**TERI W. ODOM**

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##### Education and Training

2015- Charles E. and Emma H. Morrison Professor of Chemistry, Northwestern University

2011-2015 Board of Lady Managers of the Columbian Exposition Professor of Chemistry,   
Northwestern University

2011- Professor of Materials Science and Engineering, Northwestern University

2008-10 Dow Chemical Company Research Professor, Northwestern University

2007-11 Associate Professor of Chemistry, Northwestern University

2007-11 Associate Professor of Materials Science and Engineering, Northwestern University

2002-07 Assistant Professor of Chemistry, Northwestern University

2001 Postdoctoral Fellow, Harvard University

2001 Ph.D. Chemical Physics, Harvard University

1996 B.S. Chemistry, Stanford University

##### Major Professional Interests

Plasmonics and nanophotonics; optical properties of nanoscale materials; biological imaging; large-area nanoscale patterning; materials chemistry; cancer therapeutics and drug delivery

##### Honors and Awards

**Awards at Northwestern University**

2016 Fellow of the American Chemical Society (ACS) (confidential until 18 July)

2016 Blavatnik National Award for Young Scientists, Finalist (Chemistry)

2016 Materials Research Society (MRS) Fellow

2014 Fellow of the Royal Society of Chemistry (FRSC)

2014 Blavatnik National Award for Young Scientists, Finalist (Physical Sciences and Engineering)

2014 Public Voices Fellowship, Northwestern University

2014 International Precious Metals Institute (IPMI) Carol Tyler Award

2013 Dalton Lecture Award

2011 Radcliffe Institute for Advanced Study Fellowship, Hrdy Fellow, Harvard University

2011 American Chemical Society (ACS) Akron Section Award

2010 Defense Science Study Group (DSSG) Member

2009 MRS Outstanding Young Investigator Award

2008 National Fresenius Award (Phi Lambda Upsilon and ACS)

2008 National Institutes of Health (NIH) Director’s Pioneer Award

2007 Rohm and Haas New Faculty Award

2006 Exxon-Mobil Solid State Chemistry Faculty Fellowship (ACS Inorganic)

2005 Cottrell Scholar Award (Research Corporation)

2005 DuPont Young Investigator

2005 Alfred P. Sloan Research Fellowship

2004 TR100 MIT Technology Review Award for “one of world’s top young innovators”

2004 NSF Nanotechnology Undergraduate Education (NUE) Award

2004 NSF CAREER Award

2003 David and Lucile Packard Fellowship

2003 Searle Fellow

2003 Hewlett Funding for Undergraduate Innovation in Teaching

2002 Research Innovation Award (Research Corporation)

2002 Dow Teacher-Scholar Award

**Postdoctoral Awards and Honors**

2003 Victor K. LaMer Award (ACS Colloids and Surface Chemistry), Harvard University

2001 NIH NRSA Postdoctoral Fellowship, Harvard University

2001 IUPAC Prize for Young Chemists (international thesis prize), Harvard University

**Predoctoral Awards and Fellowships**

1999 White Prize for Excellence in Undergraduate Physics Teaching, Harvard University

1996-99 NSF Predoctoral Fellowship, Harvard University

1996 Karplus Award for Chemical Physics, Harvard University

1996 S.S & I.M.F. Marsden Memorial Prize for Chemistry Research, Stanford University

1996 Phi Beta Kappa, Stanford University

##### Publications

**Northwestern Publications (Reverse Order)**

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| 121. | Culver, K.S.B.; Shin, Y.J.; Rotz, M.; Meade, T.J.; Hersam, M.C.; Odom, T.W. “Shape-dependent Relaxivity of Nanoparticle-based Magnetic Resonance Imaging Contrast Agents,” submitted. |
| 120. | Lee, W.K.; Jung, W.-B.; Nagel, S.; Odom, T.W. “Stretchable Superhydrophobicity from Monolithic, Three-Dimensional Hierarchical Wrinkles,” *Nano Letters* **2016**, accepted. [DOI: 10.1021/acs.nanolett.6b01169](http://pubs.acs.org/doi/abs/10.1021/acs.nanolett.6b01169) |
| 119. | Hua, Y.; Chandra, K.; Dam, D.H.M.; Wiedderecht, G.P.; Odom, T.W. “Shape-dependent Nonlinear Optical Properties of Anisotropic Gold Nanoparticles,” *J. Phys. Chem. Lett* **2015**, *6*, 4904. [DOI: 10.1021/acs.jpclett.5b02263](http://dx.doi.org/10.1021/acs.jpclett.5b02263) |
| 118. | Wang, D.; Yang, A.; Hryn, A.; Schatz, G.C.; Odom, T.W. “Superlattice Plasmons in Hierarchical Au Nanoparticle Arrays,” *ACS Photonics* **2015**, *2*, 1789. [DOI: 10.1021/acsphotonics.5b00546](http://pubs.acs.org/doi/abs/10.1021/acsphotonics.5b00546) |
| 117. | Yang, A.; Li, Z.; Knudson, M.P.; Hryn, A.J.; Wang, W.; Aydin, K.; Odom, T.W. “Unidirectional Lasing from Template-stripped Two-dimensional Plasmonic Crystals,” *ACS Nano* **2015**, *9*, 11582. [DOI: 10.1021/acsnano.5b05419](http://pubs.acs.org/doi/10.1021/acsnano.5b05419) [**ACS Editor’s Choice Article**] |
| 116. | Lee, H.; Dam, D.H.M.; Ha, J.; Odom, T.W. “Enhanced Human Epidermal Growth Factor Receptor 2 Degradation in Breast Cancer Cells by Lysosome-Targeting Gold Nanoconstructs,” *ACS Nano* **2015**, *9*, 9859. [DOI: 10.1021/acsnano.5b05138](http://pubs.acs.org/doi/10.1021/acsnano.5b05138) |
| 115. | Lee, W.K.; Engel, C.J.; Huntington, M.D.; Hu, J.; Odom, T.W. “Controlled Three-Dimensional Hierarchical Structuring by Memory-Based, Sequential Wrinkling,” *Nano Letters* **2015**, *15*, 5624. [DOI: 10.1021/acs.nanolett.5b02394](http://dx.doi.org/10.1021/acs.nanolett.5b02394) [**Highlighted by** [Science](http://www.sciencemag.org/content/349/6250/twil.full#compilation-1-1-article-title-1), **Nanowerk.com**, <http://www.nanowerk.com/spotlight/spotid=40956.php>] |
| 114. | Odom, T.W.; Dickson, R.M.; Duncan, M.A.; Tan, W. “Shining a Light on the Molecular and Nanoscopic Worlds,” *ACS Photonics* **2015**, *2*, 787. [DOI: 10.1021/acsphotonics.5b00337](http://pubs.acs.org/doi/abs/10.1021/acsphotonics.5b00337) |
| 113. | Yang, A.; Odom, T.W. “Advances in Plasmonic Nanolasers,” *IEEE Photonics Journal* **2015**, *7*, 0700606.[DOI: 10.1109/JPHOT.2015.2413773](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7062019). |
| 112. | Yang, A.; Hoang, T.B.; Dridi, M.; Deeb, C.; Mikkelsen, M.H.; Schatz, G.C.; Odom, T.W. “Real-time Tunable Lasing from Plasmonic Nanocavity Arrays,” *Nature Communications*, **2015**, *6*, 6939. [DOI: 10.1038/ncomms7939](http://www.nature.com/ncomms/2015/150420/ncomms7939/full/ncomms7939.html). [**Highlighted in Nanowerk**.**com**, <http://www.nanowerk.com/spotlight/spotid=39810.php>, **Physicsworld.com**  <http://physicsworld.com/cws/article/news/2015/apr/23/tunable-plasmon-laser-could-sniff-out-cancer>, **Northwestern News** <http://www.northwestern.edu/newscenter/stories/2015/04/northwestern-scientists-develop-first-liquid-nanolaser.html>] |
| 111. | Rotz, M.W.; Culver, K.S.B.; Parigi, G.; MacRenaris, K.W.; Luchinat, C.; Odom, T.W.; Meade, T.J. “High Relaxivity Gd(III)-DNA Gold Nanostars: Investigation of Shape Effects on Proton Relaxation,” *ACS Nano* **2015**, *9*, 3385. [DOI: 10.1021/nn5070953](http://dx.doi.org/10.1021/nn5070953) [**Cover Image**] |
| 110. | Dam, D.H.M.; Lee, R.C.; Lee, H.; Odom, T.W. “Tunable Loading of Oligonucleotides with Secondary Structure on Gold Nanoparticles through a pH-driven Method,” *Bioconjugate Chemistry* **2015**, *26*, 279. [DOI: 10.1021/bc500562s](http://pubs.acs.org/doi/pdf/10.1021/bc500562s). |
| 109. | Dam, D.H.M.; Culver, K.S.B; Kandela, I.; Lee, R.C.; Chandra, K.; Lee, H.; Mantis, C.; Ugolkov, A.; Mazar, A.P.; Odom, T.W. “Biodistribution and in Vivo Toxicity of Aptamer-Loaded Gold Nanostars,” *Nanomedicine: Nanotechnology, Biology, and Medicine* **2015**, *11*, 671. [DOI: 10.1016/j.nano.2014.10.005](http://dx.doi.org/10.1016/j.nano.2014.10.005). NIHMS 643436. |
| 108. | Lee, H.; Odom, T.W. “Controlling Ligand Density on Nanoparticles as a means to Enhance Biological Activity,” *Nanomedicine* **2015**, *10*, 177. [**DOI: 10.2217/nnm.14.204**](http://www.futuremedicine.com/doi/pdf/10.2217/nnm.14.204). |
| 107. | Huntington, M.D.; Lauhon, L.J.; Odom, T.W. “Subwavelength Lattice Optics by Evolutionary Design,” *Nano Lett.* **2014***, 14*, 7195. [DOI: 10.1021/nl5040573](http://dx.doi.org/10.1021/nl5040573) [PMCID: PMC4264853] |
| 106. | Yang, A.; Huntington, M.D.; Cardinal, M.F.; Masango, S.; Van Duyne, R.P.; Odom, T.W. “Hetero-oligomer Nanoparticle Arrays for Plasmon-Enhanced Hydrogen Sensing,” *ACS Nano* **2014**, *8*, 7639. [DOI: 10.1021/nn502502r](http://pubs.acs.org/doi/abs/10.1021/nn502502r) [**Highlighted in Nanotechweb.org** http://nanotechweb.org/cws/article/tech/57873] |
| 105. | Huntington, M.D.; Engel, C.J.; Odom, T.W. “Controlling the Orientation of Nanowrinkles and Nanofolds by Patterning Strain in a Thin Skin Layer on a Polymer Substrate,” *Angew. Chemie* **2014**, *53*, 8117. [DOI: 10.1002/anie.201404483](http://onlinelibrary.wiley.com/doi/10.1002/anie.201404483/pdf) |
| 104. | Li, S.; Guo, P.; Buchholz, D.B.; Zhou, W.; Hua, Y.; Odom, T.W.; Ketterson, J.B.; Ocola, L.E., Sakoda, K. Chang, R.P.H. “Plasmonic–Photonic Mode Coupling in Indium-Tin-Oxide Nanorod Arrays,” *ACS Photonics* **2014**, *1*, 163. [DOI: 10.1021/ph400038g](http://pubs.acs.org/doi/abs/10.1021/ph400038g) |
| 103. | Dam, D.H.M.; Culver, K.B.; Odom, T.W. “Improved in Vitro Efficacy of Gold Nanoconstructs by Increased Loading of G-quadruplex Aptamer,” *Nano Lett.* **2014**, *14*, 2843. [DOI: 10.1021/nl500844m](http://pubs.acs.org/doi/abs/10.1021/nl500844m) [PMCID: PMC4023846] [**Highlighted in Nanowerk.com** <http://www.nanowerk.com/spotlight/spotid=35143.php> and **NanotechWeb.org** <http://nanotechweb.org/cws/article/tech/56956>] |
| 102. | Dam, D.H.M.; Culver, K.B.; Odom, T.W. “Grafting Aptamers onto Gold Nanostars increases in vitro Efficacy in a Wide Range of Cancer Cell Types,” *Mol. Pharmaceutics* **2014**, *11*, 580. [DOI: 10.1021/mp4005657](http://pubs.acs.org/doi/abs/10.1021/mp4005657) [PMCID: PMC3974612] |
| 101. | Lubin, S.M.; Hryn, A.; Huntington, M.D.; Engel, C.J.; Odom, T.W. “Quasiperiodic Moiré Plasmonic Crystals,” *ACS Nano* **2013**, *8*, 11035. [DOI: 10.1021/nn404703z](http://dx.doi.org/10.1021/nn404703z) |
| 100. | Suh, J.Y.; Odom, T.W. “Nonlinear Properties of Nanoscale Antennas,” *Nano Today* **2013**, *8*, 469. [DOI: 10.1016/j.nantod.2013.08.010](http://dx.doi.org/10.1016/j.nantod.2013.08.010) |
| 99. | Zhou, W.; Dridi, M.; Suh, J.Y.; Kim, C.H.; Co, D.T.; Wasielewski, M.R.; Schatz, G.C.; Odom, T.W. “Lasing Action in Strongly Coupled Plasmonic Nanocavity Arrays,” *Nature Nanotech.* **2013**, *8*, 506. [DOI: 10.1038/nnano.2013.99](http://dx.doi.org/10.1038/nnano.2013.99) [**Highlighted in News and Views** *Nature Nanotech.* **2013**, *8*, 479 and **NanotechWeb.org** <http://nanotechweb.org/cws/article/tech/53921>] |
| 98. | Huntington, M.D.; Engel, C.J.; Hryn, A.; Odom, T.W. “Polymer Nanowrinkles with Continuously Tunable Wavelengths,” *Appl. Materials and Interfaces* **2013**, *5*, 6438. [**DOI: 10.1021/am402166d**](http://pubs.acs.org/doi/abs/10.1021/am402166d) |
| 97. | Odom, T.W. “Materials science: The same, but better.” Nature **2013**, 496, 40. [DOI: 10.1038/496040a](http://www.nature.com/nature/journal/v496/n7443/full/496040a.html) |
| 96. | Lin, J.; Stuparu, A.; Huntington, M.D.; Mrksich, M.; Odom, T.W. “Nanopatterned Substrates increase Surface Sensitivity for Real-time Biosensing,” *J. Phys. Chem. C* **2013**, *117*,5286. [DOI: 10.1021/jp401598a](http://pubs.acs.org/doi/abs/10.1021/jp401598a) |
| 95. | Dam, D.H.M.; Culver, K.B.; Sisco, P.N.; Odom, T.W. “Shining Light on Nuclear-targeted Therapy using Gold Nanostar Constructs,” *Therapeutic Delivery* (Spotlight) **2012**, *3*, 1263. [DOI: 10.4155/tde.12.107](http://dx.doi.org/10.4155/tde.12.107) [PMCID: PMC3632341] |
| 94. | Suh, J.Y.; Kim, C.H.; Zhou, W.; Huntington, M.D.; Co, D.T.; Wasielewski, M.R.; Odom, T.W. “Plasmonic Bowtie Nanolaser Arrays,” *Nano Lett.* **2012**, *12*, 5769. [DOI: 10.1021/nl303086r](http://dx.doi.org/10.1021/nl303086r). [**Highlighted in Northwestern University News** <http://www.northwestern.edu/newscenter/stories/2012/11/researchers-create-laser-the-size-of-a-virus-particle.html>and other media sources] |
| 93. | Blaber, M.G.; Engel, C.J.; Vivekchand, S.R.C.; Lubin, S.M.; Odom, T.W.; Schatz, G.C. “Eutectic Liquid Alloys for Plasmonics: Theory and Experiment,” *Nano Lett.* **2012**, *12*, 5275. [DOI: 10.1021/nl3025104](http://dx.doi.org/10.1021/nl3025104) |
| 92. | Zhou, W.; Suh, J.Y.; Hua, Y.; Odom, T.W. “Hybridization of Localized and Guided Modes in 2D Metal-Insulator-Metal Nanocavity Arrays,” *J. Phys. Chem. C* **2013**, *117*, 2541. [DOI: 10.1021/jp306972j](http://dx.doi.org/10.1021/jp306972j) |
| 91. | Odom, T.W.; You, E.; Sweeney, C.M. “Multi-scale Plasmonic Nanoparticles and the Inverse Problem,” *J. Phys. Chem. Lett.* **2012**, *3*, 2611. [DOI: 10.1021/jz300886z](http://dx.doi.org/10.1021/jz300886z) [PMCID: PMC3467152] [**Invited Perspective**]. [**Cover Article**]. |
| 90. | Lubin, S.M.; Zhou, W.; Hryn, A.J.; Huntington, M.D.; Odom, T.W. “High Rotational Symmetry Lattices Fabricated by Moiré Nanolithography,” *Nano Lett.* **2012**, *12*, 4948. [DOI: 10.1021/nl302535p](http://dx.doi.org/10.1021/nl302535p) [**Highlighted in NanotechWeb.org**<http://nanotechweb.org/cws/article/tech/50712>]. |
| 89. | Odom, T.W. “Printable Stained Glass,” *Nature Nanotech.* **2012**, *7*, 550. [DOI: 10.1038/nnano.2012.135](http://dx.doi.org/10.1038/nnano.2012.135) |
| 88. | Vivekchand, S.R.C.; Engel, C.J.; Lubin, S.M.; Blaber, M.G.; Zhou, W.; Suh, J.Y.; Schatz, G.C.; Odom, T.W. “Liquid Plasmonics: Manipulating Surface Plasmon Polaritons via Phase Transitions,” *Nano Lett.* **2012**, *12*, 4324. [DOI: 10.1021/nl302053g](http://dx.doi.org/10.1021/nl302053g) [**Highlighted in Chemistry World** <http://www.rsc.org/chemistryworld/2012/08/liquid-gallium-lights>] |
| 87. | Hua, Y.; Zhou, W.; Suh, J.Y.; Huntington, M.D.; Odom, T.W. “The Talbot Effect Beyond the Paraxial Limit at Optical Frequencies,” *Opt. Express.* **2012**, *20*, 14284. [DOI: 10.1364/OE.20.014284](http://dx.doi.org/10.1364/OE.20.014284) [PMCID: PMC3482921] |
| 86. | Zhou, W.; Hua, Y.; Huntington, M.D.; Odom, T.W. “Delocalized Lattice Plasmon Resonances Show Dispersive Quality Factors,” *J. Phys. Chem. Lett.* **2012**, *3*, 1381. [DOI: 10.1021/jz300318v](http://dx.doi.org/10.1021/jz300318v) |
| 85. | Dam, D.H.M.; Lee, J.; Sisco, P.; Co, D.; Zhang, M.; Wasielewski, M.R.; Odom, T.W. “Direct Observation of Nanoparticle-Cancer Cell Nucleus Interactions,” *ACS Nano* **2012**, *6*, 3318. [DOI: 10.1021/nn300296p](http://dx.doi.org/10.1021/nn300296p) [PMCID: PMC3337354]. [**Highlighted in C&E News**, 2 April 2012, *90*, 25, and **Northwestern University News** <http://www.northwestern.edu/newscenter/stories/2012/04/gold-nanostars-attack-cancer.html>)] |
| 84. | Odom, T.W.; Huntington, M.D. “Benchtop Photolithography Tool offers a Low-cost Route to Nanomanufacturing,” *SPIE Newsroom* **2012**, 28 February 2012, [DOI: 10.1117/2.1201202.004132](http://dx.doi.org/10.1117/2.1201202.004132). |
| 83. | Kichin, G.; Weiss, T.; Gao, H.; Henzie, J.; Odom, T.W.; Tikhodeev, S.G.; Giessen, H. “Metal-dielectric Photonic Crystal Superlattice: 1D and 2D Models and Empty Lattice Approximation,” *Physica B: Condensed Matter* **2012**, *407*, 4037. [DOI: 10.1016/j.physb.2012.01.128](http://dx.doi.org/10.1016/j.physb.2012.01.128). |
| 82. | You, E.; Zhou, W.; Suh, J.Y.; Huntington, M.D. “Polarization-Dependent Multipolar Plasmon Resonances in Anisotropic Multiscale Au Particles,” *ACS Nano* **2012**, *6*, 1786. [DOI: 10.1021/nn204845z](http://dx.doi.org/10.1021/nn204845z) [PMCID: PMC3289737] |
| 81. | Suh, J.Y.; Huntington, M.D.; Kim, C.-H.; Zhou, W.; Wasielewski, M.R.; Odom, T.W. “Extraordinary Nonlinear Absorption in 3D Bowtie Nanoantennas,” *Nano Lett.* **2012**, *12*, 269. [DOI: 10.1021/nl2034915](http://pubs.acs.org/doi/abs/10.1021/nl2034915) [PMCID: PMC3256284] |
| 80. | Li, S. Q.; Guo, P.; Zhang, L.; Zhou, W.; Odom, T.W.; Seideman, T.; Ketterson, J.B.; Chang, R.P.H. “Infrared Plasmonics with Indium-Tin-Oxide Nanorod Arrays,” *ACS Nano* **2011**, *5*, 9161. [DOI: 10.1021/nn203406f](http://pubs.acs.org/doi/pdfplus/10.1021/nn203406f) |
| 79. | Huntington, M.D.; Odom, T.W. “A Portable, Benchtop Photolithography System based on a ¬Solid State Light Source,” *Small* **2011**, *7*, 3144. [DOI: 10.1002/smll.201101209](http://onlinelibrary.wiley.com/doi/10.1002/smll.201101209/abstract) [**Cover Article**] |
| 78. | Sweeney, C.M.; Nehl, C.; Hasan, W.; Liang, T.; Eckermann, A.; Meade, T.J.; Odom, T.W. “A Three-Channel Spectrometer for Wide-Field Imaging of Anisotropic Plasmonic Nanoparticles,” *J. Phys. Chem. C* **2011**, *115*, 15933. [DOI: 10.1021/jp206157v](http://pubs.acs.org/doi/abs/10.1021/jp206157v) [PMCID: PMC3171732] |
| 77. | Odom, T.W.; Schatz, G.C. “Introduction to Plasmonics,” *Chem. Rev.* **2011**, *111*,3667. [DOI: 10.1021/cr2001349](http://dx.doi.org/10.1021/cr2001349) |
| 76. | Sweeney, C.M.; Stender, C.L.; Nehl, C.; Hasan, W.; Shuford, K.L.; Odom, T.W. “Optical Properties of Tipless Pyramids,” *Small* **2011**, *7,* 2032. [DOI: 10.1002/smll.201100758](http://onlinelibrary.wiley.com/doi/10.1002/smll.201100758/pdf) [PMCID: PMC3632636] |
| 75. | Zhou, W.; Odom, T.W. “Tunable Subradiant Lattice Plasmons by Out-of-Plane Dipolar Interactions,” *Nature Nanotech* **2011** *6*, 423. [DOI: 10.1038/nnano.2011.72](http://www.nature.com/nnano/journal/vaop/ncurrent/abs/nnano.2011.72.html) |
| 74. | Stoerzinger, K.A.; Lin, J.Y.; Odom, T.W. “Nanoparticle SERS Substrates with 3D Raman-Active Volumes,” *Chemical Science* **2011**, *2*, 1435. [DOI: 10.1039/C1SC00125F](http://pubs.rsc.org/en/content/articlepdf/2011/sc/c1sc00125f) |
| 73. | Chia, M.; Sweeney, C.M.; Odom, T.W. “Chemistry in Microfluidic Channels,” *J. Chem. Educ.* **2011**, *88* 461. [DOI: 10.1021/ed1008624](http://pub.acs.org/doi/pdf/10.1021/ed1008624)[**Cover Article** in April 2011.] |
| 72. | Lee, M.H.; Huntington, M.D.; Zhou, W.; Yang, J.-C.; Odom, T.W. “Programmable Soft Lithography: Solvent-Assisted Nanoscale Embossing,” *Nano Lett.* **2011**, *11*, 311. [DOI: 10.1021/nl102206x](http://pubs.acs.org/doi/abs/10.1021/nl102206x) [**Highlighted in C&E News**, 16 August 2010, *88*, 41. and **Northwestern University News** (<http://www.northwestern.edu/newscenter/stories/2010/08/shrinky-dinks-nanopatterning-odom.html>)] [**Cover Article** in *Nano Lett.* February 2011.] |
| 71. | Gao, H.; Lee, M.H.; Hyun, J.K.; Yang, J.-C.; Lauhon, L.J.; Odom, T.W. “Broadband Plasmonic Microlenses based on Nanoholes in Arbitrary Lattices,” *Nano Lett.* **2010**, *10*, 4111. [DOI: 10.1021/nl1022892](http://pubs.acs.org/doi/full/10.1021/nl1022892) [PMCID: PMC2955180] [**Highlighted in NanotechWeb.org**<http://nanotechweb.org/cws/article/tech/44023>]. |
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| 69. | Gao, H.; Yang, J.-C.; Lin, J.Y.; Stuparu, A.; Lee, M.H.; Mrksich, M.; Odom, T.W. “Using the Angle-Dependent Resonances of Molded Plasmonic Crystals to Improve the Sensitivities of Biosensors,” *Nano Lett.* **2010**, 10, 2549. [DOI: 10.1021/nl101165r](http://pubs.acs.org/doi/full/10.1021/nl101165r) [**Highlighted in NanotechWeb.org**(<http://nanotechweb.org/cws/article/tech/42954>)]. |
| 68. | Lee, M.H.; Lin, J.Y.; Odom, T.W. “Large-area Nanocontact Printing using Nanostencil Masks,” *Angew. Chemie* **2010**, *49*, 3057. [DOI: 10.1002/anie.200906800](http://dx.doi.org/10.1002/anie.200906800) |
| 67. | Li, P.; Stender, C.L.; Ringe, E.; Marks, L.D.; Odom, T.W. “Synthesis of TaS2 Nanotubes from Ta2O5 Nanotube Templates,” *Small* **2010**, *6*, 1096. [DOI: 10.1002/smll.201000226](http://dx.doi.org/10.1002/smll.201000226) |
| 66. | Stoerzinger, K.A.; Hasan, W.; Lin, J.Y.; Robles, A.; Odom, T.W. **“**Screening Nanopyramid Assemblies to Optimize Surface Enhanced Raman Scattering,” J. Phys. Chem. Lett. **2010, *1*, 1046.** [**DOI: 10.1021/jz100095b**](http://pubs.acs.org/doi/abs/10.1021/jz100095b?prevSearch=%255Bauthor%253A%2Bstoerzinger%255D&searchHistoryKey=) |
| 65. | Zhou, W.; Gao, H.; Odom, T.W. “Toward Broadband Plasmonics: Tuning Dispersion in Rhombic Plasmonic Crystals,” *ACS Nano* **2010**, *4*, 1241. [DOI: 10.1021/nn901590p](http://pubs.acs.org/doi/full/10.1021/nn901590p) [**Highlighted in NanotechWeb.org**(<http://nanotechweb.org/cws/article/tech/41746>)]. |
| 64. | Lin, J.; Hasan, W.; Yang, J.-C.; Odom, T.W. “Optical Properties of Nested Pyramidal Nanoshells,” *J. Phys. Chem. C* **2010**, *114*, 7432. [DOI: 10.1021/jp910627r](http://pubs.acs.org/doi/full/10.1021/jp910627r) [PMCID: PMC2812899]*.* |
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| 1. | Odom, T.W. “Research-Based Courses in Nanotechnology for Undergraduates and Nanoscience Modules for High School and Community College Students.” In *Nanoscale Science and Engineering Education*, Sweeney, A.E.; Seal, S., Eds. American Scientific Publishers: Stevenson Ranch, **2008**, p. 111-131 (Chapter 7). |

##### Op-Eds

##### “[Light Technologies Illuminate Global Challenges](http://theconversation.com/light-technologies-illuminate-global-challenges-35934),” The Conversation, 13 January 2015. Syndicated in “How Investing in Light Technologies can Change Our World,” Longitudes, 18 February 2015. <http://longitudes.ups.com/author/teri-odom/>

1. “[Cheating in Schools is Rampant but there is an Easy Fix](http://www.washingtonpost.com/posteverything/wp/2015/03/13/cheating-in-schools-is-rampant-but-theres-an-easy-fix/),” Washington Post, 13 March 2015. Syndicated in <http://www.winnipegfreepress.com/opinion/analysis/Cheating-a-problem-and-so-is-learning---296251151.html> and <http://www.nhregister.com/opinion/20150315/another-view-to-stop-cheating-in-schools-ditch-the-test>
2. “[Why Altering the Powdered Donuts at Dunkin' Donuts Is Bad for Innovation](http://www.huffingtonpost.com/teri-w-odom/why-altering-the-powdered-donuts-at-dunkin-donuts-is-bad-for-innovation_b_6980816.html),” Huffington Post, 1 April 2015. Also in [Northwestern News Stories Opinion](http://www.northwestern.edu/newscenter/stories/2015/04/opinion-huffpo-odom-donuts.html), 1 April 2015.
3. “[How to Remove Bias from Peer Review](http://chronicle.com/blogs/conversation/2015/05/07/how-to-remove-bias-from-peer-review/),” The Chronicle of Higher Education, 7 May 2015. Also in [Northwestern News Stories Opinion](http://www.northwestern.edu/newscenter/stories/2015/05/opinion-chronicle-odom-bias-peer-review.html), 8 May 2015.
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##### Patents

1. Odom, T.W.; Henzie, J.; Kwak, E.S. “Mesoscale Pyramids, Arrays, and Method of Preparation” (US Patent no. 7,999,353)—issued 16 August 2011
2. Odom, T.W.; Henzie, J.; Kwak, E.S.; Lee, M.H. “Mesoscale Pyramids, Arrays, and Method of Preparation” (US Patent no. 8,048,789)—issued 1 November 2011
3. Odom, T.W.; Lee, M.H.; Huntington, M.D. “Programmable Soft Lithography: Solvent-Assisted Nanoscale Embossing” (US Patent Application no. 13/135,910)—filed 18 July 2011
4. Odom, T.W.; Lee, J.H.; Dam, Duncan. “Aptamer-loaded, Biocompatible Nanoconstructs for Nuclear-targeted Cancer Therapy” (US Provisional Application no. 61/556,663)—filed 7 November 2011
5. Odom, T.W.; Huntington, M.D. “Photolithography System Using a Solid State Light Source” (US Patent Application no. 13/374,262)—filed 19 December 2011
6. Odom, T.W.; Zhou, W. “Band-edge Lattice Plasmon Lasers based on Strongly Coupled Nanocavity Arrays” (US Provisional Application no. 61/835,304)—filed 14 June 2013

##### Invited Presentations

**Research Presentations: 290 to date, 60 international**

**University Colloquia and Seminars (116)**

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| 116. | University of Texas, A&M, “TBD,” November 1, 2016. |
| 115. | University of New Mexico, “TBD,” September 23, 2016. |
| 114. | University of Houston (Electrical and Computer Engineering), “Follow the Nano-brick Road,” April 29, 2016. |
| 113. | Michigan State University (Chemistry), East Lansing, MI. “Gold Nanostars as Probes for Imaging and Therapeutics,” April 18, 2016. |
| 112. | University of Florida (Materials Science), Gainesville, FL. “Squeezing Light into Small Spaces,” April 12, 2016. |
| 111. | Purdue University (Chemistry), Lafayette, IN. “Gold Nanostars as Probes for Imaging and Therapeutics,” October 28, 2015. |
| 110. | Oregon State University (Chemistry), Corvalis, OR. “Gold Nanostars as Probes for Imaging and Therapeutics,” October 14, 2015. |
| 109. | Northwestern University, SPIE, Evanston, IL. “Light-Matter Interactions in Plasmonic Nanocavities,” May 28, 2015. [**Student sponsored seminar**] |
| 108. | University of Southern California (Chemistry), Los Angeles, CA. “Gold Nanostar Probes for Imaging and Therapeutics,” April 24, 2015. |
| 107. | University of Southern California (Materials Science and Engineering), Los Angeles, CA. “Light-Matter Interactions in Plasmonic Nanocavities,” April 23, 2015. [**Distinguished Lecture Series**] |
| 106. | University of Arkansas, Fayetteville, AR. “Gold Nanostar Probes for Imaging and Therapeutics,” April 13, 2015. |
| 105. | Dow Chemical Company, Midland, MI. “Hierarchical Nanomanufacturing,” April 7, 2015. |
| 104. | Gettysburg College, Gettysburg, PA. “Gold Nanostars as Probes for Imaging and Therapeutics,” March 31-April 1, 2015. |
| 103. | Columbia University (Chemistry), New York, NY. “Gold Nanostars as Probes for Imaging and Therapeutics,” February 19, 2015. [**Student Sponsored Seminar**] |
| 102. | University of South Carolina, Columbia, SC. “Gold Nanostars as Probes for Imaging and Therapeutics,” February 13, 2015. |
| 101. | Oklahoma State University, Tulsa, OK. “Gold Nanostars as Probes for Imaging and Therapeutics,” November 6, 2014. |
| 100. | University of Nebraska, Lincoln, NE. “Gold Nanostars as Probes for Imaging and Therapeutics,” October 24, 2014. |
| 99. | University of Toronto, Toronto, Canada. “Gold Nanostars as Probes for Imaging and Therapeutics,” October 21, 2014. |
| 98. | Illinois State University, Normal, IL. “Gold Nanostars as Probes for Imaging and Therapeutics,” September 19, 2014. |
| 97. | BioNanotechnology Summer Institute 2014, UIUC, Champaign, IL. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” July 29, 2014. |
| 96. | ICFO, Barcelona, Spain. “Enhanced Light-Matter Interactions in Strongly Coupled Nanoparticle Arrays,” June 25, 2014. [cancelled because of flight issues] |
| 95. | Georgia Tech (Chemical and Bioengineering), Atlanta, GA. “Making Precious Metals More Precious,” May 21, 2014. |
| 94. | University of California at Santa Barbara (Chemistry), Santa Barbara, CA. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” May 15, 2014. [**DOW Distinguished Lecturer**] |
| 93. | Lehigh University (Chemistry), Bethlehem, PA. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” April 9, 2014. |
| 92. | Florida State University (Chemistry), Tallahassee, FL. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” December 6, 2013. |
| 91. | Massachusetts Institute of Technology (Materials Science), Cambridge, MA. “Enhanced Light-Matter Interactions in Unconventional Nanocavities,” November 21, 2013. |
| 90. | Northwestern University (Cancer Center), Chicago, IL. “Nano Boot Camp for Clinicians,” November 1, 2013. |
| 89. | Chalmers University (Applied Physics), Gothenburg, Sweden. “Nanolasers the Size of Virus Particles,” May 23, 2013. |
| 88. | University of California (Chemistry), Berkeley, CA. “Dalton Award Lecture,” May 10, 2013. |
| 87. | Stanford University (Materials Science and Engineering), Stanford, CA. “Nanolasers with Unconventional Cavity Architectures,” May 3, 2013. |
| 86. | Georgia Tech (Chemistry), Atlanta, GA. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” April 18, 2013. |
| 85. | University of Texas at Austin (Center for Nanomaterials), Austin, TX. “Nanolasers the Size of Virus Particles,” March 27, 2013. |
| 84. | University of Rochester (Chemistry), Rochester, NY. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” March 20, 2013. |
| 83. | Hope College (Chemistry), Holland, MI. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” February 1, 2013. |
| 82. | Calvin College, Grand Rapids, MI. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” January 31, 2013. |
| 81. | Radcliffe Institute of Advanced Study, Harvard University, Cambridge, MA. “Making Precious Metals more Precious,” May 7, 2012. |
| 80. | University of Chicago (Chemistry), Chicago, IL. “Plasmonic Whiplash: Ultra-fast Excitation of Metal Nanoparticles for Drug Delivery and Nanolasing,” March 12, 2012. |
| 79. | University Pierre and Marie, Paris, France. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” January 12, 2012. |
| 78. | Boston University (Chemistry), Boston, MA. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” December 2, 2011. |
| 77. | University of Akron (Chemistry), Akron, OH. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” November 29, 2011. |
| 76. | University of Colorado (Physics), Boulder, CO. “Nanoplasmonics: New Ways to Trap and Squeeze Light in Subwavelength Volumes,” November 11, 2011. |
| 75. | Harvard University (Chemistry), Cambridge, MA. “Accessing the Dark Side of Plasmons through SANE Lithography,” September 8, 2011. |
| 74. | Imperial College (Physics), London, UK. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” July 13, 2011. |
| 73. | University of Pennsylvania, Philadelphia, PA. “Accessing the Dark Side of Plasmons through SANE Lithography,” April 21, 2011. |
| 72. | Simon Fraser University (Chemistry), BC, Canada. “All Things Pyramids: New Platforms for Sensing,” February 23, 2011. |
| 71. | University of British Columbia (Chemistry), Vancouver, BC, Canada. “All Things Pyramids: New Platforms for Imaging and Sensing,” February 22, 2011. |
| 70. | University of Victoria (Chemistry), BC, Canada. “All Things Pyramids: New Platforms for Imaging and Sensing,” February 21, 2011. |
| 69. | Carnegie Mellon University (Materials Science), Pittsburg, PA. “Superlattice and Quasi-3D Plasmonic Crystals,” November 12, 2010. |
| 68. | University of Texas, San Antonio (Physics), San Antonio. “Broadband and 3D Plasmonics: Holes Redux,” November 5, 2010. |
| 67. | University of Buffalo, SUNY (Chemistry), Buffalo, NY. “All Things Pyramids: New Platforms for Real-time Sensing and Imaging,” October 22, 2010. |
| 66. | Indiana University (Chemistry), Bloomington, IN. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” May 19, 2010. |
| 65. | Western Washington University (Materials After Dark), Bellingham, WA. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” May 12, 2010. |
| 64. | University of Minnesota (Nano), Twin Cities, MN. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” May 3, 2010. |
| 63. | Boston College (Chemistry), Chestnut Hill, MA. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” April 29, 2010. |
| 62. | Stevens Institute of Technology (Nano), Hoboken, NJ. “Designing Broadband Plasmonic Crystals,” March 3, 2010. |
| 61. | Purdue University (Chemistry), West Lafayette, IN. “Design and Assembly of Multifunctional Nanopyramidal Shells,” February 24, 2010. |
| 60. | Rensselaer Polytechnic Institute (Physics), Troy, NY. “Superlattice and 3D Plasmonics,” February 17, 2010. |
| 59. | Swarthmore College (Physics and Chemistry), Swarthmore, PA. “All Things Pyramids: a New Nanostructure Shape for Diagnostics and Therapeutics,” November 19, 2009. |
| 58. | Rice University (Chemistry), Houston, TX. “Pyramidal Shells: A Multifunctional, Plasmonic System,” November 4, 2009. |
| 57. | National Institutes of Science and Technology (NIST), Gaithersburg, MD. “Building a Plasmonic Library: Creating Standards for Plasmonic Materials,” October 23, 2009. |
| 56. | Cornell University (Materials Science), Ithaca, NY. “Toward Broadband Plasmonics: Tuning Dispersion in Plasmonic Crystals,” October 8, 2009. |
| 55. | CNSI University of California at Los Angeles, Los Angeles, CA. “Multifunctional Plasmonic Nanopyramids: Opportunities for Biomedical Applications,” June 2, 2009.= |
| 54. | Carolina Center of Cancer Nanotechnology Excellence (CCNE), University of North Carolina, Chapel Hill, Chapel Hill, NC. “Diagnostics and Therapeutics using Multifunctional Nanopyramid Probes,” May 12, 2009. |
| 53. | Case Western University (Physics), Cleveland, OH. “Screening Plasmonic Materials using Pyramidal Gratings,” April 6, 2009. |
| 52. | University of Texas A&M (Chemistry), College Station, TX. “Nanoscale Pyramids: A Unique Platform for Creating Multifunctional Nanomaterials,” November 4, 2008. |
| 51. | University of California at Riverside (Chemistry), Riverside, CA. “Pyramids: A Unique Platform for Creating Multifunctional Nanomaterials,” October 29, 2008. |
| 50. | MIT (Optics and Quantum Electronics), Cambridge, MA. “Designing Hierarchical Plasmonic Metamaterials,” October 22, 2008. |
| 49. | Penn State University (Physics), University Park, PA. “Designing Hierarchical Plasmonic Materials,” September 18, 2008. |
| 48. | New York University (Physics), New York, NY. “Squeezing Light through Tiny Holes,” September 11, 2008. |
| 47. | University of Stuttgart, Stuttgart, Germany. “Designing New Types of Hierarchical Plasmonic Materials,” May 20, 2008. |
| 46. | University of Belfast, Queen’s Nanoscience Forum and the Centre for Nanostructured Media, Belfast, Northern Ireland. “Multiscale Fabrication of Plasmonic Structures,” May 15, 2008. |
| 45. | Rutgers University (Chemistry), New Brunswick, NJ. “Nanoscale Pyramids: A Multifunctional Plasmonic System,” April 22, 2008. |
| 44. | Vanderbilt University (VINSE), Nashville, TN. “Multiscale Patterning of Plasmonic Metamaterials,” April 2, 2008. |
| 43. | California Institute of Technology (Applied Physics), Pasadena, CA. “Multiscale Patterning of Plasmonic Metamaterials,” January 31, 2008. |
| 42. | New York University (Chemistry), New York, NY. “Chemical Nanofabrication: A Bottom-up meets Top-down Approach to Functional Nanomaterials,” January 23, 2008. |
| 41. | Princeton University (Mechanical Engineering), Princeton, NJ. “Making Something out of Nothing: The Hole Story,” January 3, 2008. |
| 40. | Columbia University (Chemistry), New York City, NY. “Making Something out of Nothing: The Hole Story,” November 26, 2007. |
| 39. | University of Northern Iowa (Physics), Cedar Falls, IA. “Plasmonic Metamaterials,” October 10, 2007. |
| 38. | University of Washington (Nano Center), Seattle, WA. “Multiscale Patterning of Plasmonic Metamaterials,” October 2, 2007. |
| 37. | West Virginia University (Chemistry), Morgantown, WV. “Chemical Nanofabrication,” September 26, 2007. |
| 36. | University of South Carolina (Chemistry), Columbia, SC. “Making Something out of Nothing: The Hole Story,” September 14, 2007. |
| 35. | Penn State University (Chemistry), “Manipulating Light at the Nanoscale with Plasmonic Structures,” University Park, PA. April 25, 2007. |
| 34. | University of Utah (Chemistry), Salt Lake City, UT. “Manipulating Light at the Nanoscale with Plasmonic Structures,” April 16, 2007. |
| 33. | University of Notre Dame (Chemistry), Notre Dame, ID. “Manipulating Light at the Nanoscale with Plasmonic Structures,” March 8, 2007. |
| 32. | University of Wisconsin at Madison (Materials Chemistry), Madison, WI. “Manipulating Light in Nanohole Arrays and Pyramids,” December 14, 2006. |
| 31. | Purdue University (Materials Chemistry), West Lafayette, ID. “Manipulating Light in Nanohole Arrays and Pyramids,” December 7, 2006. |
| 30. | Harvard University (Chemistry), Cambridge, MA. “Manipulating Light in Arrays of Nanoholes and Nanoparticles,” November 9, 2006. |
| 29. | Duke University (Chemistry), Durham, NC. “Manipulating Light in Nanohole Arrays and Pyramids,” November 7, 2006. |
| 28. | University of Delaware (Chemistry), Newark, DE. “The Shape of Things Nano,” November 1, 2006. |
| 27. | University of Pennsylvania (Chemistry), Philadelphia, PA. “The Shape of Things Nano,” October 31, 2006. |
| 26. | University of Illinois at Urbana Champaign (Chemistry), Champaign, IL. “Manipulating Light in Nanohole Arrays and Pyramids,” October 25, 2006. |
| 25. | University of Texas at Austin (Chemical Engineering), Austin, TX. “Manipulating Light in Nanohole Arrays and Pyramids,” October 18, 2006. |
| 24. | California Institute of Technology (Chemical Physics), Pasadena, CA. “Manipulating Light in Nanohole Arrays and Pyramids,” October 4, 2006. |
| 23. | University of California at San Diego (Chemistry), San Diego, CA. “The Shape of Things Nano,” October 3, 2006. |
| 22. | Northwestern University (Chemistry Colloquia), Evanston, IL. “Manipulating Light in Nanohole Arrays and Pyramids,” September 22, 2006. |
| 21. | Harvard University (NNI: Synergy between Experiment and Computation in Nanoscale Science), Cambridge, MA. “Manipulating Light in Anisotropic Nanostructures: Hole Arrays and Pyramids,” May 31, 2006. |
| 20. | Stanford University (Chemistry), Stanford, CA. “Manipulating Light in Nanohole Arrays and Nanoparticles,” May 15, 2006. |
| 19. | University of California at Berkeley (Chemistry), Berkeley, CA. “Manipulating Light in Nanohole Arrays and Nanoparticles,” May 8, 2006. |
| 18. | Northwestern University (Materials Science & Engineering Colloquia), Evanston, IL. “Manipulating Light in Nanohole Arrays and Nanoparticles,” April 25, 2006. |
| 17. | Louisiana State University (Chemistry), Baton Rouge, LA. “The Shape of Things,” April 19, 2006. |
| 16. | University of Michigan (Chemistry), Ann Arbor, MI. “Manipulating Light in Nanohole Arrays and Nanoparticles,” April 7, 2006. |
| 15. | Illinois Institute of Technology (Chemistry), Chicago, IL. “Manipulating Light in Nanohole Arrays and Nanoparticles,” April 4, 2006. |
| 14. | Princeton University (Chemical Engineering), Princeton, NJ. “Manipulating Light in Nanohole Arrays and Nanoparticles,” March 13, 2006. |
| 13. | University of Alberta (Chemistry), Edmonton, Canada. “Manipulating Light in Nanohole Arrays and Nanoparticles,” January 24, 2006. |
| 12. | University of Victoria (Chemistry), British Columbia, Canada. “Manipulating Light in Nanohole Arrays and Nanoparticles,” January 23, 2006. |
| 11. | Columbia University (Applied Physics), New York, NY. “Manipulating Light in Nanohole Arrays and Nanoparticles,” November 30, 2005. |
| 10. | City College of New York (Chemistry), New York, NY. “Manipulating Light in Nanohole Arrays and Nanocrystals,” November 7, 2005. |
| 9. | University of Massachusetts at Amherst (Polymer Chemistry), Amherst, MA. “Nanoscale Materials: Synthesis, Patterning, and Photonics,” April 28, 2005. |
| 7. | Marquette University (Chemistry), Milwaukee, WI. “Chemical Synthesis meets Nanofabrication: A New Approach to Patterned Nanostructures,” December 8, 2004. |
| 6. | University of Pennsylvania (Physics Condensed Matter), Philadelphia, PA. “Nanoscale Materials: Synthesis, Patterning, and Photonics,” November 16, 2004. |
| 5. | Northwestern University (MRC and ESAM), Evanston, IL. “Synthesis and Assembly of Inorganic Nanoscale Materials,” August 12, 2004. |
| 4. | University of Chicago (MRSEC seminar), Chicago, IL. “Chemical Synthesis meets Nanofabrication: A New Approach to Patterned Nanostructures,” June 28, 2004. |
| 3. | University of Missouri-Rolla (Chemistry), Rolla, MO. “STM Studies of Single Walled Carbon Nanotubes and Unconventional Nanoscale Patterning,” November 28, 2003. |
| 2. | Northwestern University (Physics Colloquia), Evanston, IL. “STM Studies of Single Walled Carbon Nanotubes and Unconventional Nanoscale Patterning,” October 30, 2003. |
| 1. | Kalamazoo College (Chemistry), Kalamazoo, MI. “Nanoscale and Mesoscale Science,” October 4, 2003. |

**Symposia, Workshops, and Conferences** **(174)**

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| 174. | MRS Spring 2017 Meeting, Phoenix, AZ. April 17-21, 2017. [ED10: Material Platforms for Plasmonics and Metamaterials] |
| 173. | SPIE Optics + Photonics 2016, San Diego, CA. “Designer Nanocavities for Room-temperature Plasmon Nanolasers,” August 28, 2016. |
| 172. | SPIE Optics + Photonics 2016, San Diego, CA. “How Negative Curvature Interfaces Improve the Imaging Properties of Gold Nanoparticles,” August 30, 2016. |
| 171. | SPIE Optics + Photonics 2016, San Diego, CA. “Engineering Ultra-narrow Plasmon Resonances,” August 29, 2016. |
| 169. | PIERS Shanghai, August 7-10, 2016. |
| 169. | PKU International Nanophotonics Workshop, Beijing, China. August 5-6, 2016. |
| 168. | META 2016, Malaga, Spain. July 25-28, 2016. [**Keynote talk**] |
| 167. | EMP16 International Conference on Energy, Materials, and Photonics, Troyes, France. July 10-13, 2016. |
| 166. | Royal Society Seminar, Chicheley Hall, Buckinghamshire, England. “Nanoparticle Lasing Spasers,” June 28-29, 2016. |
| 165. | JUAMI (Joint Undertaking for the Africa Materials Institute), Tanzania. “3D Hierarchical Materials by Memory-based, Sequential Wrinkling” June 6, 2016. |
| 164. | 2016 International Nanotoxicology Congress, Boston, MA. “Overcoming the Endosomal Escape Problem: Lysosome-Targeting Gold Nanostar Nanoconstructs,” June 1-4, 2016. |
| 163. | Annual Conference of the Society of Plastics Engineers (ANTEC), Indianapolis, IN. “3D Hierarchical Materials by Memory-based, Sequential Wrinkling,” May 23-25, 2016. |
| 162. | NSF MPS Site Visit, Northwestern University, Evanston, IL. “Nanoscale Curvature Effects in Anisotropic Nanomaterials,” April 21, 2016. |
| 161. | DSSG 30th Anniversary Symposium, Washington, DC. March 30-31, 2016. |
| 160. | Materials Research Society Spring Meeting, Phoenix, AZ. “Designer Nanocavities for Room-temperature Plasmon Lasing,” March 28-April 1, 2016. [NT1: Functional nanostructures and metamaterials for solar energy and novel optical phenomena] |
| 159. | Materials Research Society Spring Meeting, Phoenix, AZ. March 28-April 1, 2016. [SM7: Future Healthcare Needs through Biomaterials, Bioengineering and the Cellular Building Block] [student Duncan H.M. Dam presented] |
| 158. | APS March Meeting 2016, Baltimore, MD. “Nanoparticle Lasing Spasers,” March 14-18, 2016. |
| 157. | Pittcon 2016, Atlanta, GA. “Real-time Tunable Emission from Plasmonic Nanolasers,” March 6-10, 2016. |
| 156. | IEEE-Nanomed 2015, Waikiki Beach, Hawaii. “Gold Nanostars as Probes for Imaging and Therapeutics,” November 15-18, 2015. [**Keynote speaker**]. |
| 155. | International Materials Research Congress (IMRC), Cancun, Mexico. “Enhanced Light-Matter Interactions in Nanoparticle Arrays,” August 16-20, 2015. [**Plenary speaker**]. |
| 154. | META 15, New York City, NY. “Nano-apertures and Applications.” August 5, 2015. |
| 153. | Taiwan Biannual Plasmonics Symposium, Taipei, Taiwan. “Tunable Nanoparticle Lasing Spasers,” June 15, 2015. [**Plenary speaker**]. |
| 152. | SPP7, Jerusalem, Israel. “Real-time Tunable Lasing from Plasmonic Nanocavities.” May 31-June 5, 2015. |
| 151. | 2015 APS/CNM User’s Meeting, “Room Temperature Lasing from Nanoparticle Arrays.” May 11, 2015. [**Invited speaker**] |
| 150. | Northwestern representative for NSF lobbying event at Congress. Washington, DC. “Structured Nanoscale Materials with Extraordinary Properties,” April 29, 2015. |
| 149. | Robert H. Lurie Cancer Center Symposium, Evanston, IL. “Investigating Protein-Ligand Interactions via Gold Nanostar Probes.” April 10, 2015. |
| 148. | ACS Spring Meeting, Denver, CO. “Energy Conversion within a Single Nanocavity Structure” [PHYS], March 22-25, 2015. |
| 147. | ACS Spring Meeting, Denver, CO. “Enhanced Light-Matter Interactions in Nanoparticle Arrays” [COLL, Metallic Nanostructures for Optical &electrochemical Sensing and Alternative Energy Conversion], March 22-25, 2015. |
| 146. | ACS Spring Meeting, Denver, CO. “Plasmonic Hetero-Oligomer Nanoparticle Arrays for Hydrogen Sensing” [COLL, Plasmonic Catalysis and Sensing], March 22-25, 2015. |
| 145. | NanoMeta, Seefeld (Tirol), Austria. “Tunable Nanoparticle Lasing Spasers,” January 5-8, 2015. |
| 144. | NSF Nano Grantees Conference, Arlington, VA. “Prospects in Plasmonics,” December 9-10, 2014. |
| 143. | AVS 61st International Symposium & Exhibition, Baltimore, MD. “Enhanced Light-Matter Interactions in Nanoparticle Arrays,” November 10, 2014. |
| 142. | IEEE Photonics Meeting, San Francisco, CA. “Room Temperature Plasmonic Nanolasers,” October 13, 2014. |
| 141. | NCI Alliance Meeting, Bethesda, MD. “Rational Design of Nanomaterials,” October 1-3, 2014. |
| 140. | Blavatnik Young Scientists Symposium, New York, NY. September 15, 2014. |
| 139. | NFO-13, Snowbird, UT. “Heterogeneous Plasmonic Oligomers,” September 1-3, 2014. |
| 138. | ACS Fall Meeting, San Francisco, CA. “Gold Nanostars as Probes for Imaging and Therapeutics,” August 10-14, 2014. |
| 137. | Research Corporation Cottrell Scholars, Tucson, AZ. July 10-12, 2014. |
| 136. | Gordon Research Conference, Plasmonics, Newry, ME. “Fabrication of Unconventional Nanocavity Architectures,” July 6-11, 2014. |
| 135. | Gordon Research Conference, Noble Metal Nanoparticles, South Hadley, MA. “Designer Gold Nanostars for Imaging and Therapeutics,” June 15-20, 2014. |
| 134. | 6th International Symposium on Bioanalysis, Biomedical Engineering and Nanotechnology 2014, Changsha, China. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” May 29-June 1, 2014. |
| 133. | MRS Spring Meeting, San Francisco, CA. “Enhanced Light-Matter Interactions in Unconventional Nanocavities,” April 21-25, 2014. |
| 132. | APS March Meeting, Denver, CO. “Prospects of Omnidirectional Substrates for Light Trapping,” March 3-7, 2014. |
| 131. | ASME 2014 3rd Global Congress on NanoEngineering for Medicine and Biology (NEMB2014), San Francisco, CA. “Gold Nanostars as Drug Delivery Agents for Nanomedicine,” February 2-5, 2014. |
| 130. | US-France Nanophotonics Workshop, Troyes, France. “Enhanced Light-Matter Interactions in Unconventional Nanocavities,” November 3-7, 2013. |
| 129. | American Vacuum Society, Long Beach, CA. “Plasmonic Quasicrystals,” October 27-30, 2013. *Alex Hryn substituted.* |
| 128. | Research Corporation Scialog, Tucson, AZ. “Prospects of Omnidirectional Substrates for Light Trapping,” October 15-18, 2013. |
| 127. | 25th Packard Fellows Reunion, Denver, CO. “Manipulating Light at the Nanoscale,” September 11-15, 2013. |
| 126. | ACS Fall Meeting, Indianapolis, ID. “Multi-scale Plasmonic Nanoparticles and the Inverse Problem,” September 9-12, 2013. |
| 125. | SPIE Plasmonics, San Diego, CA. “Enhanced Light-Matter Interactions in Nanoparticle Arrays,” August 25-29, 2013. |
| 124. | Quantum Plasmonics, Washington DC. “Lattice Plasmon Nanolasers,” August 21-23, 2013. |
| 123. | Research Corporation Cottrell Scholars, Tucson, AZ. July 10-13, 2013. |
| 122. | US-Israel Kavli Frontiers of Science Symposium, Irvine, CA. “Nanolasers the Size of Virus Particles,” June 17-18, 2013. *Sponsored by the NAS and Kavli Foundation.* |
| 121. | Faculty Opponent for Chalmers University PhD Defense, Gothenburg, Sweden. “Biosensor Sense,” May 24, 2013. |
| 120. | AMN-6 conference, Auckland, New Zealand. “Nanolasers the Size of Virus Particles,” February 11-15, 2013. [**Plenary speaker**] |
| 119. | IUMRS-ICEM 2012, Yokohama, Japan. “Nanoplasmonics: New Ways to Trap and Squeeze Light into Subwavelength Volumes,” September 23-28, 2012. [**Plenary speaker**] *Robert P.H. Chang substituted.* |
| 118. | ACS Fall Meeting, Philadelphia, PA. “Room Temperature Plasmonic Nanolasers,” August 24-29, 2012. |
| 117. | Gordon Research Conference, Noble Metal Nanoparticles, South Hadley, MA. “Room Temperature Plasmonic Lasers,” June 17-22, 2012. |
| 116. | Gordon Research Seminar, Noble Metal Nanoparticles, South Hadley, MA. “Gold Nanostars as Tiny Hitchhikers for Cancer Therapeutics,” June 16-17, 2012. [**Keynote speaker**] |
| 115. | International Conference on the Nanostructure-Enhanced Photo-Energy Conversion (Yamada Conference LXVI), Tokyo, Japan. “Plasmonic Nanolasers,” June 3-6, 2012. |
| 114. | E-MRS Spring Meeting, Strasbourg, France. “Extraordinary Nonlinear Absorption in 3D Bowtie Nanoantennas,” May 14-20, 2012. |
| 113. | META 12, Paris, France. “Light Trapping in Nanoparticle Arrays beyond the Quasistatic Limit,” April 19-22, 2012. |
| 112. | META 12, Paris, France. “Programmable Soft Lithography for Scalable Plasmonics,” April 19-22, 2012. |
| 111. | ACS Spring Meeting, San Diego, CA. “Plasmonic Nanocavities: New Ways to Squeeze Light into Subwavelength Volumes,” March 28, 2012. |
| 110. | ACS Spring Meeting, San Diego, CA. “Towards Omnidirectional Plasmonic Substrates for Light Trapping,” March 27, 2012. |
| 109. | African MRS Meeting, Victoria Falls, Zimbabwe. “Benchtop Photolithography,” December 15, 2011. |
| 108. | ACS Akron Section Award, Akron, OH. “All that Glitters is Nanoscale Gold,” November 29, 2011. |
| 107. | AVS Meeting, Nashville, TN. “A SANE Approach to Programmable Soft Lithography,” November 1-4, 2011. |
| 106. | AIChE Meeting, Minnesota, MN. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” October 16-20, 2011. |
| 105. | NIH Director’s Pioneer Meeting, Bethesda, MA. “Designing Plasmonic Lenses for Optical Bioimaging,” September 20-21, 2011. |
| 104. | Optics of Surfaces and Interfaces 9, Akumal, Mexico. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” September 19-23, 2011. |
| 103. | US-China International Materials Institute Meeting, Sichuan University, Chengdu, China. “Sustainable, Scalable Generation of Nanostructured Surfaces,” September 15-16, 2011. |
| 102. | ACS Fall Meeting, Denver, CO. “Trapping Light in Strongly Coupled Nanoparticle Arrays by Dark Plasmons,” August 29, 2011. |
| 101. | ACS Fall Meeting, Denver, CO. “Designing Multi-scale Nanomaterials for Sensing and Imaging,” August 30, 2011. |
| 100. | ACS Fall Meeting, Denver, CO. “Controlling Protein-Ligand Kinetics using 3D Plasmonic Materials,” August 30, 2011. |
| 99. | Cottrell Scholars Conference, Tucson, AZ. July 6-8, 2011. |
| 98. | NSF Summer Institute on Nanomechanics, Nanomaterials, and Micro/Nanomanufacturing, Chicago, IL. “Nanomanufacturing of Nanostructured Surfaces for Energy Applications,” June 30, 2011. |
| 97. | Northwestern University Clinical and Translational Sciences, Evanston, IL. “Identifying Cancer Cells: Multifunctional Gold Nanopyramid Probes,” May 18, 2011. |
| 96. | STEM and Nanoscience, Washington, DC. May 12-13, 2011. |
| 95. | NIH Innovation Brainstorm: Transforming Discovery into Impact, Potomac, MD. May 4-6, 2011. |
| 94. | Society of Manufacturing Engineers, Chicago, IL. “Programmable Soft Lithography: Solvent-Assisted Nanoscale Embossing,” April 5, 2011. |
| 93. | 3M, Minneapolis, MN. “Programmable Soft Lithography: Solvent-Assisted Nanoscale Embossing,” March 31, 2011. |
| 92. | ACS Chicago Section, Chicago, IL. “All Things Pyramids: New Platforms for Imaging and Sensing,” February 24, 2011. |
| 91. | Pacifichem 2010, Honolulu, HI. “Concentrating Light using Anisotropic Nanopyramidal Shells” in *Nanostructure-Enhanced Photochemical Reactions*, December 15-20, 2010. |
| 90. | Pacifichem 2010, Honolulu, HI. “Designing Plasmonic Crystal Platforms for Ultra-sensitive Biosensing” in *Molecular Photonics*, December 15-20, 2010. |
| 89. | Japanese-American Kavli Frontiers of Science Symposium, Kanagawa, Japan. December 2-5, 2010. *Sponsored by the NAS, Kavli Foundation, and JSPS.* |
| 88. | National Academies Keck Future Initiatives 2010 Imaging Sciences, Irvine, CA. November 17-19, 2010. *Sponsored by the National Academies and Keck Foundation.* |
| 87. | Chicago Section of the Society of Applied Spectroscopy (SAS), Chicago, IL. November 9, 2010. |
| 86. | AVS Meeting, Albuquerque, NM. “Unconventional and Broadband Plasmonics,” October 17-20, 2010. |
| 85. | NIH Director’s Pioneer Meeting. September 30-October 1, 2010. |
| 84. | International Materials Institute, 3rd US-China Meeting, Beijing, China. September 18-24, 2010. |
| 83. | ISACS2 2010, Budapest, Hungary. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” July 13-16, 2010. [**Keynote Lecture**] |
| 82. | CSC 2010, Toronto, Canada. “Concentrating Light in 3D using Anisotropic Gold Nanopyramids,” May 29-June 1, 2010. |
| 81. | 3M, Twin Cities, MN. “Superlattice and Quasi-3D Plasmonic Crystals,” May 4, 2010. |
| 80. | Transition Metal Chalcogenide and Halide Nanostructures 2010, Tel Aviv, Israel. “Synthesizing TaS2 Nanotubes Starting from Ta2O5 Nanotube Templates,” April 25-27, 2010. [**Keynote Lecture**] |
| 79. | SPIE Europe 2010, Brussels, Belgium. “Superlattice and Low Symmetry Plasmonic Crystals,” April 12-16, 2010. |
| 78. | MRS Spring Meeting 2010, San Francisco, CA. “Controlling Dispersion in Nanoparticle Arrays,” April 4-8, 2010. |
| 77. | EUROPT(R)ODE X, Prague, Czech Republic. “Designing Plasmonic Crystals for Ultra-sensitive Molecular Sensing,” March 28-31, 2010. [**Keynote Lecture**] |
| 76. | Africa MRS Meeting, Abuja, Nigeria. “Unconventional Plasmonic Materials,” December 14-18, 2009. |
| 75. | Fourth Annual NCI Alliance for Nanotechnology in Cancer Investigators Meeting, Manhattan Beach, CA. “Wide Field Imaging of Nanopyramid Probes to Detect Biomarkers,” October 21, 2009. |
| 74. | NIH Director’s Pioneer Meeting, Bethesda, MD. “Sub-cellular Imaging using Plasmonic Lenses,” September 24-25, 2009. |
| 73. | JNCASR-NU Workshop, Bangalore, India. “Screening Materials with Nanopyramid Arrays,” September 1-2, 2009. |
| 72. | ACS Fall Meeting 2009, Washington, DC. “Nanopyramidal Gratings as Ultrasensitive Detection Platforms,” August 16-20, 2009. |
| 71. | SPIE Plasmonics: Nanoimaging, Nanofabrication, and their Applications IV, San Diego. “Designing Hierarchical Plasmonic Materials,” August 2-6, 2009. |
| 70. | Clusters, Nanocrystals, and Nanostructures Gordon Research Conference, New London, CT. “Materials Expansion and Applications of Quasi-3D Plasmonic Lattices,” July 19-24, 2009. |
| 69. | NSF CMMI Engineering Research and Innovation Conference 2009, Honolulu, HI. June 22-25, 2009. |
| 68. | German-American Kavli Frontiers of Science Symposium, Irvine, CA. “Are We There Yet? On the Road to a Technology Based on Nanoscience,” June 5-7, 2009. *Sponsored by the NAS, Kavli Foundation, and von Humboldt Foundation.* |
| 67. | EIPBN Meeting 2009, Marco Island, FL. “Designing Hierarchical and Quasi-3D Plasmonic Lattices,” May 26-29, 2009. |
| 66. | George C. Schatz 60th Birthday Celebration, Evanston, IL. “The Hole Story: Working with George in New Directions,” April 17, 2009. |
| 65. | MRS Spring Meeting 2009, San Francisco, CA. “Designing Asymmetric and Multifunctional Plasmonic Particles,” April 16, 2009. |
| 64. | MRS Spring Meeting 2009, San Francisco, CA. “Screening Plasmonic Materials using Quasi-3D Plasmonic Lattices,” April 14, 2009. [**MRS Outstanding Young Investigator Award address**] |
| 63. | ACS Spring Meeting 2009, Salt Lake City, UT. “National Fresenius Award Symposium,” March 22-26, 2009. [**National Fresenius Award address**] |
| 62. | Japan-American Kavli Frontiers of Science (FOS) Symposium, Irvine, CA. December 5-7, 2008. *Sponsored by the NAS, Kavli Foundation, and JSPS.* |
| 61. | NSF-MEXT Young Researchers Exchange Program, Japan. October 5-11, 2008. |
| 60. | NIH Director’s Pioneer Award Symposium, Bethesda, MA. September 22-23, 2008. |
| 59. | 2008 Packard Foundation Fellows Meeting, Park City, UT. “Squeezing Light through Tiny Holes,” September 3-6, 2008. |
| 58. | SPIE Plasmonics: Nanoimaging, Nanofabrication, and their Applications IV, San Diego. “Designing Hierarchical Plasmonic Materials,” August 10-14, 2008. |
| 57. | Solid State Chemistry Gordon Research Conference, New London, NH. “Chemical Nanofabrication,” July 27 – August 1, 2008. |
| 56. | EPSCOR Program Review, Oak Ridge National Lab, Oak Ridge, TN. “Directing Matter and Energy: Five Challenges for Science and the Imagination,” July 23, 2008. |
| 55. | Integrated Photonics and Nanophotonics Research and Applications Topical Meeting, Boston, MA. “Multiscale Fabrication and Properties of Plasmonic Nanostructures,” July 13-16, 2008. |
| 54. | Center for Nanoscale Materials Users Facility Meeting, Argonne National Labs. May 7, 2008. |
| 53. | ACS Spring Meeting 2008, New Orleans, LA. “Refractive Index Sensing with Plasmonic Metamaterials,” April 6-10, 2008. |
| 52. | Jawaharlal (JNC, India)-Northwestern Workshop on Advanced Materials, Evanston, IL. “Chemical Nanofabrication: A New Route to Inorganic Nanomaterials,” March 31-April 1, 2008. |
| 51. | MRS Spring Meeting 2008, San Francisco, CA. “Plasmonic Metamaterials: Fabrication and Characterization,” March 24-28, 2008. |
| 50. | NSF-MEXT Young Researchers Exchange Program Symposium, Northwestern University, Evanston, IL. “Pyramidal Nanoparticles: A New Plasmonic System,” March 11-12, 2008. |
| 49. | Indo-US Science and Technology, Bhubaneshwar, India. “Science and Technology at Nano-Bio Interface,” February 19-22, 2008. |
| 48. | African Materials Research Society, Dar-Es-Salaam, Tanzania. “Plasmonic Metamaterials,” December 10-14, 2007. |
| 47. | Japan-American Kavli Frontiers of Science (FOS) Symposium, Kanagawa, Japan. “Frontiers in Optical Materials,” December 1-3, 2007. |
| 46. | Northwestern University (Small Business Evaluation and Entrepreneur), Evanston, IL. “Multiscale Fabrication of Plasmonic Structures,” November 12, 2007. |
| 45. | Rohm and Haas, Marlborough, MA. “Multiscale Patterning of Plasmonic Metamaterials,” September 17, 2007. |
| 44. | 2007 Packard Foundation Fellows Meeting, Monterey, CA. September 5-8, 2007. |
| 43. | ACS Fall Meeting, Boston, MA. “Multi-scale Fabrication of Plasmonic Metamaterials,” August 19-23, 2007. |
| 42. | Electronic Materials Gordon Conference, South Hadley, MA. July 22-27, 2007. |
| 41. | Inorganic Chemistry Gordon Conference, Newport, RI. July 15-20, 2007. |
| 40. | Cottrell Scholar Conference, Tucson, AZ. July 6-7, 2007. |
| 39. | SPP3 Conference, Dijon, France. “Large-area Fabrication of Nanohole Arrays and Nanoparticles,” June 17-22, 2007. |
| 38. | Northwestern University (Industrial Associates Meeting), Evanston, IL. “NanoManufacturing of Plasmonic Structures,” May 10, 2007. |
| 37. | The Electrochemical Society (ECS), “Nanoscale Pyramids: Fabrication, Manipulation, and Functionalization,” Chicago, IL. May 7, 2007. |
| 36. | FNANO07, Snowbird, UT. “Plasmonic Nanostructures: Arrays of Holes and Particles,” April 18-21, 2007. |
| 35. | Materials Research Society (MRS) Spring Meeting, San Francisco, CA. “Large-area Nanofabrication of Plasmonic Nanostructures,” April 13, 2007. |
| 34. | ACS Spring Meeting, Chicago, IL. “Pyramidal Nanoparticles: Fabrication, Characterization, and Functionalization,” March 25, 2007. |
| 33. | Society of Manufacturing Engineers Conference, Chicago, IL. “Large-Area NanoManufacturing of Photonic and Plasmonic Nanostructures,” March 14, 2007. |
| 32. | Africa-US Workshop on Frontiers in Materials Research and Education, Abuja, Nigeria. “Synthesis of Functional Nanostructures,” January 21-25, 2007. |
| 31. | DuPont, Philadelphia, PA. “Chemistry meets Nanofabrication: Patterned Nanoscale Materials,” October 30, 2006. |
| 30. | US-Ireland Nanotechnology Workshop (NSF), Belfast, UK. “Directed Assembly of Nanostructures over Large Areas,” October 22-23, 2006. |
| 29. | ACS Fall Meeting (ExxonMobil Solid State Chemistry Symposium), San Francisco, CA. “Chemistry meets Fabrication: Patterned Nanoscale Materials,” September 12, 2006. |
| 28. | Packard Foundation Fellows Meeting, Monterey, CA. September 6-9, 2006. |
| 27. | Plasmonics Gordon Research Conference (GRC), Keene, NH. “Large-area Subwavelength Hole Arrays,” July 27, 2006. |
| 26. | Nanostructure Fabrication Gordon Research Conference (GRC), Tilton, NH. “Large-area Patterning of Optical Nanostructures,” July 20, 2006. |
| 25. | German-American Frontiers of Science (FOS) Symposium, “Manipulating Light in Nanohole Arrays and Pyramids,” June 23-25, 2006. [**Selected as one of top 40 young U.S. scientists; sponsored by the NAS and Alexander von Humboldt Foundation**] |
| 24. | Society of Manufacturing Engineers Conference, Los Angeles, CA. “Innovative Approaches to Nanofabrication and Assembly using Top-down and Bottom-up Manufacturing Methods,” March 28, 2006. |
| 23. | US-China Nanotechnology Workshop (NSF), Washington, DC. “Manipulating Light in Nanohole Arrays,” March 23, 2006. |
| 22. | NSF Workshop: Synthesis of Complex Chemical Systems, Oxford, England. “Pyramidal Nanoparticles,” March 19-21, 2006. [**Selected as one of twelve young U.S chemists for workshop**] |
| 21. | 13th Annual Foresight Conference, San Francisco, CA. “Novel Methods of Nanoscale Fabrication and Assembly,” October 27, 2005. |
| 20. | Packard Foundation Fellows Meeting, Monterey, CA. September 7-10, 2005. |
| 19. | National Nanotechnology Initiative (NNI) Workshop: X-rays and Neutrons: Essential Tools for Nanoscience Research, Washington, DC, “Synthesis of Nanostructures: Opportunities for Scattering Methods,” July 16, 2005. |
| 18. | Emerging Technologies for Bio and Chemical Sensing (US Government), Washington, DC. “Nanotechnologies for Sensor Applications,” June 15, 2005. |
| 17. | NIH Director’s Pioneer Meeting, Bethesda, MD. “Sub-cellular Imaging using Plasmonic Lenses,” September 24-25, 2009. |
| 16. | CERC3 – Young Chemists Workshop (NSF), Baden-Baden, Germany. “Nanoscale Materials: Synthesis, Patterning, and Photonics,” May 2-5, 2005. [**Nominated by NSF and selected by European organizing committee as one of four U.S. young chemists**] |
| 15. | GDEST: Sensors and Sensor Systems: A US-Japan Dialogue, “Nanomaterials meets Nanofabrication: Prospects for Sensor Applications,” February 28 – March 2, 2005. [**Sponsored by the National Academy of Sciences (NAS)**] |
| 14. | Argonne National Lab (Materials Science), Argonne, IL. “New Approaches to the Synthesis and Assembly of Nanoscale Materials,” November 15, 2004. |
| 13. | Packard Foundation Fellows Meeting, Monterey, CA. “Synthesis and Patterning of Nanoscale Materials,” September 1-4, 2004. |
| 12. | German-American Frontiers of Chemistry Symposium, Munich, Germany. “Nanoscale Photonics,” July 11-13, 2004. [**Selected as one of top 25 young U.S. chemists; sponsored by the NSF and German Chemical Society**] |
| 11. | US-UK Frontiers of Science (FOS) Symposium, Cambridge, England. “Optical Properties of Surface Patterned Nanostructures,” June 19-22, 2004. [**Selected as one of top 40 young U.S. scientists; sponsored by NAS and the Royal Society**] |
| 10. | US-China Nanotechnology Forum (NSF), Beijing, China. “Optical Properties of Surface Patterned Nanostructures,” May 13, 2004. |
| 9. | International Nanotech Workshop, Venice, Italy. “Institute for Nanotechnology,” March 15, 2004. |
| 8. | ACS Chicago Section Meeting, Chicago, IL. “Nanoscale and Mesoscale Science,” January 23, 2004. |
| 7. | 1st Korea-US NanoForum (NSF), Seoul, Korea. “Nanoscale Science and Engineering Center,” October 10-13, 2003. |
| 6. | 77th **ACS Colloid and Surface Chemistry Symposium, Atlanta, GA.** “STM Studies of Single Walled Carbon Nanotubes,” **June 2003. [Plenary talk for Victor K. LaMer award for best thesis in surface chemistry]** |
| 5. | ACS Greater Lakes Meeting, Chicago, IL. “Generation of 30-50 nm Structures using Composite PDMS Masks,” June 2, 2003. |
| 4. | World Chemistry Congress/IUPAC Joint Meeting, Brisbane, Australia. “Electronic Properties of Single Walled Carbon Nanotubes,” June 28 – July 9, 2001. [**IUPAC Prize for best international thesis in the chemical sciences**] |
| 3. | American Physical Society (APS) March Meeting, Seattle, WA. “STM Studies of Single Walled Carbon Nanotubes,” March 23, 2000. |
| 2. | Molecular Electronics 2000, Kona, HI. “Single-Walled Carbon Nanotubes: From Fundamental Properties to New Device Concepts,” December 10, 2000. |
| 1. | American Chemical Society (ACS) Fall Meeting, Boston, MA. “Electronic Properties of Single Walled Carbon Nanotubes,” August 24, 1998. |

**Research Presentations (Contributed)**

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| 9. | Near-field Optics (NFO-13), Snowbird, Utah. “Heterogeneous Plasmonic Oligomers,” August 31- September 4, 2014. |
| 8. | ACS Fall Meeting, Boston, MA. “Infinite and Microscale Patches of Nanohole Arrays: A Scalable Platform for Refractive Index Sensing with Increased Sensitivity,” August 20, 2007. |
| 7. | MRS Spring Meeting, San Francisco, CA. “Soft Interference Lithography,” April 13, 2007. |
| 6. | Clusters, Nanocrystals, and Nanostructures Gordon Research Conference, New London, CT. “Patterned Nanoscale Materials and Structures,” July 31 - August 5, 2005. |
| 5. | Purdue-INAC Workshop, West Lafayette, ID. “Metallic Nanostructures: Pyramids and Nanohole Arrays,” July 25, 2005. |
| 4. | ACS Spring Meeting, San Diego, CA. “Mass-limited Growth in zL-Beakers: A General Approach for the Synthesis of Nanocrystals,” March 16, 2005. |
| 3. | ACS Spring Meeting, San Diego, CA. “Synthesis of Nanoscale Metal Chalcogenides by Soft Chemical Methods,” March 15, 2005. |
| 2. | Solid State Chemistry I Gordon Research Conference, New London, NH. July 25-30, 2004. |
| 1. | Clusters and Nanocrystals Gordon Research Conference, New London, CT. August 3-8, 2003. |

**Education and Outreach Presentations (Accepted): 47 to date, 5 international**

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| 47. | World Intellectual Property Organization (WIPO) visit to the International Institute of Nanotechnology (IIN), Northwestern University, Evanston, IL. “A Gentle Introduction to Nano,” June 16, 2016. |
| 46. | Senate Science Forum, Washington, DC. May 10, 2016. |
| 45. | Chicago Collaboration for Women in STEM (CWIS) Career Development and Leadership Retreat, Naperville, IL. March 3-4, 2016. |
| 44. | We Will Campaign, Traveling Classroom, Los Angeles, CA. “Making Precious Metals More Precious,” February 20, 2016. |
| 43. | Gettysburg College, Gettysburg, PA. “The Colorful Nanoworld,” March 31, 2015. |
| 42. | University of California at Santa Barbara, Santa Barbara, CA. “It takes a Village: How your Community Affects your Success,” May 16, 2014. |
| 41. | IUMRS-ICEM 2012, Yokohama, Japan. “Educational Forum: Benchtop Nanoscale Experiments,” September 26, 2012. [**Keynote Speaker**]*Christina Sweeney substituted.* |
| 40. | Northwestern University, Evanston, IL (MRSEC REU program). “Odom Group Research: Making Precious Metals more Precious,” April 28, 2012. |
| 39. | Research Corporation Cottrell Scholars Conference, Tucson, AZ. “Taking Graduate Student Training Seriously,” July 22-24, 2010. |
| 38. | Symposium on Undergraduate Nano-Education: Addressing the Challenges of Nanoscale Science & Engineering Education, SUNY-Albany, NY. August 5-9, 2009. |
| 37. | Current Events Class of Evanston, Evanston, IL. “Nano and You: Evaluating the Promise of Nanotechnology,” May 21, 2009. |
| 36. | Fireside at Slivka Hall, Northwestern University, Evanston, IL. “Nanotechnology and Color,” May 20, 2009. |
| 35. | FNANO09, Snowbird, UT. “Designing Research-based Courses for Undergraduates, Nanoscience Modules for High School Students, and Hands-on Activities for the Developing World,” April 20-21, 2009. |
| 34. | Science Café at the Wilmette Public Library, Wilmette, IL. “The Colorful Nanoworld,” March 11, 2009. |
| 33. | Undergraduate Chemistry Council, Northwestern University, Evanston, IL. “Nanoscale Pyramids: New Opportunities for Multifunctional Nanomaterials,” February 26, 2009. |
| 32. | Survival Skills Program, Women’s Center, Northwestern University, Evanston, IL. February 25, 2009. |
| 31. | 1st Alexandria International Congress on Tissue Engineering, Alexandria, Egypt. “Benchtop Nanoscale Experiments,” February 14-16, 2009. |
| 30. | Global Nanoscale Science and Engineering Education (NSEE) Workshop, Washington, DC. “Nanopatterning: Plasmonics and the NCLT,” November 13, 2008. |
| 29. | 2008 Chicago Humanities Festival: THINKING BIG, Chicago, IL. November 2, 2008. |
| 28. | Cottrell Scholars Symposium, Tucson, AZ. July 10-11, 2008. |
| 27. | Research Experience for Undergraduates and Teachers Program, Evanston, IL “The Colorful Nanoworld,” July 9, 2008. |
| 26. | Science Research Workshops, Northwestern University, Evanston, IL. “How to Write Undergraduate Research Proposals,” February 27, 2008. |
| 25. | Museum of Science and Industry and University of Chicago, Chicago, IL. “Innovations in Nanotechnology,” January 26, 2008. |
| 24. | Africa MRS 2007, Dar Es Salaam, Tanzania. “Nanoscale Patterning using Soft Lithography,” December 10-15, 2007. |
| 23. | Sigma Xi Lecture, University of Northern Iowa, Cedar Falls, IA. “The Colorful Nanoworld,” October 9, 2007. |
| 22. | Undergraduate Chemistry Council, Northwestern University, Evanston, IL. “Plasmonic Metamaterials,” May 17, 2007. |
| 21. | ACS Spring Meeting, Chicago, IL. “Nanotechnology Research-based Courses for Freshmen and Sophomores,” March 25, 2007 |
| 20. | Compton Lecture Series, University of Chicago, Chicago, IL. “The Colorful Nanoworld,” October 28, 2006. |
| 19. | Chicago Science Expedition: Nanotechnology: Thinking Big and Building Small, Harold Washington College, Chicago, IL. “The Colorful Nanoworld,” October 5, 2006. |
| 18. | NCLT Professional Development, Evanston, IL. “Introduction to Nanofabrication,” August 8, 2006. |
| 17. | NSF Summer Institute on Micro and Nanodevices, Evanston, IL. “Large Scale NEMS Fabrication – Directed Self-Assembly,” August 7, 2006. |
| 16. | Cottrell Scholars Symposium (keynote speaker), Tucson, AZ. “Designing Research-based Courses at the Undergraduate Level,” July 6, 2006. |
| 15. | ACS Fall Meeting (NSF Broader Impacts Symposium), Washington, DC. “Research Experience for Teachers Program,” August 28-September 1, 2005. |
| 14. | Materials World Network: Next 10 Years, Cancun, Mexico. “Strategy Summary for Next Ten Years,” August 22, 2005. |
| 13. | Nanoscale Center for Learning and Teaching (NCLT) Professional Development, Evanston, IL. “Introduction to Nanofabrication,” July 22, 2005. |
| 12. | ASME Nano Bootcamp, Evanston, IL “Nanowires and Nanoparticles,” June 15, 2005. |
| 11. | Research Experience for Undergraduates (REU) and RET Program, Evanston, IL “Nanoscience and Nanotechnology: An Introduction,” June 29, 2005. |
| 10. | NSF Summer Institute on NanoMechanics and Materials, Evanston, IL. “Methods of Nanoscale Synthesis and Characterization,” June 20, 2005. |
| 9. | 3rd International Workshop to Develop a Global Nanotechnology Network, Saarbrucken, Germany. “Nanoscience Education and Nanotechnology at Northwestern,” May 25-27, 2005. |
| 8. | Undergraduate Chemistry Council, Northwestern University, Evanston, IL. “Synthesis and Patterning of Nanomaterials,” April 21, 2005. |
| 7. | American Institute of Chemical Engineers (AIChE) Chicago Section, Chicago, IL. “Introduction to Nanotechnology: Synthesis and Assembly of Nanomaterials,” April 20, 2005. |
| 6. | Research Experience for Teachers (RET) Program, Evanston, IL. “Nanoscience and Nanotechnology: An Introduction,” June 28, 2004. |
| 5. | ASME Nano Bootcamp, Evanston, IL “Nanowires and Nanoparticles,” June 14, 2004. |
| 4. | ACS Spring Meeting, Los Angeles, CA. “Educational Outreach through the Center for Integrated Nanopatterning and Detection Technologies,” March 29, 2004. |
| 3. | Lawrence University (Keynote speaker for Nanoscience in Education), Appleton, WI. “Research and Education in Nanoscale Science,” March 17, 2004. |
| 2. | NSF RET Workshop for High School Teachers, Illinois Institute of Technology, Chicago, IL. “Research Experience for Teachers,” September 8, 2003. |
| 1. | American Society of Mechanical Engineers (ASME) Nano Bootcamp, Evanston, IL. “Nanowires and Nanoparticles,” July 11, 2003. |

**Educational Hands-on and Online Video Modules (selected)**

1. NSF Materials World Modules (MWM) on *Nanopatterning*: <http://www.materialsworldmodules.org/modules/nanopatterning.shtml>
2. Unconventional patterning at the nanoscale (online lab module): <http://community.nsee.us/index.php?option=com_content&view=article&id=330>
3. Microcontact printing and replica molding (online lab module): <http://community.nsee.us/index.php?option=com_content&view=article&id=251> as well as [pdf copy](http://community.nsee.us/concepts_apps/nanopatterning/notebook.pdf) of notebook.

##### Recorded and Posted Lectures

1. Public Voices Fellowship 2014-2015: <https://www.youtube.com/watch?v=W_3JZiYUnwo&feature=youtu.be>
2. Frontiers in optical materials (Japan-American Kavli Frontiers of Science 2007, Frontiers in Optical Materials): <http://vimeo.com/60486867>
3. Are we there yet? The road to a technology based on nanoscience (German-American Kavli Frontiers of Science 2009, Nanotechnology: Dream or Reality?): <http://vimeo.com/31118486>
4. Nanolasers the size of virus particles (US-Israel Kavli Frontiers of Science 2013, Nanophotonics and the Art of Invisibility): <http://vimeo.com/73963470>
5. Nano-basics for clinicians and gold nanostars as tiny hitchhikers for cancer therapeutics (International Institute of Nanotechnology 2013 Nanotechnology Boot Camp for Clinicians): <https://www.youtube.com/watch?v=Eu9an5f5qas>

##### Other Publicity

1. Odom quoted in work focused on “Seeing Nanoparticles in 3D within Animal Tissues” from [medGadget](http://www.medgadget.com/2016/04/seeing-nanoparticles-in-3d-within-animal-tissues.html), April 29, 2016.
2. Our work on sequential nanowrinkling was featured in [Science](http://www.sciencemag.org/content/349/6250/twil.full#compilation-1-1-article-title-1), August 21, 2015 and Nanowerk.com (3D nanopatterning with memory-based, sequential wrinkling, <http://www.nanowerk.com/spotlight/spotid=40956.php>)
3. Odom discussed significance of a WSe2 monolayer-photonic crystal cavity laser with Gabriel Spitzer and KPLU (one of the NPR stations in Seattle) on March 25, 2015.
4. Our work on how gold nanostars can enhance the relaxivity of MRI contrast agents was awarded the cover of *ACS Nano* and was featured in nanowerk.com (Nanoparticle shape can drastically enhance MRI signals, <http://www.nanowerk.com/spotlight/spotid=39504.php>, March 23, 2015) as well as nanotechweb.org (Gold nanostars enhance MRI signal, <http://nanotechweb.org/cws/article/tech/60663>, March 26, 2015).
5. Our work on lattice opto-materials was featured in the Woman in Nanoscience Blog (Teri Odom's new algorithm speeds the discovery of new materials, <http://www.womeninnano.org/apps/blog/show/43184221-teri-odom-s-new-algorithm-speeds-the-discovery-of-new-materials>, March 19, 2015).
6. Our work on lattice opto-materials was highlighted in February 2015 *MRS Bulletin* [volume 40, p. 103]. <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=9551195&fileId=S0883769415000147>
7. We were featured as the December 2014 profile for AWIS (Association for Women in Science, Chicago). <http://www.awis-chicago.org/community/scientist-of-the-month/december-2014-sotm-teri-odom>
8. Our work on lattice opto-materials as ultra-flat lenses is highlighted in Materials Today (Metallic lattices offer new approach to super thin lenses, <http://www.materialstoday.com/optical-materials/news/lattices-offer-new-approach-to-super-thin-lenses/>, December 3, 2014)
9. Our work on lattice opto-materials that can focus light anywhere in 3D is highlighted in nanotechweb.org (Only the fittest lattice optics will survive, <http://nanotechweb.org/cws/article/tech/59265>, November 13, 2014)
10. Our work on nanoparticle oligomers is highlighted as an *ACS Nano* August 2014 podcast. My student Ankun Yang conducts the interview with the managing editor of *ACS Nano*: <http://pubs.acs.org/page/ancac3/audio/index.html>.
11. Our work on designing new types of hydrogen sensors based on nanoparticle oligomers is highlighted in nanotechweb.org. (Nanoparticle oligomers detect hydrogen, <http://nanotechweb.org/cws/article/tech/57873>, July 11, 2014)
12. Our receipt of the 2014IPMI Carol Tyler award is posted: [www.youtube.com/watch?v=eM7aN\_JQX8g](http://www.youtube.com/watch?v=eM7aN_JQX8g)
13. Our work on delivery of gold nanostar constructs to the nucleus is mentioned in CNN. <http://www.cnn.com/interactive/2014/04/health/the-cnn-10-healing-the-future/> (story 2).
14. Our work on high drug loading on gold nanostars increasing efficacy was highlighted in nanotechweb.org (Loaded nanostars kill cancer cells, <http://nanotechweb.org/cws/article/tech/56956> April 16, 2014; A novel approach to designing drug-loaded nanoconstructs, <http://www.nanowerk.com/spotlight/spotid=35143.php> April 9, 2014)
15. Our work on lattice plasmon lasers based on arrays of plasmonic nanoparticles was highlighted in nanotechweb.org (Lattice plasmons help make for new nanolaser, <http://nanotechweb.org/cws/article/tech/53921>)
16. Our work on nanolasers based on 3D bowties is highlighted in Discover Magazine (June 2013, <http://discovermagazine.com/2013/june/04-new-laser-producing-device-is-as-small-as-a-virus#.UgvusD-Zbpw>)
17. Our work on nanolasers made from 3D gold bowties was highlighted in numerous media outlets, including Northwestern University News (Researchers Create Laser the Size of a Virus Particle, <http://www.northwestern.edu/newscenter/stories/2012/11/researchers-create-laser-the-size-of-a-virus-particle.html>). Distinct other press includes: Geekosystem (Laser The Size Of A Virus Uses Nano Bow Ties To Create Tiny Laser Beams, <http://www.geekosystem.com/worlds-smallest-laser/>), Photonics (Virus-Size Laser Defies Diffraction Limit, <http://www.photonics.com/Article.aspx?AID=52249>), Gizmag (Researchers create working laser the size of a virus particle, <http://www.gizmag.com/virus-particle-sized-laser/24902/>), Laser Focus World (Virus-sized plasmonic nanolasers demonstrated by Northwestern University researchers, <http://www.laserfocusworld.com/articles/2012/11/virus-sized-nanolaser-northwestern.html>), Nanowerk (Researchers fabricate a virus-sized laser, <http://www.nanowerk.com/spotlight/spotid=26902.php>) , Nanotechweb.org (Nanolasers go bowtie-shaped, <http://nanotechweb.org/cws/article/tech/51114>), Crazy Engineers (Lasers The Size Of A Virus Developed, Can Work In Room Temperature!, <http://www.crazyengineers.com/lasers-the-size-of-a-virus-developed-can-work-in-room-temperature-5106/>), Laser Focus World (Scientists Create Laser Size of a Virus Particle, <http://www.laserfocusworld.com/news/2012/11/07/scientists-create-laser-size-of-a-virus-particle.html>)
18. Our work on fabricating moiré nanolattices was highlighted in nanotechweb.org (Nanofabrication reaches new complexity, <http://nanotechweb.org/cws/article/tech/50712>, 12 September 2012).
19. Our work on plasmonic nanostructures—both fabrication and synthesis work—was highlighted in Chemistry World (Plasmons with a Purpose, <http://www.rsc.org/chemistryworld/2012/08/nanoparticle-plasmonics>)
20. Our opinion and review on printable color was highlighted in multiple media outlets: Discovery News (Nanoprinter Achieves Insane Resolution, <http://news.discovery.com/tech/color-printing-breaks-record-120813.html>, 13 August 2012), Scientific American (Highest Possible Resolution Color Images Achieved, <http://www.scientificamerican.com/article.cfm?id=highest-possible-resolution-color-images-achieved>, 13 August 2012), NBC News.com (Best possible high-res printing achieved, <http://www.futureoftech.msnbc.msn.com/technology/futureoftech/best-possible-high-res-printing-achieved-939233>, 14 August 2012)
21. Our work on liquid metal plasmonics was highlighted in RSC.org (Liquid gallium lights up, <http://www.rsc.org/chemistryworld/2012/08/liquid-gallium-lights>, 8 August, 2012)
22. Our work on the aptamer-nanostar drug delivery system continues to receive press months after the paper was accepted: Pharmaceutical Technology (Nanotechnology: is the elusive cure for cancer in sight? <http://www.pharmaceutical-technology.com/features/featurenanotechnology-cancer-cure-drug/>, 14 June 2012), Nanotechnology Now (Delivering Nanoparticles to the Cell Nucleus, <http://www.nanotech-now.com/news.cgi?story_id=45140>, 14 May 2012), National Cancer Institute (Delivering Nanoparticles to the Cell Nucleus, <http://nano.cancer.gov/action/news/2012/may/nanotech_news_2012-5-7a.asp>)
23. Our work on the delivery of drugs to the cancer nucleus using drug-loaded gold nanostars (“tiny hitchhikers”) was highlighted in numerous media outlets, including *Chemical & Engineering News* (2 April **2012**, *90*, 25) and Northwestern University News (Tiny Hitchhikers Attack Cancer Cells: Gold Nanostars First to Deliver Drug Directly to Cancer Cell Nucleus <http://www.northwestern.edu/newscenter/stories/2012/04/gold-nanostars-attack-cancer.html)>. Distinct other press includes: Fierce Drug Delivery (Hitchhiking Gold Nanostars Can Sneak into Cancer Cells <http://www.fiercedrugdelivery.com/story/hitchhiking-gold-nanostars-can-sneak-cancer-cells/2012-04-11>), Gizmag (Gold nanostars deliver drugs directly to cancer cell nucleus <http://www.gizmag.com/gold-nanostar-cancer-drug-delivery/22106/>), UPI (Drug sent to a cancer cell's nucleus, <http://www.upi.com/Health_News/2012/04/06/Drug-sent-to-a-cancer-cells-nucleus/UPI-87341333753847/>), Medical News Today (Nanostars Deliver Cancer Drugs Direct To Nucleus <http://www.medicalnewstoday.com/articles/243856.php>), AZO Nano (Drug-Loaded Gold Nanostars Hitchhike into Cancer Cell Nucleus <http://www.azonano.com/news.aspx?newsID=24631>), Futurity (Gold nanostars hitch a ride to attack cancer <http://www.futurity.org/health-medicine/gold-nanostars-hitch-a-ride-to-attack-cancer/>), PhysOrg (Tiny hitchhikers attack cancer cells: Gold nanostars first to deliver drug directly to cancer cell nucleus <http://phys.org/news/2012-04-tiny-hitchhikers-cancer-cells-gold.html>), TG Daily (These nanoparticles attack cancer cells <http://www.tgdaily.com/health-features/62558-these-nanoparticles-attack-cancer-cells>), Nanowerk (Gold nanostars first to deliver drug directly to cancer cell nucleus <http://www.nanowerk.com/news/newsid=24838.php>) and Gizmodo (<http://gizmodo.com/5899498/these-nanostars-kill-cancer-without-ever-penetrating-a-cell>)
24. Our invention of solid state photolithography (SSP) was highlighted in Nanowerk (<http://www.nanowerk.com/spotlight/spotid=23714.php>) and in an SPIE Newsroom article (DOI: 10.1117/2.1201202.004132)
25. Our work on strongly coupled nanoparticle arrays and dark plasmons was highlighted in MRS Materials 360 in the June 2011, Volume 11, Issue 11.
26. One of 60 women in chemistry selected to describe in 60 seconds today’s major issues and opportunities facing women in chemistry and the sciences for the International year of Chemistry, <http://www.futurewecreate.com/women/>
27. Programmable soft lithography based on Solvent-Assisted Nanoscale Embossing (SANE) work was highlighted in numerous media outlets, including *Chemical & Engineering News*, *NSF News from the Field,* and Northwestern University (as listed in publications section). Distinct other press includes: Physics World <http://physicsworld.com/cws/article/news/43743>, Nanowerk <http://www.nanowerk.com/spotlight/spotid=17729.php>, Laboratory Equipment (Scientist of the Week) <http://www.laboratoryequipment.com/News-scientist-of-the-week-teri-w-odom-081910.aspx>, R&D Magazine (<http://www.rdmag.com/News/2010/08/Materials-Nanotechnology-Low-Cost-Nanopatterning-Method-Utilizes-Popular-Shrinkable-Plastic/>), Science Daily (<http://www.sciencedaily.com/releases/2010/08/100813121918.htm>), PhysOrg.com (<http://www.physorg.com/news200921093.html>), Futurity.org (<http://www.futurity.org/science-technology/nanopatterns-on-the-cheap-with-shrinky-dinks/>)
28. Our work on nanopyramids and their application in cancer research was featured on the cover of the National Nanotechnology Initiative (NNI) Supplement to the President’s FY 2011 Budget. <http://nano.gov/>
29. Our work in research and teaching is highlighted by the Research Corporation (<http://www.rescorp.org/cottrell-scholar-awards/cottrell-scholar-news/spotlight-on-teri-odom/76>)
30. NCLT Press Release Highlight on our Nanobiotechnology and Materials Workshop in Alexandria, Egypt. ([http://www.nclt.us/press/index.shtml#033009](http://www.nclt.us/press/index.shtml%23033009))
31. Nanopatterning workshop in Africa highlighted in *Adv. Mater.* **20**, 1 (2008)
32. Soft Interference Lithography (SIL) work highlighted in numerous media outlets, including *NSF Press Release, Nature Nanotech*, and *Science* (as listed in publications section). Others, including: Science Daily <http://www.sciencedaily.com/releases/2007/09/070913185042.htm>, PhysOrg.com, <http://www.physorg.com/news108746191.html>, Nanotechnology Now <http://www.nanotech-now.com/news.cgi?story_id=24920>, Semiconductor International <http://www.semiconductor.net/articleXml/LN668476297.html>, Nanotechwire.com <http://nanotechwire.com/news.asp?nid=5026>, NaniteNews.com <http://www.nanitenews.com/Research/Nanomaterials_With_a_Bright_Future.asp>, ZDNet <http://blogs.zdnet.com/emergingtech/?p=691>, Daily Science News “Nanomaterials with a Bright Future.” <http://www.sciencenewsdaily.org/story-108746191.html>, Popular Mechanics. <http://www.popularmechanics.co.za/content/news/singlepage.asp?key=410>
33. Tips for writing a journal article, *Chemical and Engineering News* (<http://pubs.acs.org/email/cen/html/090407135021.html>)
34. “Science as Art” First Place Winner at the MRS Spring 2007 Meeting (<http://www.mrs.org/s_mrs/doc.asp?CID=8728&DID=194715&css=print#art>)
35. NCLT Press Release Highlight on our work with New Trier High School teachers and benchtop nanoscale patterning (<http://nclt.us/news/newTrierHighSchool.html>)
36. Pyramid picture selected as part of the Nanostructure Fabrication Gordon Research Conference 2006 Flyer and T-shirt
37. Interview by Foresight Institute on Why Care about Nanotechnology? (<http://www.foresight.org/nano/TeriOdom.html>)
38. Interview on National Public Radio Earth & Sky: Nanopatterning (<http://www.earthsky.com/shows/nanotechnology.php?date=20051110>)
39. Weblog on talk at the Foresight Conference on Nanotechnology (<http://www.nanotechnology.com/commentary/?idp=4&ida=0&id=59>)
40. Work on imaging photocurrent in CdS nanowires photodetectors highlighted in *Photonics Spectra*, September 2005, p. 106.
41. Nanocrystals in nanowells work highlighted in *Nature Materials* (<http://www.nature.com/cgi-taf/gateway.taf?g=3&file=/materials/nanozone/news/040715/portal/m040715-3.html>)
42. Nanopicture of the Day (<http://www.nanopicoftheday.org/2004Pics/July2004/NaClNanocrystals.htm>)
43. Article in *Chronicles of Higher Education* on being offered a faculty position while still a graduate student (<http://chronicle.com/jobs/2003/04/2003042201c.htm>)

##### Peer-Review and Related Activities

**Journal Reviewer**

1. Accounts of Chemical Research
2. ACS Applied Materials and Interfaces
3. ACS Nano
4. Acta Biomaterialia
5. Advanced Functional Materials
6. Advanced Materials
7. Advanced Materials Interfaces
8. Advanced Optical Materials
9. Angewandte Chemie International Edition
10. Applied Physics Letters
11. Chemical Communications
12. Chemical Science
13. Chemistry of Materials
14. ChemPhysChem
15. Chemical Physics Letters
16. Crystal Growth and Design
17. European Journal of Inorganic Chemistry
18. IEEE Proceedings
19. IEEE Transactions in Nanotechnology
20. International Journal of Nanotechnology
21. International Network for Engineering Education and Research (iNEER)
22. Journal of the American Chemical Society
23. Journal of Chemical Education
24. Journal of Materials Chemistry
25. Journal of Materials Research
26. Journal of Nanoengineering and Nanosystems
27. Journal of Nanophotonics
28. Journal of Optics
29. Journal of Physical Chemistry B
30. Journal of Physical Chemistry C
31. Journal of Physical Chemistry Letters
32. Journal of Raman Spectroscopy
33. Journal of Solid State Chemistry
34. Journal of Vacuum Science and Technology B
35. Langmuir
36. Laser and Photonics Reviews
37. Materials Research Bulletin
38. Materials Science and Engineering B
39. MicroNano Letters
40. Materials Today
41. Nano Letters
42. Nanomedicine
43. Nanoscale
44. Nano Research
45. Nanotechnology
46. Nature
47. Nature Communications
48. Nature Materials
49. Nature Nanotechnology
50. Nature Photonics
51. Optics Letters
52. Optics Express
53. Organic Electronics
54. Physica E
55. Physical Chemistry Chemical Physics
56. Physical Review B
57. Proceedings of the National Academy of Sciences
58. Recent Patents in Anti-cancer Therapy
59. Science
60. Scientific Reports
61. Small
62. Talanta
63. Thin Solid Films

**Proposal Reviewer**

1. NIH Enabling Bioanalytical and Imaging Technologies (EBIT) Chair, stating July 2016
2. NIH EBIT Standing Member (2012 – *current*)
3. Co-Chair EBIT October 2014
4. Chair EBIT special emphasis panel on microscopy and imaging (June 2015)
5. American Chemical Society (ACS)-Petroleum Research Fund (PRF) G
6. ACS-PRF AC
7. NSF: Analytical and Surface Chemistry
8. NSF: Experimental Physical Chemistry
9. NSF: Solid State and Materials Chemistry (CAREER)
10. NSF: Molecular, Supra, and Nanochemistry (CAREER)
11. NSF: Division of Materials Research (individual PI and MRSEC proposals)
12. NSF: Division of Materials Research Electronic and Photonic Materials *Panel*
13. NSF: Division of Materials Research MRSEC *Panel*
14. NSF: Division of Materials Research CAREER *Panel*
15. NSF: Collaborative Research Centers in Chemistry
16. NSF: Research Experience for Undergraduates (REU) *Panel*
17. NSF: Hierarchical Nanomanufacturing NIRT *Panel*
18. NSF: Analytical and Surface Chemistry CAREER *Panel*
19. NSF: NanoManufacturing CAREER *Panel*
20. U.S. Civilian and Research Development Foundation (CDRF)
21. Research Corporation: Cottrell Scholars Program
22. Research Corporation: Cottrell College Program
23. Department of Energy
24. Center for Materials Innovation (CMI) at University of Washington
25. National Science Engineering Research Canada (NSERC): Inter-American Collaboration in Materials
26. European Research Council
27. Gordon Research Conferences
28. Stanford/Global Climate and Energy Project (GCEP)
29. Research Corporation’s Scialog Program
30. Consolider-Ingenio 2010 Programme (Spanish Government)

**Book Reviewer**

*Bridging the Micro-Nano Interface* for the journal Small

##### Professional Affiliations and Service

**Member:** American Chemical Society (ACS), American Vacuum Society (AVS), Materials Research Society (MRS), Optical Society of American (OSA)

**Session Chair**

1. SPP7, 2015: “Plasmonic Spectral and Spatial Beam Shaping”
2. NFO-13, 2014: “Nanogaps and Hot Spots”
3. SPIE Optics and Photonics, 2013: “Nanoplasmonic Resonances”
4. AMN-6 Meeting, 2013: “Nanoscale Systems”
5. ACS Fall Meeting, 2012: “Inorganic Nanoscience Award to Daniel R. Gamelin”
6. ACS Fall Meeting, 2012: “Synthesis, Spectroscopy, Theory and Applications of Nanocrystals and Nanowires”
7. Yamada Conference LXVI, 2012: “Nanostructure-Enhanced Photoenergy Conversion”
8. European Materials Research Society (E-MRS), 2012: “Optical Nanoantennas”
9. META12, 2012: “Large-area Nanofabrication for Plasmonics and Photonics”
10. EUROPT(R)ODE X, 2010: “Nanostructures for Sensing”
11. Indo-US Meeting, 2009: “Advanced Materials Research”
12. MRS Spring Meeting, 2009: “Session Y7: Functional Nanostructure Fabrication”
13. NCI Alliance for Nanotechnology in Cancer Investigators Meeting, 2008: Poster judge
14. SPIE Optics and Photonics, 2008: “Session 6: Nanosensing”
15. IIN Symposium, Northwestern University, 2007: “Session III: Nanodevices”
16. Japan-American Kavli Frontiers of Science (FOS) Symposium, 2007: “Frontiers in Optical Materials”
17. ASME Nano Bootcamp, 2005: “Synthesis and Devices”
18. German-American Frontiers of Chemistry Meeting, 2005: “Photonics”
19. ACS Spring Meeting, 2005: “Nanocrystal Synthesis”
20. ACS 35th Greater Lakes, 2003: “Nanotechnology”
21. APS March Meeting, 2001: “Carbon Nanotubes”

**Symposium Organizer**

1. Near-field Optics (NFO-14), International Program Committee, Hamamatsu, Japan, September 4-8, 2016.
2. American Physical Society (APS), “Plasmonics and Beyond,” March 14-18, 2016.
3. Near-field Optics (NFO-13), Snowbird, Utah. August 31- September 4, 2014.
4. ACS Fall 2012 Meeting, ACS Inorganic Nanoscience Award Symposium, Philadelphia, PA, August 21, 2012.
5. Member of Topical Program Committee, Meta12, Paris, France, April 19-22, 2012.
6. Chair for *new* Gordon Research Conference on Noble Metal Nanoparticles, June 20-25, 2010.
7. Member of Program Committee for Nanophotonics Topical Sub-Committee for the IEEE Photonics Society 2009, Belek-Antalya Turkey. October 4-8, 2009.
8. Member of Program Committee for Surface Plasmon Polariton (SPP)-4 Meeting, Amsterdam, Netherlands, 2009.
9. Chair for International Institute of Nanotechnology (IIN) Symposium, Evanston, IL, November 20, 2008.
10. NSF-MEXT (US-Japan) Young Researchers Exchange Program, Japan. October 4-12, 2008.
11. NSF-MEXT (US-Japan) Young Researchers Exchange Program, Evanston, IL, March 11-12, 2008.
12. ACS Fall 2006 Meeting, ExxonMobil Solid State Chemistry Symposium, San Francisco, CA, September 12, 2006

##### Teaching and Advising

**Areas of Teaching**

Physical (quantum) chemistry, nanotechnology and nanopatterning, materials chemistry, general chemistry

**Courses**

Winter 2015 CHEM 105: Freshman Seminar Undergrad

Winter 2015 CHEM 102: General Chemistry Undergrad

Winter 2014 CHEM 105: Freshman Seminar Undergrad

Winter 2014 CHEM 102: General Chemistry Undergrad

Spring 2013 CHEM 360: Nanopatterning Undergrad/Graduate

Winter 2011 CHEM 102: General Chemistry(\*) Undergrad

Winter 2011 CHEM 360: Nanopatterning Undergrad/Graduate

Winter 2010 CHEM 102: General Chemistry Undergrad

Winter 2010 CHEM 360: Nanopatterning Undergrad/Graduate

Winter 2009 CHEM 102: General Chemistry Undergrad

Winter 2009 CHEM 250-1: Nanopatterning Undergrad

Winter 2008 CHEM 445: Optical Materials and Nanophotonics Graduate

Winter 2008 CHEM 250-1: Sophomore Seminar in Nanopatterning Undergrad

Spring 2007 CHEM 445: Optical Materials and Nanophotonics Graduate

Winter 2007 CHEM 250-1: Nanopatterning Undergrad

Spring 2006 CHEM 250-2: Sophomore Seminar in Nanopatterning Undergrad

Winter 2006 CHEM 250-1: Sophomore Seminar in Nanopatterning Undergrad

Winter 2006 CHEM 442-2: Advanced Quantum II Graduate

Winter 2005 CHEM 442-2: Advanced Quantum II Graduate

Spring 2004 GEN-LA 395-21: Nanoscale Patterning and Systems Undergrad

Spring 2004 CHEM 445: Science and Technology at the Nanoscale Graduate/Undergrad

Winter 2004 CHEM 442-2: Advanced Quantum Graduate

Spring 2003 CHEM 445: Science and Technology at the Nanoscale Graduate/Undergrad

Winter 2003 CHEM 442-2: Advanced Quantum II Graduate

(\*) = *Super TA Olga Karagiaridi won an Outstanding Graduate Student Teaching Award from Weinberg College of Arts and Sciences*

**Curriculum Development**

1. CHEM 105 (Winter 2014), a freshman seminar focused on The Hope and Hype of Nanotechnology, had as their final project to construct a video describing a concept in nanoscience. Student Joshua Kim and team made a terrific video called “What Color is Gold?” [https://www.youtube.com/watch?v=7LCUVbSx1C8](https://www.youtube.com/watch?v=7LCUVbSx1C8%20)
2. CHEM 102 (Winter 2010) integrated several aspects of technology into freshmen chemistry, including Lecture Capture, Clickers, Document Camera, and Voice-over Worked Problems (ProfCast). A video showing the use of the technology plus student interviews can be found [here](https://mediasite.nuit.northwestern.edu/Mediasite/Play/ce410def443646c98747239a3c1da75d1d). Aspects were also highlighted in a newsletter by Northwestern University’s Information Technology (NUIT) <http://www.it.northwestern.edu/ecommunicator/2010_winter/faculty/lecturecap.html>
3. CHEM 250 was funded by an NSF-Nanotechnology in Undergraduate Education Award. This research-based course was two quarters and designed for freshman and sophomores. Video-lab modules were developed and can be found at: <http://www.nanoed.org/courses/nano_experiments_menu.html>.
4. GEN-LA 395-21 was developed in response to a call from the Dean of WCAS to design *Junior Seminars*. Ours was one of three selected for the inaugural year, and the only science one. This lab-based course in nanotechnology had sophomores and juniors from chemistry, biology, English, and materials science.
5. CHEM 445 was designed for advanced undergraduates and graduate students and had instrumentation training so students could obtain training on sophisticated nanoscale instrumentation. A Hewlett Award for Innovations in Undergraduate Teaching was used to fund these nano-training activities.
6. Other courses benefited from the seminars and workshops attended as a Searle Fellow (2004) as part of the Searle Center for Excellence in Teaching.
7. I have contributed two chapters to different books in Nanoscale Education on the design of research-based courses in nanotechnology.

**Undergraduate Students Advised in Research**

1. Christian Robertson (WCAS, 2016) Ph.D. program, Rice University (2016)
2. Stephanie Werner (WCAS, 2016) Ph.D. program, U Wisconsin (2016)
3. Alice Ou (McC, 2014)
4. Raymond Lee (WCAS, 2014) Applying to medical school
5. Hope Caughron (McC, 2014) Medical school
6. Ruilong Ma (McC, 2013) Ph.D. program, Georgia Tech
7. Kelsey Stoerzinger (McC, 2010) Churchill Fellowship in Cambridge, England (2010)

Ph.D. program, MIT (2011)

1. Matt Chia (WCAS, 2009) Applying to medical school
2. Tom McDonald (WCAS, 2007) Ph.D. program, UC Berkeley
3. Numrin Thaitrong (WCAS, 2006) Ph.D. program, UC Berkeley
4. Scott Price (WCAS, 2006) Ph.D. program, UC Santa Barbara
5. Laura Hughes (WCAS, 2006) Ph.D. program, Stanford University
6. Jeffrey Wille (WCAS, 2004) Forensics Master’s Program, UIC

**Undergraduate Student Awards**

**Hope Caughron**

Undergraduate Research Sumer Grant, Northwestern University (2013)

**Matt Chia**

NSEC REU Academic Year Program (2008)

**Laura Hughes**

NSF Predoctoral Fellowship (2007)

Gates Cambridge Scholar (2006)

Sarrett Award, Northwestern University (2005)

MathCAD Award, Northwestern University (2005)

Barry A. Goldwater Fellowship (2005)

Undergraduate Research Grant, Northwestern University (2004)

**Raymond Lee**

Undergraduate Research Summer Grant, Northwestern University (2013)

**Ruilong Ma**

ISEN Undergraduate Research Fellowship (2010)

NSEC REU Academic Year Program (2010)

**Scott Price**

Undergraduate Research Summer Grant, Northwestern University (2005)

Undergraduate Research Grant, Northwestern University (2004)

**Kelsey Stoerzinger**

DOE Predoctoral Fellowship (2011)

NSF Predoctoral Fellowship (2011)

Churchill Fellowship (2010), <http://www.northwestern.edu/newscenter/stories/2010/01/churchill.html>

University Guild Scholarship (2009)

ASM Chicago Regional Carl Samans Award (2009)

Society of Women Engineers Caterpillar Scholarship (2008)

ASM Materials Education Foundation Outstanding Scholar Award (2008)

MRSEC REU Academic Year Program (2008)

**Numrin Thaitrong**

Undergraduate Research Summer Grant (2005)

**Thomas McDonald**

REU Solid State Chemistry Fellowship (2006)

**Christian Robertson**

Undergraduate Research Summer Grant, Northwestern University (2013)

DAAD Rise Fellowship (2014)

**M.S. Students**

1. Phoebe Li December 2009 Chemical Engineering

2. David Karlin August 2014 Chemistry

**Ph.D. Students**

1. Ankun Yang June 2016 Postdoctoral Fellow, Stanford University
2. Cliff Engel July 2015 Research Scientist, Intel
3. Yi Hua June 2015 Research Scientist, Intel
4. Mark Huntington January 2015 McKinsey and Company
5. Duncan Dam December 2014 Postdoctoral Fellow, Northwestern University
6. Steven Lubin December 2013 Research Scientist, Intel
7. Julia Lin December 2012 Research Scientist, Intel
8. Wei Zhou December 2012 Assistant Professor, Virginia Tech
9. Eunah You June 2012 Research Scientist, KRISS
10. Christina Sweeney June 2011 Research Scientist, Intel
11. Min Hyung Lee June 2010 Assistant Professor, Kyung Hee University, Korea
12. Warefta Hasan December 2009 AuraSense, Chicago, IL
13. Hanwei Gao June 2009 Assistant Professor, Florida State University
14. Christopher Stender December 2008 MicroLink Devices, Chicago, IL
15. Jeremy Barton June 2008 Postdoctoral Fellow, UC Berkeley
16. Joel Henzie December 2007 MANA-NIMS Staff, Tokyo, Japan
17. Yelizaveta Babayan December 2007 Research Scientist, Eli Lily

**Ph.D. Candidates**

1. Thaddeus Reese (Ph.D. expected 2020)
2. Timothy Feliciano (Ph.D. expected 2019)
3. Dongjoon Rhee (Ph.D. expected 2019)
4. Tingting Liu (Ph.D. expected 2019)
5. Jingtian Hu (Ph.D. expected 2018)
6. Won-Kyu Lee (Ph.D. expected 2018)
7. Danqing Wang (Ph.D. expected 2018)
8. Kavita Chandra (Ph.D. expected 2017)
9. Michael Knudson (Ph.D. expected 2017)
10. Weijia Wang (Ph.D. expected 2017)
11. Kayla Culver (Ph.D. expected 2016)
12. Alex Hryn (Ph.D. expected 2016)

**Graduate Student Awards**

**Yelizaveta Babayan**

First place poster prize at Industrial Associates meeting (2007)

**Jeremy Barton**

NSEC Fellow (2005)

NSEC Fellow (2004)

NSEC Fellow (2003)

**Kavita Chandra**

Biotechnology Cluster Fellow (2013)

Hierarchical Materials Cluster Program Fellow (2013)

**Kayla Culver**

NDSEG Graduate Fellowship (2012)

NSF Graduate Fellowship, Honorable Mention (2012)

Biotechnology Cluster Fellow (2011)

NSF Graduate Fellowship, Honorable Mention (2011)

**Duncan Dam**

Malkin Scholar Award (2012)

Hierarchical Materials Cluster Program Fellow (2010)

**Cliff Engel**

Northwestern Ryan Fellowship (2012)

NSF Graduate Fellowship, Honorable Mention (2012)

Hierarchical Materials Cluster Program Fellow (2011)

NSF Graduate Fellowship, Honorable Mention (2011)

**Alex Hryn**

NDSEG Graduate Fellowship (2012)

Hierarchical Materials Cluster Program Fellow (2011)

NSF Graduate Fellowship, Honorable Mention (2011)

**Hanwei Gao**

MRSEC Fellow (2007)

Link Foundation Fellowship (Honorable Mention, 2007)

**Joel Henzie**

Award for Distinction in Graduate Research, thesis prize (2008)

First prize in “Science as Art” competition at Spring 2007 MRS Meeting

Selected as one of 50 U.S.-participants in Nobel Laureates meeting in Lindau, Germany (2006)

MRSEC Fellow (2006)

MRSEC Fellow (2005)

Suchanski Prize (2005)

**Mark Huntington**

Northwestern Presidential Fellowship (2013)

Dow Sustainability Challenge, First Place (2011)

NDSEG Fellowship (2010)

Northwestern Ryan Fellow (2010)

**Michael Knudson**

NDSEG Graduate Fellowship (2014)

Hierarchical Materials Cluster Program Fellow (2013)

**Won-Kyu Lee**

Northwestern Ryan Fellow (2016)

**Min Hyung Lee**

Outstanding NSEC Research Award (2007)

NSEC Fellow (2006)

**Julia Lin**

Institute of International Nanotechnology (IIN) Research Award (2010)

NSEC Fellow (2010)

NSEC Fellow (2009)

NSEC Fellow (2008)

**Steven Lubin**

Hierarchical Materials Cluster Program Fellow (2009)

**Ankun Yang**

MRS Graduate Student Silver Medal (2015)

Institute of International Nanotechnology (IIN) Research Award (2015)

IPMI Student Award, Honorable Mention (2014)

MRSEC Fellow (2013)

**Wei Zhou**

Chinese Government Award for Outstanding Self-Financed Students Abroad by the China Scholarship Council (2012)

Institute of International Nanotechnology (IIN) Research Award (2011)

MRSEC Fellow (2011)

MRSEC Fellow (2010)

Northwestern Ryan Fellow (2009)

MRSEC Fellow (2009)

MRSEC Fellow (2008)

**Ph.D. Candidate Committees**

1. Myong-Han Yoon (qualifying exam, research proposal, thesis defense, T.J. Marks)
2. Xiayou Zhang (qualifying exam, research proposal, thesis defense, R.P. Van Duyne)
3. Shu Jin (qualifying exam, research proposal, thesis defense, T.J. Marks)
4. Brooks Jones (qualifying exam, M. Wasielewski)
5. Matt Kern (qualifying exam, T.J. Marks)
6. Lori Fang Liu (qualifying exam, J.T. Hupp)
7. Jing Zhao (qualifying exam, R.P. Van Duyne)
8. Erin Hicks (qualifying exam, R.P. Van Duyne)
9. Matt Russell (qualifying exam, research proposal, T.J. Marks)
10. Alex Martinson (qualifying exam, research proposal, J.T. Hupp)
11. Alex Hains (qualifying exam, research proposal, T.J. Marks)
12. Can Xiu (qualifying exam, C.A. Mirkin)
13. Hyuk Jin Choi (qualifying exam, T.J. Marks)
14. Joshua Middendorf (qualifying exam, G.C. Schatz)
15. Jae-sung Lee (qualifying exam, research proposal, C.A. Mirkin)
16. Adam Pelzer (qualifying exam, research proposal, T. Seideman)
17. Grace Yin (qualifying exam, research proposal, F.M. Geiger)
18. Jessica Lensch – Materials Science (qualifying exam, thesis defense, L. Lauhon)
19. Ari Atkinson (qualifying exam, C.M. Mirkin)
20. Patrick Hayes (qualifying exam, F.M. Geiger)
21. Choogik Kim (qualifying exam, T.J. Marks)
22. Jeff McMahon (qualifying exam, research proposal, thesis defense, G.C. Schatz)
23. Daniel Bailey (qualifying exam, S.I. Stupp)
24. Alexander Green – Materials Science (qualifying exam, M. Hersam)
25. Richard Ahn (qualifying exam, T. O’Halloran)
26. Matthew Banholzer (qualifying exam, C.A. Mirkin)
27. Andrew Sensei (qualifying exam, research proposal, C.A. Mirkin)
28. Myung-Gil Kim (qualifying exam, research proposal, T. Marks)
29. Ken Evereats (qualifying exam, T. Marks)
30. Kaylie Young (qualifying exam, C.A. Mirkin)
31. Travis Gras (research proposal, thesis defense, F. Stoddart)
32. Lauren Kreno (qualifying exam, R.P. Van Duyne)
33. Felix Amankona-Diawuo (qualifying exam, T. Seideman)
34. Si Chen (thesis defense, Chalmers University, 24 May 2013, M. Kall)

**Other Activities Involving Undergraduates**

1. **Advisor in the Center REU summer programs (NSEC, MRSEC, PSOC) since 2004**

Meredith Hartley (MRSEC 2013)

Ruilong Ma (ISEN 2010)

Melissa Rangel (MRSEC 2010)

Jonathan Leibowitz (PSOC 2010)

Nicole Sanchez (NSEC 2010)

Alex Robles (NSEC REU 2009)

Leslie Walker (MRSEC REU 2008)

Matt Chia (NSEC REU 2008)

Deborah Wang (MRSEC REU 2007)

Wilfredo Sifuentes (NSEC REU 2007)

Sam Nyok (Calvin College, NSEC REU 2006)

Lisa Brown (Louisiana State University, MRSEC REU 2006)

Laura Hughes (Northwestern University, NSEC REU 2005)

Jennifer Wang (Rice University, NSEC REU 2004)

1. **Participant in the NSF NUE Peer Evaluation Collaborative**SUNY Binghamptom, NY (July 2004)

##### Outreach to Public

**Public Lectures in Chicago and other US Cities**

1. Northwestern We Will Campaign, Los Angeles, CA. “Making Precious Metals More Precious,” February 20, 2016.
2. Current Events Class of Evanston, Evanston, IL. “Nano and You: Evaluating the Promise of Nanotechnology,” May 21, 2009.
3. Science Café at the Wilmette Public Library, Wilmette, IL. March 11, 2009.
4. 2008 Chicago Humanities Festival: THINKING BIG, Chicago, IL. November 2, 2008.
5. Museum of Science and Industry and University of Chicago, Chicago, IL. “Innovations in Nanotechnology,” January 26, 2008.
6. Compton Lecture Series, University of Chicago, Chicago, IL. “The Colorful Nanoworld,” October 28, 2006.
7. Chicago Science Expedition: Nanotechnology: Thinking Big and Building Small, Harold Washington College, Chicago, IL. “The Colorful Nanoworld,” October 5, 2006.

**Research Experience for Teachers (RET) Program**

Program Director for RET Program for NSEC, 2003, 2004, 2005

Program Director for RET Program for MRSEC, 2003

**High School Teachers and Students**

Every year since 2004, a high school teacher (previously an RET participant) and his students from New Trier High School visit the lab for a half day symposium. This field trip consists of presentations from my graduate students as well as tours of our lab and the facilities in Cook Hall. In 2006, we tested some of our benchtop nanoscale experiments with the high school students. We have hosted students every year since 2007, where we continue to test benchtop nanoscale experiments with high school teachers from New Trier.

**Tutorials and Workshops for Scientists and Engineers**

Every year since 2003, I have given tutorials on the synthesis and assembly of nanowires and nanotubes through the ASME Nano Bootcamp program. I have also been invited to give tutorials on the synthesis and characterization of nanostructures and nanofabrication as part of the NSF Summer Institute at Northwestern in 2005 and 2006. Seminars on “Introduction to Nanofabrication” are also presented to high school teachers and REU students as part of my participation in the NCLT in 2005 and 2006.

##### Department, University, National and International Service

**Departmental Service**

2016-*current* Member of Strategic Hiring Plan Committee, Chemistry

2015-*current* Associate Chair, Chemistry

2015-*current* (**Chair**) Faculty Search Committee, Chemistry

2014 Edmund W. Gelewitz Award Interview Committee

2013-2016 Faculty Senate Representative, Chemistry

2013-2014Member of Faculty Search Committee for Materials Science and Engineering

2012-2014 Junior Faculty Mentoring Committee

2010-2012 Vision Committee

2010-2011 (**Chair**) Junior Faculty Mentoring Committee

2009-2010 Junior Faculty Search Committee

2008-2011 (**Chair**) Physical Chemistry Division

2007-2009 Chemical Diversity Committee

2006-2007 Faculty Search Committee

2004-2006 Colloquium and Seminar Committee

2004-2006 Executive Committee

2003-2004 (**Chair**) Graduate Student Advising Committee

2003-2005 (**Chair**) Webpage Committee

2003-2004 Physical Chemistry Winter Quarter Seminar Organizer

2003 Finance Committee

2003 Stockroom Committee

2002-2005 Graduate Admissions Committee

2002-2003 Departmental Fall Picnic Committee

**College Service**

2007-2009 WCAS Curriculum Committee (appointed by Dean’s office)

2007 Ad hoc Committee for Tenure Review (appointed by Dean’s office)

**University Service**

2016-*current* Associate Director, International Institute of Nanotechnology (IIN)

2016-*current* (**Chair**)Faculty Search Committee, IIN

2015-*current* Provost Initiative on Support for Faculty Excellence, Advisory Committee Member

2015-*current* American Cancer Society Institutional Research Grant Review Committee

2015-*current* Biotechnology Training Program (BTP) Executive Committee

2015 Ad hoc member for Limited Submissions for Packard Fellowship

2014 Member of Weinberg College Dean Search Committee

2014Member of Senior Vice President (SVP) Search Committee

2014Office of Research Integrity Investigation Committee Member

2014 Ad hoc member for Limited Submissions for Packard Fellowship

2014-2016 Member of NU Micro/nanofabrication Facility Oversight Committee

2013-*current* Member of Chicago Collaboration for Women in STEM

2013 Ad hoc member for Limited Submissions for Packard Fellowship

2013 Ad hoc member for Limited Submissions NSF Scalable Nanomanufacturing Proposal

2012 Ad hoc member for Limited Submissions for Packard Fellowship

2011-2013 NU Micro/nanofabrication Facility Oversight Committee (**Chair**)

2011 Ad hoc member for Limited Submissions for Packard Fellowship

2010 (**Co-Chair**) Areas of Distinction Committee, Strategic Planning for University   
(appointed by Provost’s office)

2010-2011 Cook Microfabrication Facility Faculty Oversight Committee

2010-2011 NUFAB Facility Faculty Oversight Committee

2010 Ad hoc member for Limited Submissions for Packard Fellowship

2010-*current* Ryan Fellowship Selection Committee

2009 Ad hoc member for Limited Submissions Major Research Instrumentation

2006-2009 Limited Submissions Committee (appointed by VPR)

2006-*current* MRSEC Shared Facilities Committee

2006 Ad hoc member for Limited Submissions Committee for Packard Fellowship

2006-2007 Microfabrication and Nanofabrication Committee (appointed by VPR)

2005-*current* Keck-II Facility Faculty User Committee

**National Service**

2016 NSF Chemistry Committee of Visitors (COV), Member

2016 TREE Research Corporation Award Selection Committee, Member

2015-*current* (**Chair**) MRS Innovation in Outstanding Young Investigator Subcommittee

2014 NSF Grantees Nano Meeting, co-organizer

2012-*current* NIH EBIT Study Section, Standing Member

2012-2015 ACS Graduate Education Advisory Board (GEAB)

2012 ACS Postdoc-to-Faculty Advisor at ACS Fall 2012 Meeting

2012 ACS Division of Inorganic Chemistry (DIC) Nanoscience Subdivision Chair

2012 ACS DIC Young Investigator Award Committee Member

2012 Cottrell Scholar Collaborative New Faculty Workshop Mentor

2011-2015 Cottrell Scholar Advisory Council (CSAC), Research Corporation

2011 ACS Career Pathways Working Group (Academe), American Chemical Society

2011 ACS Division of Inorganic Chemistry (DIC) Nanoscience Subdivision Chair-elect

2011 Co-editor of a special issue on “Plasmonics” for *Chemical Reviews*

2010 NSF Macromolecular, Supramolecular and Nanochemistry (MSN) Workshop Moderator

2010 PeerChoice experiment with Chemical Physics Letters

2010 Japanese-American Kavli Frontiers of Science (JAFOS) Planning Group Member

2010 Cottrell Scholar 2010 Conference Program Committee

2008-*current* Tenure and Promotion Review External Letter Writer

2008 Japanese-American Kavli Frontiers of Science (JAFOS) Planning Group Member

2007-2008 Cottrell Scholar 2008 Conference Program Committee

2007-2010 Center for Nanoscale Materials (CNM) User Executive Committee at Argonne National Laboratory

2006-2008 Co-editor of a special issue on “Frontiers in Nanoscience” for *Accounts of Chemical Research*, December 2008

2006-2007 Member of Basic Energy Science Advisory Committee (BESAC) Grand Challenges Subcommittee for the Department of Energy (DOE). Involves constructing document containing Grand Challenges and participating in the DOE workshops (August 3-5, 2006, Washington, DC; October 6-7, 2006, Evanston, IL; July 31 – August 2, 2007, Washington, DC; August 20-21, 2007, Boston, MA)

**Professional Service and Boards**

2013-*current* Executive Editor, *ACS Photonics* (ACS)

2015-*current* Editorial Committee, *Annual Review of Physical Chemistry*

2014-*current* International Advisory Board, *ChemNanoMat* (Wiley-VCH)

2013-*current*  Advisory Board Member, *Materials Horizons* (Royal Society of Chemistry, RSC)

2013-*current* Editorial Advisory Board, *Nanospectroscopy*

2010-2011 MRS Africa Subcommittee on Africa MRS activities

2010-2013 Associate Editor*, Chemical Science* (RSC)

2010-*current* Editorial Advisory Board, *Nano Letters* (ACS)

2010-*current* Editorial Advisory Board, *ACS Nano* (ACS)

2009-*current* Advisory Editorial Board, *Chemical Physics Letters* (Elsevier)

2009-2011 Editorial Advisory Board, *Journal of Physical Chemistry* (ACS)

2008-2010 Associate Editor for “Nanostructured Surfaces,” in Comprehensive Nanoscience and Technology (Elsevier)