, “*Ag-Cu mixed phase plasmonic nanostructures fabricated by shadow nanosphere lithography and glancing angle co-deposition,*” *Nanotechnology* **28**, 015301 (2017).
255. Lu Zhu, Weijie Huang, Zachary S. Rinehart, Jason Tam, and Yiping Zhao, “*Multifunctional Iron Oxide – Carbon Hybrid Microrods,*” *RSC Advance* **6**, 98845-98853 (2016).
254. Rui Cheng, Lu Zhu, Weijie Huang, Leidong Mao, and Yiping Zhao, “*Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field,*” *Soft Matter*, **12**, 8440-8447 (2016).
253. Yanjun Yang, Chunyuan Song, Boyue Yang, Youzhi Sun, Yiping Zhao, and Lianhui Wang, “*Ultrasensitive SERS sensor for simultaneous detection of multiple cancer-related miRNAs,*” *Nanoscale* **8**, 17365-17373 (2016).
252. Jie Cheng, Xiao-Ou Su, Shi Wang, and Yiping Zhao, “*Highly sensitive detection of Clenbuterol in animal urine using immunomagnetic bead treatment and surface-enhanced Raman spectroscopy,*” *Scientific Reports* **6**, 32637 (2016).
251. Whitney Ingram, Yizhuo He, Dexian Ye, Keenan Stone, William Dennis, and Yiping Zhao, “*Tuning the plasmonic properties of Silver nanopatterns fabricated by shadow nanosphere lithography,*” *Nanotechnology* **27**, 385301 (2016).
250. Steven Larson, Weijie Huang, and Yiping Zhao, “*Combinatorial fabrication of composite nanorods using oblique angle co-deposition,*” *Nanotechnology* **27**, 365304 (2016).
249. Jitto Titus, George Larsen, Yiping Zhao, and A. G. Unil Perera, “*Large circular dichroism and optical rotation in titanium doped chiral silver nanorods,*” *Annalen der Physik*, DOI: 10.1002/andp.201600103 (2016).
248. Layne Bradley, George Larsen, and Yiping Zhao, “*Designed to fail – flexible, anisotropic Silver nanorod sheets for low-cost wireless activity monitoring,*” *Journal of Physical Chemistry C* **120**, 14969 - 14976 (2016).
247. Jie Cheng, Xiao-Ou Su, Yue Yao, Caiqin Han, Shi Wang, and Yiping Zhao, “*Highly sensitive detection of Melamine using a one-step sample treatment combined with a portable Ag nanostructure array SERS sensor,*” *PLoS ONE* **11**, e0154402. DOI:10.1371/journal.pone.0154402 (2016).
246. Fengchang Yang, Shizhi Qian, Yiping Zhao, and Rui Qiao, “*Self-diffusiophoresis of Janus catalytic micromotors in confined geometries,*” *Langmuir* **32**, 5580-5592 (2016).
245. Layne Bradley and Yiping Zhao, “*Uniform plasmonic response of colloidal Ag patchy particles prepared by swinging oblique angle deposition,*” *Langmuir* **32**, 4969 - 4974 (2016).
244. Jiangnan Hu, Weijie Huang, Shengwei Huang, Qichuan ZhuGe, Kunlin Jin, and Yiping Zhao, “*Magnetically active Fe₃O₄ nanorods loaded with tissue Plasminogen activator for enhanced thrombolysis,*” *Nano Research* **9**, 2652 - 2661 (2016).
243. Steven Larson and Yiping Zhao, “*Tuning the composition of Bi₂WO₆ nanorods towards zero bias PEC water splitting,*” *Nanotechnology* **27**, 255401 (2016).
242. Lu Zhu, Pradip Basnet, Steven R. Larson, Les P. Jones, Jane Y. Howe, Ralph A. Tripp, and Yiping Zhao, “*Visible light-induced photoelectrochemical and antimicrobial properties of hierarchical CuBi₂O₄ by facile hydrothermal synthesis,*” *ChemistrySelect* **1**, 1518-1524 (2016).

241. Mohammed Meziani, Xiuli Dong, Lu Zhu, Les Jones, Gregory LeCroy, Fan Yang, Shengyuan Wang, Ping Wang, Yiping Zhao, Liju Yang, Ralph Tripp, and Ya-Ping Sun, “Visible-light-activated bactericidal functions of carbon quantum dots,” *ACS Applied Materials & Interfaces* **8**, 10761 - 10766 (2016).
240. F. Chen, B. R. Flaherty, C. E. Cohen, D. S. Peterson, and Y. Zhao, “Direct detection of malaria infected red blood cells by surface enhanced Raman spectroscopy,” *Nanomedicine: Nanotechnology, Biology, and Medicine* **12**, 1445-1451 (2016).
239. Kun Yao, Pradip Basnet, Henry Sessions, Simona E. Hunyadi Murph, and Yiping Zhao, “Fe₂O₃-TiO₂ core-shell nanorod arrays for visible light,” *Catalysis Today* **270**, 51-58 (2016).
238. Yizhuo He, Keelan Lawrence, Whitney Ingram and Y.-P. Zhao, “Circular dichroism based refractive index sensing using chiral metamaterials,” *Chem. Commun.* **52**, 2047-2050 (2016).
237. Xiaomeng Wu, Caiqin Han, Jing Chen, Yao-wen Huang, and Yiping Zhao, “Rapid detection of pathogenic bacteria from fresh produce by filtration and surface enhanced Raman spectroscopy,” *JOM* **68**, 1156-1162 (2016).
236. Pradip Basnet and Yiping Zhao, “Tuning the CuxO nanorod composition for efficient visible light induced photocatalysis,” *Catalysis Science & Technology* **6**, 2228-2238 (2016).
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SEMINARS & COLLOQUIUMS

129. "Improving the performance of LSPR sensors," School of Physics and Electronic Engineering, Jiangsu Normal University, China, 07/31/19
128. "Functional Magnetic Nanomotors to Improve Ischemic Stroke Treatment," Department of Physics, Applied Physics & Astronomy, Rensselaer Polytechnic Institute, 09/19/18
127. "Magnetic Nanomotors to Improve Stroke Treatment," Department of Physics & Astronomy, the University of Georgia, 08/30/18
126. "Advanced Nanofabrication and Applications by Glancing Angle Deposition," Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China, 06/07/18.
125. "Designing Plasmonic Structures by Nanosphere Shadowing Lithography," Institute of Advanced Materials, Nanjing University of Posts and Telecommunications, China, 06/05/18.
124. "Towards Practical SERS Sensing," College of Communication Engineering, Chongqing University, China, 05/28/18.
123. "Magnetic Nanomotors to Improve Stroke Treatment," School of Electronics Engineering & Computer Science, Peking University, China 05/24/18
122. "Glancing Angle Deposition for Plasmonics," Department of Physics & Astronomy, University of Georgia, 04/06/18.
121. "The Applications of Nanotechnology for Food Safety," College of Food Science & Nutritional Engineering, China Agricultural University, China, 06/26/17.
120. "Optical Chiral Metamaterials," Department of Physics and Astronomy, UGA, 08/18/16
119. "Functional Nanomaterials Fabricated by Dynamic Shadowing Growth," School of Physics, Sichuan University, China, 5/25/16
118. "Optical Bio-Sensors and Chiral Metamaterials," Department of Physics, Southwestern Jiatong University, China, 5/24/16
117. "Functional Nanomaterials Fabricated by Dynamic Shadowing Growth," Hunan University, China, 5/23/16
116. "Optical Bio-Sensors and Chiral Metamaterials," National University of Defense Technology, China, 5/23/16
115. "Optical Bio-Sensors and Chiral Metamaterials," Department of Mechanical Engineering, University of North Carolina, 11/19/15
114. "Optical Bio-Sensors and Chiral Metamaterials," Department of Physics, University of Texas Arlington, 5/7/15

113. “*SERS Sensors for Food Safety Applications*,” Jiangsu Academy of Agricultural Sciences, China, 01/26/15
112. “*Desired Skills for Graduate Students – A Personal View*,” School of Physics and Electronic Engineering, Jiangsu Normal University, China, 01/23/15
111. “*SERS Sensors for Medical Diagnostics, Food Safety, and Environmental Detection*,” School of Physics and Electronic Engineering, Jiangsu Normal University, China, 01/22/15
110. “*SERS Sensors for Food Safety Applications*,” Beijing Entry-Exit Inspection and Quarantine Bureau, China, 1/21/15
109. “*SERS Sensors for Medical Diagnostics, Food Safety, and Environmental Detection*,” Academy of Military Medical Sciences, China, 1/20/15
108. “*SERS Sensors for Food Safety Applications*,” College of Food Sciences, Southwestern University, China, 1/19/15
107. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” Department of Physics and Astronomy, Georgia State University, 11/18/14
106. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” Department of Mechanical Engineering, University of Minnesota, 10/22/14
105. “*The Applications of Nanotechnology for Biomedical Diagnostics and Disease Treatment*,” Department of Infectious Diseases, University of Georgia, 10/09/14
104. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” School of Physics and Electronic Engineering, Jiangsu Normal University, China 06/06/14
103. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” School of Physics and Electronics, Shangdong Normal University, China, 06/05/14
102. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” Institute of Advanced Materials, Nanjing University of Posts and Telecommunications, China, 06/03/14
101. “*Functional Nanomaterials Fabricated by Dynamic Shadowing Growth*,” School of Physics & Information Technology, Shaanxi Normal University, China, 05/22/14
100. “*The PhD Skills – A personal view*,” Department of Physics & Astronomy, University of Georgia, 10/24/13
99. “*Advanced Fabrication of Heteronanorods and Composite Nanorods by Dynamic Shadowing Growth*,” School of Chemical Engineering and Environment, Beijing Institute of Technology, 6/19/13
98. “*Advanced Fabrication of Heteronanorods and Composite Nanorods by Dynamic Shadowing Growth*,” School of Materials Science and Engineering, Tsinghua University, China, 6/18/13
97. “*Towards Practical SERS Sensing*,” Department of Materials Science and Engineering, Peking University, China, 6/17/13
96. “*Disease Diagnostics and Food Safety Monitoring by Surface Enhanced Raman Scattering*,” School of Materials Science and Engineering, Tsinghua University, China, 6/14/13
95. “*Towards Practical SERS Sensing*,” College of Physics, Southwestern University, China, 6/4/13
94. “*Advanced nanofabrication by glancing angle deposition*,” Department of Physics, Beihang University, China, 5/29/13
93. “*The PhD Skills – A personal view*,” UGA NanoSEC, University of Georgia, 2/1/13
92. “*Advanced nanofabrication by glancing angle deposition*,” Chemistry Division, National Institute of Standard, 4/27/12
91. “*Towards Practical SERS Sensing*,” Department of Biomedical Engineering, The Catholic University of America, 4/23/12

90. “*Towards Practical SERS Sensing*,” School of Physics & Information Technology, Shaanxi Normal University, China, 4/11/12
89. “*Towards Practical SERS Sensing*,” Department of Electric Engineering, Southeast University, China, 4/1/12
88. “*Catalytic Nanomotors: Challenges and Opportunities*,” Department of Chemistry, Tsinghua University, China, 3/30/12
87. “*Towards Practical SERS Sensing*,” Department of Materials Science and Engineering, Tsinghua University, China, 3/29/12
86. “*Advanced nanofabrication by glancing angle deposition*,” Army Research Laboratory, Adelphi, MD 3/23/12
85. “*Towards Practical SERS Sensing*,” Center for Diagnostics and Therapeutics, Georgia State University, 11/21/11
84. “*Catalytic Nanomotors: Challenges and Opportunities*,” Department of Mechanical Engineering, Clemson University, 11/11/11
85. “*Advanced nanofabrication by glancing angle deposition*,” MEMS Summer Camp, Peking University, China, 7/28/11
83. “*Advanced nanofabrication by glancing angle deposition*,” Shanghai Institute of Ceramics, Chinese Academy of Sciences, China, 9/28/10
82. “*Advanced nanofabrication by glancing angle deposition*,” Department of Chemistry, Fudan University, China, 9/28/10
81. “*Advanced nanofabrication by glancing angle deposition*,” the Institute for Advanced Materials & Nano Biomedicine, Tongji University, China, 9/27/10
80. “*Advanced nanofabrication by glancing angle deposition*,” College of Materials Science, Shanghai University, China, 9/21/10
79. “Nano-Structured Materials: Current and Future applications,” UGA Engineering Seminar, 9/2/10
78. “*Catalytic nanomotors: opportunities and challenges*,” Department of Materials Science and Engineering, Tsinghua University, China, 6/21/10
77. “*Catalytic nanomotors: opportunities and challenges*,” Institute of Microelectronics, Peking University, China, 6/20/10
76. “*Advanced nanofabrication by glancing angle deposition*,” College of Materials Science, Beijing Institute of Technology, China, 6/18/10
75. “*Advanced nanofabrication by glancing angle deposition*,” Institute of High Energy Physics, Chinese Academy of Science, China, 6/17/10
74. “*Catalytic nanomotors: opportunities and challenges*,” Graduate School, Chinese Academy of Science, China, 6/17/10
73. “*Surface enhanced Raman scattering from Ag nanorod array*,” Department of Physics, Southwestern Jiatong University, China, 6/7/10
72. “*Catalytic nanomotors: opportunities and challenges*,” Department of Physics, Southwestern Jiatong University, China, 6/7/10
71. “*Advanced nanofabrication by glancing angle deposition*,” Department of Physics, Southwestern Jiatong University, China, 6/7/10
70. “*Catalytic nanomotors: opportunities and challenges*,” College of Physics, Southwestern University, China, 6/4/10
69. “*Nanoscience at UGA: The Next Big Thing*,” Monroe Rotary club, 3/20/10
68. “*Nanoscience at UGA: The Next Big Thing*,” UGA Golf Court, 3/16/10

67. “*Advanced nanofabrication by glancing angle deposition,*” UGA NanoSEC, 2/5/10
66. “*Catalytic nanomotors: opportunities and challenges,*” Georgia Tech Nanotechnology Research Center, 1/27/10
65. “*The biological and energy applications of nanostructures fabricated by glancing angle deposition,*” UGA Engineering Seminar, 9/3/09
64. “*Catalytic nanomotors: opportunities and challenges,*” UGA NanoSEC, 8/28/09
63. “*The applications of nanostructures fabrication by dynamic shadowing growth*”, Savannah River National Lab, 6/10/09
62. “*Surface Enhanced Raman Scattering from Ag Nanorods,*” Department of Physics and Astronomy, University of Georgia, 9/18/08
61. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Department of Physics, University of Texas - Arlington, 9/3/08
60. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Jilin University, China, 6/18/08
59. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Peking University, China, 6/17/08
58. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Tsinghua University, China, 6/16/08
57. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Southwestern University, China, 6/6/08
56. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” GE Global Research Center, 3/27/08
58. “*Nanostructures fabricated by glancing angle deposition and their novel applications,*” Department of Physics, Applied Physics and Astronomy, Rensselaer Polytechnic Institute, 3/26/08
57. “*Designing nanostructures by glancing angle deposition,*” Department of Chemical Engineering, Lamar University, 3/18/08
56. “*Designing nanostructures by glancing angle deposition,*” Department of Mechanical Engineering, State University of New York - Binghamton, 12/7/07
55. “*Designing nanostructures by glancing angle deposition,*” Department of Mechanical Engineering and Department of Physics, Florida Institute of Technology, 10/26/07
54. “*GLAD at the nano-bio interface,*” Xiamen University, China, 9/27/07
53. “*GLAD at the nano-bio interface,*” Chongqing University, China, 9/2/07
52. “*Nanotechnology for better life,*” Monroe Rotary Club, 8/13/07
51. “*Aligned Silver nanorod array as SERS substrates for viral sensing,*” University of Missouri, 3/21/06
50. “*Sculptured nanostructures and their applications in chemical/biological sensors and hydrogen storage materials,*” Savannah River National Laboratory, 3/8/06
49. “*Nanotechnology and its applications in biology,*” Department of Plant Biology, University of Georgia, 11/14/05
48. “*Designing nanostructures for sensor applications,*” Department of Chemistry, University of California – Santa Cruz, 9/28/05
47. “*Designing nanostructures for sensor applications,*” Department of Electronics, Beijing University, 6/15/05
46. “*Nano-carpet effect: the wetting of vertically aligned Si nanorod arrays,*” Graduate School, Chinese Academy of Science, 6/14/05

45. "*Designing nanostructures for sensor applications*," Graduate School, Chinese Academy of Science, 6/14/05
44. "*Monte Carlo simulation of polymer thin film growth*," Department of Physics, Zhejiang University, 6/7/05
43. "*Nano-carpet effect: the wetting of vertically aligned Si nanorod arrays*," Department of Physics, Zhejiang University, 6/6/05
42. "*Designing nanostructures for sensor applications*," Department of Physics, Zhejiang University, 6/3/05
41. "*Nanotechnology: from fantasy to reality*," Department of Physics, Zhejiang University, 6/2/2005
40. "*Nanotechnology: from fantasy to reality*," Athens Academy, 3/31/2005
39. "*Behind the nanolab*," Department of Physics and Astronomy, UGA 3/24/05
38. "*Designing nanostructures for sensor applications*," Army Research Laboratory, 3/21/05
36. "*Designing nanostructures for sensor applications*," Department of Mechanical Engineering, Georgia Institute of Technology, 3/17/2005
35. "*Designing nanostructures for sensor applications*," General Electric R&D Center, 1/27/2005
34. "*Nanotechnology: from fantasy to reality*," Department of Physics and Astronomy, UGA 9/2/2004
33. "*Fabricating novel nanostructures by glancing angle deposition*," Department of Biological and Agricultural Engineering, UGA 8/30/04
32. "*Monte Carlo simulation of polymer thin film growth: Part II*," The Center for Simulational Physics, University of Georgia, 6/04
31. "*Monte Carlo simulation of polymer thin film growth: Part I*," The Center for Simulational Physics, University of Georgia, 5/04
30. "*Introduction to nanotechnology*," Cedar High School, Athens, GA, 05/04
29. "*Designing nanostructures by glancing angle deposition*," NanoNet, Oklahoma State University, 4/04
28. "*Terahertz spectroscopy of novel nanostructures*," University of Hawaii Terahertz Workshop 2004, Hawaii, 1/04
27. "*How can we bridge Nano- and Bio-technology at UGA?*" BHSI, UGA, 12/03.
26. "*Sculptured nanostructures by glancing angle deposition and their applications*," Department of Chemistry, Clemson University, 9/03
25. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," Department of Physics, Clemson University, 3/03
24. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," Department of Physics, Emory University, 10/4/02
23. "*Sculptured Nanostructures by Glancing Angle Deposition*," Department of Physics and Astronomy, University of Georgia, 10/2/02
22. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," College of Physics, Sichuan University, China, 5/20/02
21. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," Department of Materials Science and Engineering, Tsinghua University, China, 5/10/02
20. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," Department of Physics, Peking University, China, 5/8/02
19. "*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications*," Department of Physics and Astronomy, University of Georgia, 2/14/02

18. “*Understanding growth/etching mechanisms from surface morphological evolution,*” Department of Physics and Astronomy, University of Iowa, 2/12/02
17. “*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications,*” Department of Physics and Astronomy, University of Iowa, 2/11/02
16. “*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications,*” Department of Physics, University of Southern Illinois, 2/7/02
15. “*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications,*” Advanced Materials Institute, University of New Orleans, 1/28/02
14. “*From rough surfaces to nanostructures: thin film growth mechanisms and their applications in novel nanostructure fabrications,*” Department of Physics, University of Louisville, 1/14/02
13. “*Sculptured nanostructures by glancing angle deposition and their applications,*” General Electric R&D Center, 11/01/01
12. “*Growth mechanism and morphology of films produced by vapor deposition polymerization,*” Physics Department, University of Rochester, 9/26/01
11. “*Understanding growth/etching mechanisms from surface morphological evolution,*” Department of Physics, State University of New York at Albany, 4/20/01
10. “*Understanding growth/etching mechanisms from surface morphological evolution,*” Department of Physics, University of Cincinnati, 2/22/01
9. “*Understanding growth/etching mechanisms from surface morphological evolution,*” Department of Physics and Astronomy, University of Oklahoma, 2/19/01
8. “*Understanding growth/etching mechanisms from surface morphological evolution,*” Department of Materials Science and Engineering, Rensselaer Polytechnic Institute, 1/11/01
7. “*Light scattering from random rough surfaces,*” Advanced Products Division, MTI Mechanical Technology Inc., 12/28/00
6. “*Roughening mechanisms for plasma etch front and chemical vapor deposition growth fronts,*” Department of Physics, University of Toledo, 11/3/00
5. “*Growth mechanism and morphology of films produced by vapor deposition polymerization,*” Physics Department, Rensselaer Polytechnic Institute, 9/11/00
4. “*Roughening mechanisms for plasma etch front and chemical vapor deposition growth fronts,*” Physics Department, University of Minnesota, 6/9/00
3. “*Diffraction from random rough surfaces,*” Material Science Seminar, Harvard University, 5/13/99
2. “*Diffraction from random rough surfaces,*” Physics Department, Cornell University, 3/18/99
1. “*Diffraction from random rough surfaces,*” General Electric R&D Center, 1/28/99

CONFERENCES (Not a Complete List)

108. Steve Larson and Yiping Zhao, “*Improving the performance of LSPR sensors by composite plasmonic nanostructures,*” the 2019 OSA Optical Sensors and Sensing Congress, Jun. 25-27, 2019 (San Jose, CA)
107. Yiping Zhao, “*Designing regular nanostructures by nanosphere shadowing lithography,*” invited talk, 70th Southeastern Regional ACS Meeting, Oct. 31-Nov. 1, 2018 (Augusta, GA).
106. Yiping Zhao, “*When glancing angle deposition meets with colloidal lithography,*” invited talk, 2018 NanoScientific Symposium US – Albany, USA-Park Systems, Sept. 18 - 20, 2018 (Albany, NY).

105. Yiping Zhao, “*Advanced Nanofabrication and Applications by Glancing Angle Deposition,*” planetary talk, International Conference on Sculptured Thin Films, March 30 - 31, 2018 (New Delhi, India).
104. Yiping Zhao, “*Combining dynamic shadowing growth and colloidal monolayer to design plasmonic metamaterials,*” invited talk, AVS 64th International Symposium and Exhibition, October 29- November 3, 2017 (Tampa, FL).
103. Yiping Zhao, “*Magnetic Nanomotors to Improve Stroke Treatment,*” invited talk, International Conference on Micro/Nanomachines, August 25 - 28, 2017 (Wuhan, China).
102. Yiping Zhao, Yizhuo He, and Bin Ai, “*Designing plasmonic Structures by nanosphere shadowing lithography,*” invited talk, OSA Advanced Photonics 2017, July 24 - 27, 2017 (New Orleans, Louisiana).
101. Yiping Zhao, “*MicroRNA detection by surface enhanced Raman scattering,*” invited talk, 254th American Chemical Society National Meeting & Exposition, August 20 - 24, 2017 (Washington D.C).
100. S. Larson, W.J. Huang, Yiping Zhao, “*Combinatorial Fabrication of Composite Nanostructures by Oblique Angle Co-Deposition,*” invited talk, 2017 TMS Annual Meeting & Exhibition, February 26 – March 2, 2017 (San Diego, California)
99. Weijie Huang, J.N. Hu, S.W. Huang, K.L. Jin, Y.P. Zhao, “*tPA Loaded Fe₃O₄ Nanorods to Enhance and Target Stroke Treatment,*” AVS 63th International Symposium and Exhibition, November 6-11, 2016 (Nashville, TN).
98. S. Larson, W.J. Huang, Yiping Zhao, “*Combinatorial Fabrication of Cu-Fe₂O₃ Composite Nanostructures by Oblique Angle Co-Deposition,*” AVS 63th International Symposium and Exhibition, November 6-11, 2016 (Nashville, TN).
97. Yizhuo He and Yiping Zhao, “*Designing large scale chiral metamaterials by nanosphere shadowing lithography,*” Aug 30 -Sept. 1, 2016 SPIE Optics & Photonics Annual Meeting (San Diego, CA).
96. Whitney M. Ingram, Yizhuo He, Keenan Stone, Quiju Zhang, William M. Dennis, Dexian Ye, and Yiping Zhao, “*Plasmonic properties of nanopatterns fabricated by nanosphere shadowing lithography,*” Aug 30 -Sept. 1, 2016 SPIE Optics & Photonics Annual Meeting (San Diego, CA).
95. George Larsen, Weijie Huang, Will Farr, Yiping Zhao, and Simona Murph, “*Iron oxide-based nanoparticles and their photothermal applications,*” Aug 30 -Sept. 1, 2016 SPIE Optics & Photonics Annual Meeting (San Diego, CA).
94. Yiping Zhao, “*Detecting Bacteria by Surface Enhanced Raman Spectroscopy,*” invited talk, Mar. 15-19, 2015, 2015 TMS Annual Meeting & Exhibition (Orlando, FL).
93. Jing Chen, Xiaomeng Wu, Yao-wen Huang, and Yiping Zhao, “*Silver Nanorod Filters for Rapid On-Chip Pre-Concentration and SERS Sensing of Whole Cells,*” SPIE Defense, Security and Sensing, May 5-9, 2012 (Baltimore, Maryland).
92. Xiaomeng Wu; Jing Chen; Yiping Zhao; Susu M. Zughaier “*Rapid detection of Pseudomonas aeruginosa biomarkers in biological fluids using surface-enhanced Raman scattering,*” SPIE Defense, Security and Sensing, May 5-9, 2012 (Baltimore, Maryland).
91. Jing Chen, Justin Abell, Yao-wen Huang, and Yiping Zhao “*Ultra-thin layer chromatography and surface enhanced Raman spectroscopy on silver nanorod array substrates prepared by oblique angle deposition,*” SPIE Defense, Security and Sensing, April 23-27, 2012 (Baltimore, Maryland).

90. Yiping Zhao, “*Toward practical SERS sensing*,” invited talk, SPIE Defense, Security and Sensing, April 23-27, 2012 (Baltimore, Maryland).
89. Chunyuan Song, Jeremy D. Driskell, Ralph A. Tripp, Yiping Cui, and Yiping Zhao, “*The use of a handheld Raman system for virus detection*,” SPIE Defense, Security and Sensing, April 23-27, 2012 (Baltimore, Maryland).
88. Yiping Zhao, “*Designing Three-Dimensional Silver Nanorod Arrays for Surface Enhanced Raman Scattering Applications*,” invited talk, the 2nd International Conference on Frontiers of Plasmonics, April 8-12, 2012 (Sichuan University, Chendu, China).
87. Qun Zhao, Jason Langley, Joonsang Lee, Justin Abell, and Yiping Zhao, “*Bioimaging and biospectra analysis by means of independent component analysis: experimental results*,” SPIE Defense, Security and Sensing, April 25-29, 2011 (Orlando, Florida).
86. Justin Abell, J. Lee, Q. Zhao, and Y.-P. Zhao, “*New Approaches to Distinguish Components From a Mixture Using Surface-Enhanced Raman Scattering*,” Nano-Devices for Defense and Security, August 29-September 1, 2011 (Brooklyn, New York).
85. Y.-P. He and Y.-P. Zhao, “*Heterogeneous Nanorod Arrays Fabrication by a Two-Source Dynamic Shadowing Growth System*,” AVS 58th International Symposium and Exhibition, October 30-November 4, 2011 (Nashville, TN).
84. John Gibbs and Yiping Zhao, “*Catalytic Nanomotor Control: Design Techniques Using Dynamic Shadowing Growth*,” AVS 58th International Symposium and Exhibition, October 30-November 4, 2011 (Nashville, TN).
83. George Larsen, R. Fitzmorris, J.Z. Zhang, and Y.-P. Zhao, “*Fabrication of Cr-doped TiO₂ Nanorod Arrays by Oblique Angle Co-deposition and Their Photocatalytic Properties*,” AVS 58th International Symposium and Exhibition, October 30-November 4, 2011 (Nashville, TN).
82. Yongjun Liu and Yiping Zhao, “*The Silver Nanorod Array SERS Substrates*,” invited talk, ICORS August 8-13, 2010 (Boston, MA).
81. Wilson Smith and Yiping Zhao, “*Hetero-structured nano-photocatalysts fabricated by dynamic shadowing growth*,” SPIE Optics + Photonics, August 1-5, 2010 (San Diego, CA).
80. Yongjun Liu and Yiping Zhao, “*Surface-enhanced Raman scattering characterization of Ag nanorod arrays fabricated by oblique angle deposition*,” SPIE Optics + Photonics, August 1-5, 2010 (San Diego, CA).
79. Junxue Fu and Yiping Zhao, “*Optical properties of silver/gold nanostructures fabricated by shadowing growth and their sensing applications*,” invited talk, SPIE Optics + Photonics, August 1-5, 2010 (San Diego, CA).
78. J. Gibbs and Y.-P. Zhao, “*Designing catalytic nanomotors by dynamic shadowing growth*,” invited talk, ICRA 2010 Workshop, May 7, 2010 (Anchorage, Alaska).
77. Y.-P. Zhao and Y.-P. He, “*The hydrogen storage performance of magnesium based nanostructures prepared by oblique angle deposition*,” invited talk, Energy Storage Workshop in Santa Clara, April 29-30, 2010 (Santa Clara, CA).
76. Y.-P. Zhao, “*Advanced nanostructure and nanocomposite design by dynamic shadowing growth*,” invited talk, ICCES10, April 18-21, 2010 (Las Vegas, NV).
75. D. Driskell, J. L. Abell, R. A. Dluhy, Y.-P. Zhao, and R. A. Tripp, “*SERS-based viral fingerprinting: current capabilities and challenges*,” invited talk, SPIE Defense, Security + Sensing, April 5-9, 2010 (Orlando, FL).
74. Justin Abell, Hsiao Yun Chu, Jeremy Driskell, Ralph Tripp, Richard Dluhy, Yiping Zhao, “*SERS substrates: large scale fabrication and high throughput screening devices*,” Nano DDS 2009, Sept. 28 - Oct. 2, 2009 (Fort Lauderdale, Florida).

73. Y.-P. Zhao, Justin Abell, J. D. Driskell, Y. Zhu, R. A. Tripp, and R. A. Dluhy, “*Multiwell SERS chips for high-throughput chemical and biological detection*,” invited talk, Nanorods and Microparticles in Homeland Security symposium at the 238th ACS National Meeting, Aug. 16, 2009 (Washington, DC).
72. Y.-P. Zhao, “*Autonomous nanomotors: design and observation*,” invited talk, Southeastern Microscopy Society Annual Meeting, May 27-29, 2009 (Athens, GA).
71. W. Smith, A. Wolcott, T.R. Kuykendall, J.-Z. Zhang, Y.-P. Zhao, “*Photoelectrochemical cells for direct hydrogen production from sunlight utilizing GLAD nanostructures*”, invited talk, 2009 Electrical Power Conference, May 12~14, 2009 (Chicago, IL).
70. Y.-P. Zhao, J.-X. Fu, Vivien S. Chu, B. Park, and Y. W. Huang, “*Novel nanotechnology based methods for foodborne pathogenic bacteria detection*,” invited talk, Food-related Nanotechnology Symposium at the 237th ACS National Meeting, March 20-26, 2009 (Salt Lake City, Utah).
69. Y.-P. Zhao, “*Novel nanotechnology based methods for pathogenic bacteria detection*,” invited lecture, 58th Western Poultry Disease Conference and American College of Poultry Veterinarians Workshop, March 22-25, 2009 (Sacramento, CA).
68. Y.-P. Zhao, “*Advanced nanofabrication by dynamic shadowing growth*,” invited lecture, 4th IEEE-NEMS, Jan. 5-8, 2009 (Shenzhen, China).
67. Y.-P. He and Y.-P. Zhao, “*Abnormal hydrogenation phenomena of Mg-based film structures on Si substrate: the formation of Mg₂Si alloy and sub-micro MgH₂ whiskers*,” MRS Fall 2008 Meeting, Dec. 1-5, 2008 (Boston, 2008).
66. Wilson Smith and Y.-P. Zhao, “*Improved photocatalytic performance of multi-layered TiO₂/WO₃ nanostructures*,” MRS Fall 2008 Meeting, Dec. 1-5, 2008 (Boston, 2008).
65. Richard A Dluhy, Jeremy Driskell, Yiping Zhao and Ralph Tripp, “*Nanorod array substrates for high sensitivity photonic sensing of biopathogens*,” invited talk, MRS Fall 2008 Meeting, Dec. 1-5, 2008 (Boston, 2008).
64. Z.-Y. Zhang and Y.-P. Zhao, “*Tuning the optical properties by engineering the topologic shape of Ag nanorods*,” SPIE Optics + Photonics, August 10 – 14, 2008 (San Diego, CA).
63. Y.-J. Liu, Z.-Y. Zhang, Y.-P. Zhao, “*Patterned Ag Nanorod Arrays as SERS Substrates by Template Mediated Oblique Angle Deposition*,” AVS 55th International Symposium & Exhibition, October 20-24, 2008 (Boston, MA).
62. Y.-P. Zhao, “*GLAD at the nano-bio interface*,” invited talk, AVS 55th International Symposium & Exhibition, October 20-24, 2008 (Boston, MA).
61. Y.-P. Zhao, “*Novel nanotechnology based methods for foodborne pathogenic bacteria detection*,” invited talk, 101st Alabama Veterinary Medicine Association (ALVMA) meeting, June 26-29 (Destin, Florida).
60. Y.-P. Zhao and Y.-P. He, “*Advanced nanofabrication by dynamic shadowing growth*,” 2008 International Materials Research Conference, June 9-12 (Chong Qing, China).
59. Y.-P. Zhao and Y.-P. He, “*Catalytic nanomotors fabricated by dynamic shadowing growth*,” invited talk, 2nd Integration & Commercialization of Micro & Nanosystems International Conference & Exhibition, June 3-5, 2008 (Clear Water Bay, Hong Kong, China).
58. R. Sharma, J. P. Mondia, J. Schaefer, W. Smith, S.-H. Li, Y.-P. Zhao, Z. H. Lu, and L. J. Wang, “*Optical properties of levitated ZnO nanowires*,” Workshop on Recent Advances of Low Dimensional Structures and Devices, April 7 – 9, 2008 (Nottingham, United Kingdom).
57. J.-X. Fu and Y.-P. Zhao, “*Fine tune localized surface Plasmon resonance for chemical and biological sensors*,” SPIE Symposium on Defense & Security 2008, March 18 – 20, 2008 (Orlando, Florida).
56. Y.-P. He and Y.-P. Zhao, “*Advanced nanofabrication by dynamic shadowing growth*,” invited talk, International Conference on Computational and Experimental Engineering and Sciences 2008, March 17- March 22, 2008 (Honolulu, Hawaii).

55. Y.-P. Zhao, Y.-P. He, and J.-X. Fu, “*Fabrication of hetero-structured 3D nanorod arrays by dynamic shadowing growth*,” invited talk, Southeastern Section of the American Physical Society, November 8-10, 2007(Nashville, Tennessee).
54. Z.-Y. Zhang and Y.-P. Zhao, “*Optical properties of helical Ag nanostructure calculated by discrete dipole approximation method*,” Southeastern Section of the American Physical Society, November 8-10, 2007 (Nashville, Tennessee).
53. J.-G. Fan and Y. P. Zhao, “*Superhydrophobic nanorod arrays*,” AVS 54th International Symposium & Exhibition, October 14-19, 2007 (Seattle, Washington).
52. Y. P. He and Y. P. Zhao, “*Fabrication of 3D Heterostructured Nanorod/Nanospring Arrays by Dynamic Shadowing Growth*,” AVS 54th International Symposium & Exhibition, October 14-19, 2007 (Seattle, Wanshington).
51. Y.-P. Zhao, S. Shanmukh, J. Driskell, Y.-J. Liu, L. Jones, R. A. Dluhy, and Ralph A. Tripp, “*Silver nanorod arrays as high sensitive and reliable SERS substrates for viral detections*,” invited talk, Colloquium Spectroscopicum Internationale XXXV, September 23-27 2007 (Xiamen, China).
50. Yuping He and Yiping Zhao, “*Catalytic nanomotors fabricated by dynamic shadowing growth*,” Materials Today Asia, Sept. 2-5, 2007 (Beijing, China).
49. Y.-P. Zhao, “*Integrated nanoscale metal hydride-catalyst architectures for hydrogen storage*,” DOE BES Hydrogen Storage Program Meeting, Aug. 16-17, 2007 (Germantown, MD).
48. J. S. Wu, J.-X. Fu, and Y.-P. Zhao, “*In situ investigation of dynamic growth of Cu-nanorod by transmission electron microscopy*,” Microscopy & Microanalysis 2007 Meeting, August 5-9, 2007 (Ft. Lauderdale, Florida).
47. H.-Y Chu, Y. Liu, Y. Huang, and Y. Zhao, “*Sliver nanorod array as a SERS substrate for E. coli O157:H7 detection*,” 2007 IFT Annual Meeting & Food Expo, July 28 – Aug. 1, 2007 (Chicago, IL).
46. J. Fu, B. Park, Y. Zhao, G. Siragusa, Y.-J. Cho, “*Au/Si nanorod-based biosensor for Salmonella detection*,” Biological Sensorics: Critical Technologies for Future Biosystems, June 15-17, 2007 (Minneapolis, Minnesota).
45. Y.-P. Zhao and Y.-P. He, “*Fabrication of hetero-structured 3D nanorod arrays by dynamic shadowing growth*,” invited talk, 2007 Nanoelectronic Devices for Defense & Security (NANO-DDS) Conference, June 18-21, 2007 (Arlington, Virginia).
44. Y.-P. Zhao, S. Shanmukh, J. Driskell, Y.-J. Liu, L. Jones, R. A. Dluhy, and R. A. Tripp, “*High sensitive SERS viral detection with Silver nanorod arrays prepared by oblique angle deposition*,” 2007 Nanoelectronic Devices for Defense & Security (NANO-DDS) Conference, June 18-21, 2007 (Arlington, Virginia).
43. S. Cheng, X. Luo, S. M. Bhandarkar, J. Fan, and Y. Zhao, “*Video-based metrology of water droplet spreading on nanostructured surfaces*,” the Eighth IEEE Workshop on the Applications of Computer Vision (WACV 2007), Feb 20-21, 2007 (Austin, TX).
42. Y.-P. Zhao, “*Fabricating heterogeneous nanorods by physical vapor deposition*,” 2007 NSF Electrical, Communications and Cyber Systems Grantees Workshop, April 29 – May 1, 2007 (Reno, Nevada).
41. Y. Zhao, S. Shanmukh, Y. J. Liu, L. P. Jones, R. A. Dluhy, and R. A. Tripp, “*SERS detection of viruses based on silver nanorod*,” SPIE Symposium on Defense & Security 2007, April 9 – 13, 2007 (Orlando, Florida).
40. Y.-P. Zhao, S. Shanmukh, Y.-J. Liu, J.-G. Fan, S. B. Chaney, L. Jones, R. A. Dluhy, and R. A. Tripp, “*Silver nanorod array as high sensitive SERS substrates for viral detection*,” invited talk, MRS Fall Meeting (Boston, 2006).

39. Junxue Fu, Les Jones, Rene Alvarez, R. Tripp, Y.-P. Zhao, “*Detecting respiratory syncytial virus (RSV) infected cells by bio-functional Au/Si nanorods,*” American Chemical Society 58th Southeast Regional Meeting, Nov.1-Nov.5, 2006 (Augusta, GA).
38. Z.-Y. Zhang and Y.-P. Zhao, “*Optical absorbance spectra of aligned Ag nanorod arrays prepared by oblique angle deposition,*” American Chemical Society 58th Southeast Regional Meeting, Nov.1-Nov.5, 2006 (Augusta, GA).
37. Z.-Z. Wu, Y.-P. Zhao, W. Kisaalita, “*Differentiation of H945RB.3 human neural progenitor cells on microstructured substrates in terms VGCC function,*” UGA Fifth Annual BHSI Retreat, Sep 22, 2006.
36. Z.-Z. Wu, Y.-P. Zhao, W. Kisaalita, “*Developing microstructures for three dimensional cell-based biosensing,*” The 9th World Congress on biosensors, Sheraton Centre, Toronto, Canada, May 10-12, 2006.
35. Z.-Y. Zhang and Y.P. Zhao, “*The optical properties of Ag nanorods calculated by discrete dipole approximation*”, the 3rd NanoSEC annual meeting. University of Georgia, Athens, GA. May 2006.
34. Y.-P. He, J.-X. Fu, Y. Zhang, L.-J. Zhang, A.-L. Xia, J.-W. Cai and Y.-P. Zhao, “*Multilayered Si/Ni nanosprings and their magnetic properties,*” the 3rd NanoSEC annual meeting. University of Georgia, Athens, GA. May 2006.
33. J.-G. Fan and Y.-P. Zhao, “*Spreading of water drops on vertically aligned Si nanorod arrays,*” the MRS Fall meeting, Boston, MA. Nov 2006.
32. J.-G. Fan, Y.-J. Liu and Y.-P. Zhao, “*Integrating aligned nanorods arrays onto optical fibers,*” the 53rd AVS international symposium and exhibition, San Francisco, CA. Nov. 2006.
31. J.-G. Fan and Y.-P. Zhao, “*Nanocarpent effect: formation and characterization of watermarks formed on aligned silicon nanorod arrays,*” the 53rd AVS international symposium and exhibition, San Francisco, CA. Nov 2006.
30. J.-G. Fan and Y.-P. Zhao, “*The static and dynamic wetting of Si nanorod arrays,*” the 3rd NanoSEC annual meeting. University of Georgia, Athens, GA. May 2006.
29. J.-G. Fan and Y.-P. Zhao, “*The static and dynamic wetting of Si nanorod arrays,*” the APS March meeting, Baltimore, MD. Mar. 2006.
28. J.-G. Fan, Y.-J. Liu, and Y.-P. Zhao, “*Integrating aligned nanorod array onto optical fibers for SERS probes,*” SPIE Optics & Photonics Annual Meeting (San Diego, 2006).
27. Y.-P. Zhao, S. Shanmukh, S. B. Chaney, L. Jones, R. A. Dluhy, and R. A. Tripp, “*Silver nanorod array as high sensitive SERS substrates for viral detection,*” SPIE Optics & Photonics Annual Meeting (San Diego, 2006).
26. Y.-P. Zhao, Saratchandra Shanmukh, Stephen B. Chaney, Les Jones, Richard A. Dluhy, and Ralph A. Tripp, “*Aligned silver nanorod array as SERS substrates for viral sensing,*” APS March Meeting, 2006.
25. Z.-Y. Zhang and Y.-P. Zhao, “*The optical properties of Ag nanorods calculated by discrete dipole approximation,*” Optics in the Southeast 2005, Atlanta, Georgia, 2005.
24. Z.-Y. Zhang and Y.P. Zhao, “*The optical properties of Ag nanorods calculated by discrete dipole approximation,*” The second Annual University of Georgia Engineering Conference, Athens, Georgia, 2005.
23. Z.-Z. Wu, Y.-P. Zhao, W. Kisaalita, “*Developing microstructures for three dimensional cell growth,*” The 10th Annual Meeting of Institute of Biological Engineering, Athens, Georgia, USA. March 4-6, 2005.
22. Z.-Z. Wu, Y.-P. Zhao, W. Kisaalita, “*Integrating SH-SY5Y neuroblastoma cells with SU-8 microstructures,*” UGA NanoSEC Annual Workshop and Meeting 2005, May 26, 2005.

21. Y.-P. Zhao, “*Designing nanostructures for sensor applications*,” invited talk, 57th Southeast/61st Southwest Regional ACS Meeting, Memphis, TN, 1-4, Nov. 2005.
20. Y.-P. Zhao, “*Designing nanostructures for sensor applications*,” invited talk, International Workshop on Interface Disorder in Nanosystems, Leiden, Holland, 19-25, June, 2005.
19. Y.-P. Zhao, “*Monte Carlo simulation of polymer thin film growth*,” invited talk, 5th Stransi-Kaischew Surface Science Workshop – Pamporovo, Bulgaria, 19-25 February, 2005.
18. Y.-P. Zhao, “*Designing nanostructures for sensor applications*,” invited talk, TMS Annual meeting, Feb. 14, 2005 (San Francisco, CA).
17. J.-G. Fan and Y.-P. Zhao, “*Integrating aligned nanorod arrays onto optical fibers*,” the SPIE Optics in the Southeast, Atlanta, GA. Oct. 2005.
16. Junxue Fu, Les Jones, Rene Alvarez, Ralph Tripp, and Y.-P. Zhao, “*Detecting Respiratory Syncytial Virus infected cells by bio-functional Au/Si nanorods*,” the 2nd Annual University of Georgia Engineering Conference, University of Georgia, Athens, GA. Oct. 2005.
15. Junxue Fu, Les Jones, Y.-P. Zhao, and Ralph Tripp, “*A quartz crystal microbalance sensor for the detection of RSV*,” the 2nd Annual University of Georgia Engineering Conference, University of Georgia, Athens, GA. Oct. 2005.
14. J.-G. Fan and Y.-P. Zhao, “*Integrating aligned nanorod arrays onto optical fibers*,” the 2nd Annual University of Georgia Engineering Conference, University of Georgia, Athens, GA. Oct. 2005. 1st prize of best posters.
13. J.-G. Fan and Y.-P. Zhao, “*Characterization of watermarks formed on Si nanorod arrays*,” the 2nd NanoSEC annual meeting, University of Georgia, Athens, GA. May 2005.
12. J.-G. Fan and Y.-P. Zhao, “*Nano-carpet effect*,” the 1st NanoSEC annual meeting, University of Georgia, Athens, GA. May 2004.
11. Y.-P. Zhao and Wade Bowie, “*Simulating vapor deposition of polymer thin films*,” MRS Fall Meeting, Nov. 29-Dec. 3, 2004 (Boston, MA).
10. J.-G. Fan, D. Dyer, G.-G. Zhnag, and Y.-P. Zhao, “*Nano-carpet effect: the wetting of vertically aligned Si nanorod arrays*,” MRS Fall Meeting, Nov. 29-Dec. 3, 2004 (Boston, MA).
9. Abul k. Azad, W.-L. Zhang, S.-H. Li, and Y.-P. Zhao, “*Transient photoconductivity of vertically aligned crystalline TiO₂ nanorod array*,” MRS Fall Meeting, Nov. 29-Dec. 3, 2004 (Boston, MA).
8. Y.-P. Zhao, S.-H. Li, and X. -F. Zhu, Samuk Pimanpang, and G.-C. Wang, “*Carbon assisted SiO_x nanowire growth*,” MRS Fall Meeting, Nov. 29-Dec. 3, 2004 (Boston, MA).
7. Y.-P. Zhao, “*Fabricating novel nanostructures by glancing angle deposition*,” ICCE-11, Hilton-Head Island, SC, 8-13, August 2004.
6. Zhang, G; Zhao, YP; Kisaalita, W; Keith, C; Fan, JG; Haq, F; Dyer, D; Sawaya, G; Uyesugi, K; “*Nanostructured terrain for supporting neurite growth*,” the 7th World Biomaterials Congress, Sydney, Australia 17-21, May 2004.
5. Y.-P. Zhao, D.-X. Ye, G.-C. Wang, and T.-M. Lu, “*Designing nanostructures by glancing angle deposition*,” SPIE 48th Annual Meeting (San Diego, 2003). (Invited)
4. Pei-I Wang, Y.-P. Zhao, G.-C. Wang and T.-M. Lu, MRS Spring meeting, 2002.
3. K. Dovidenko, R. Moore, J. Rullan, Y. Zhao, K. A. Dunn, N. L. Abramson, “*Carbon nanotubes: chemical and structural effects of FIB-assisted Pt contacts deposition*,” MRS Spring Meeting, 2002.
2. John R. LaGraff, Yi-Ping Zhao, David J. Graber, Dan Rainville, Gwo-Ching Wang, Toh-Ming Lu, Quynh Chu-LaGraff, Don Szarowski, William Shain, and James N. Turner, “*Fabrication and imaging of protein crossover structures*,” Paper # C. 53587, MRS Fall Meeting, 2002.
1. T.-M. Lu, Y.-P. Zhao, J.T. Drotar, T. Karabacak, and G.-C. Wang, “*Novel mechanisms on the growth morphology of films*,” Paper #W1.2, MRS Fall Meeting, 2002.