Sara E. Skrabalak

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Education:

2007 – 2008	Postdoctoral Research Associate, Department of Chemistry, University of Washington Seattle Advisors: Professors Younan Xia and Xingde Li
2002 – 2006 Awarded 2007	Ph.D., Department of Chemistry, University of Illinois at Urbana – Champaign Thesis: *Porous Materials Prepared by Ultrasonic Spray Pyrolysis* Advisor: Professor Kenneth S. Suslick
1998 – 2002	B. A., Department of Chemistry, Washington University in St. Louis (Summa cum Laude) Advisors: Professors William E. Buhro and Dewey Holten

Appointments:

S. 2017 –	Professor of Chemistry, Indiana University – Bloomington
S. 2017 –	Adjunct Professor of Intelligent Systems Engineering, Indiana University – Bloomington
S. 2015 –	James H. Rudy Professor, Indiana University – Bloomington Appointed by the Provost of Indiana University
S. 2014 – S. 2017	Associate Professor of Chemistry, Indiana University – Bloomington
F. 2008 – S. 2014	Assistant Professor of Chemistry, Indiana University – Bloomington
S. 2007 – S. 2008	Post-doctoral Research Fellow, University of Washington – Seattle (Y. Xia, X. Li)
F. 2002 – F. 2006	Research and Teaching Assistant, University of Illinois at Urbana – Champaign (K. S. Suslick)
S. 2005	Research Assistant, Argonne National Laboratory (C. Marshall)
F. 2000 – S. 2002	Research Assistant, Washington University in St. Louis (W. E. Buhro)
S. 1999 – S. 2000	Research Assistant, Washington University in St. Louis (D. Holten)

Editorial Positions:

2020 -	Editor-in-Chief, ACS Journal *Chemistry of Materials*
2020 -	Editor-in-Chief, ACS Journal *ACS Materials Letters*
2018 - 2020	Associate Editor, RSC Journal *Nanoscale Advances*
2017 - 2020	Associate Editor, RSC Journal *Nanoscale*

Honors and Awards:

2021	Crano Award, Akron Section of the American Chemical Society
2020	Fellow, American Association for the Advancement of Science
2020	Senior Science Advisor, Defense Civilian Auxillary Corps, National Security Innovation Networks
2020-4	Mercator Fellow, Collaborative Research Center "Design of Particulate Products" Friedrich-Alexander-Universität Erlangen-Nürnberg
2017	Frontiers in Research Excellence & Discovery (FRED) Award, Research Corporation for Science Advancement
2017	Fellow, John Simon Guggenheim Memorial Foundation
2017-8	Fulbright U.S. Scholar, Host Institution: CIC biomaGUNE, San Sebastian, Spain
2016	Magomedov-Shcherbinina Memorial Prize, University of Rochester, Department of Chemistry
2015	Leo Hendrik Baekeland Award, North Jersey Section of the American Chemical Society
2015	James H. Rudy Professorship, Indiana University – Bloomington Appointed by the Provost of Indiana University
2015	Scialog Collaborative Innovation Award, Research Corporation for Science Advancement
2014	Camille Dreyfus Teacher-Scholar Award

2014	National ACS Award in Pure Chemistry sponsored by Alpha Chi Sigma Fraternity and Academic Foundation
2013	Dean's Fellow, Arts & Sciences, Indiana University – Bloomington
2013	DOE Early Career Award, Basic Energy Sciences
2013	Alfred P. Sloan Research Fellow
2013	Indiana University's Provost Travel Award for Women in Science
2012	Indiana University's Trustee Teaching Award
2012	ACS Global Research Experiences, Exchanges and Training (GREET) Program Awardee
2012	IMI-SEE Travel Award to attend IUMRS ICYRAM, Singapore
2012	Cottrell Scholar Award – Research Corporation for Science Advancement
2010	NSF CAREER Award, Division of Materials Research
2006	T. S. Piper Thesis Research Award, University of Illinois at Urbana – Champaign
2002	Sowden Award for Best Undergraduate Research, Washington University in St. Louis
2000	Semiconductor Research Corp. Undergraduate Grant Recipient

Current and Previous Research Funding:

2019-2022	NSF CHE MSN, "Strategies toward Hierarchy and Compositional Complexity in Metal Nanocrystal Synthesis"
2018-2021	DOE BES Catalysis Science, "Dynamics and Stain-Engineering of Multimetallic Nanocatalysts"
2018-2020	Indiana's Applied Research Institute, Inc., "Achieving Scientifically Secured User Reassurance in Electronics (ASSURE)" Co-PI (PI: Bermel, Purdue University)
2017-2020	Research Corporation for Science Advancement, Frontiers in Research Excellence & Discovery (FRED) Award, "Designer Metal Nanostructures for Anti-Counterfeit and Anti-Tamper Applications"
2017	John Simon Guggenheim Foundation, Fellowship
2017	Fulbright U.S. Scholar Program
2016-2019	NSF-CHE-MSN, "Symmetry Making and Breaking in the Synthesis and Assembly of Stellated and Bimetallic Nanocrystals"
2016-2019	NSF-DMR-SSMC, "Spray Synthesis of Shape-Defined Nanocrystals"
2015-2017	NIH-R21-GM, "New Chromatographic Technologies for Resolving Carbohydrate Isomers" Co-Investigator (PI: M. Novotny, Indiana University)
2015-2017	Research Corporation for Science Advancement, Scialog Collaborative Innovation Award, "Light-mediated Strain as an Adaptive Tool toward Efficient Catalysis" Co-PI: Vanessa Huxter (University of Arizona)
2014-2019	Camille Dreyfus Teacher-Scholar Award, "Shaping the Synthesis of Inorganic Solids"
2013-2016	NSF-CHE-MSN, "Seed-mediated Co-reduction: A Versatile Route to Architecturally Controlled Bimetallic Nanostructures"
2013-2018	DOE-BES Early Career Award, "Decoupling the Electronic and Geometric Parameters of Metal Nanocatalysts"
2013-2015	Alfred P. Sloan Foundation Research Fellowship
2013	Indiana University – Bloomington, New Directions Faculty Research Support Program, "Synthesis and Optical Studies of Self-assembling Stellated Polyhedra" Co-PI: Bogdan Dragnea
July-Nov. 2012	Indiana CTSI – Research Invention and Scientific Commercialization (RISC) Program, "Commercial Scale Synthesis of High Surface Area Macroporous Silica for Bioanalytical Chromatography"
2012 – 2015	NIH R01-GM, "Sensitive Methods for Glycoconjugate Analysis" 1-year no cost extension Co-Investigator (PI: Milos Novotny-Chemistry, Indiana University)
2012 – 2014	Research Corporation for Science Advancement, Cottrell Scholar Program, "New Synthetic Strategies to Multi-Metal Nanocrystals with Controlled Compositions and Structures" 1- year no cost extension
2011 – 2014	NSF DMR-MRI, "Acquisition of an X-ray Photoelectron Spectrometer for Research and Education" 1-year no cost extension
2011 – 2013	NSF CHEM-CRIF, "Acquisition and Cyber-enhancement of a Modern X-ray Powder Diffractometer to Support Local and Remote Researchers and Educators" 1-year no cost extension Co-PI (PI: David Giedroc-Chemistry, Indiana University)

2010 – 2015 NSF-DMR-SSMC CAREER Award, "Advanced Aerosol Synthesis of Metal Oxides for Photocatalytic Applications" 1- year no cost extension
2009 – 2011 ACS-PRF, "Electrospray Synthesis of Composite Photocatalysts with Controlled Architectures"

Funding for Education/Outreach/Service Activities:

2019 – 2020 Office for the Vice Provost of Research, Indiana University, Bridge Grant for "REU Site: Nanoscale Assembly of Molecules and Materials at Indiana University"
PI (Co-PI: Yan Yu, Chemistry, Indiana University)
2015 – 2018 NSF, "REU Site: Nanoscale Assembly of Molecules and Materials at Indiana University"
Co-PI (PI: Stephen Jacobson, Chemistry, Indiana University)
2012 – 2015 Research Corporation for Science Advancement, Cottrell Scholar Collaboration, "Mobilizing the Forgotten Army: Equipping TA's with Inquiry-Based Teaching Methods"
Senior Personnel (PIs: Jordan Gerton-Physics, University of Utah; Michael Schatz-Physics, Georgia Tech)
2011 – 2012 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)
2011 American Chemical Society, Committee on Local Section Activities, Innovative Projects Grant Program "Service Learning in Chemistry: Clear Creek Watershed & the B-line Trail" (organizer Dr. Kate Reck; provided sponsorship as Chair of ACS Local Section)
2010 – 2011 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)
2010 American Chemical Society, Committee on Local Section Activities, Innovative Projects Grant Program "Chemistry of Everyday Life Seminar Series" (co-organizer Dr. Erin Carlson)
2009 – 2010 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)

External Funding to Students in the Skrabalak Group:

2019 – 2020 Indiana Space Grant-Fellowship Award, Joshua Smith
2017 – 2020 NSF Graduate Student Fellowship, Sandra Atehortua Bueno
2016 – 2017 Navy Innovative Science and Engineering Grant, Alison Smith (PhD)
2016 – 2019 NSF Graduate Student Fellowship, Nick Daanen
2016 DOE Office of Science Graduate Student Research Award, Dennis Chen
2012 – 2016 NSWC Crane PhD Fellowship, Alison Smith

National and International Laboratory Access Grants

2019-2021 Center for Nanophase Materials Science, Oak Ridge National Laboratory, "Dynamics and Strain-Engineering of Multimetallic Nanocatalysts"
Microscope time allotted.
2018-2019 European Soft Matter Infrastructure (EUSMI), "Fast Tomo In-situ Heating of Au-Pd Nanocrystals"
Microscope time allotted.
2016-2017 Advanced Photon Source, Argonne National Laboratory, "Probing the Size-Dependent Ordering Behavior of PdCu Alloy Nanoparticles by In situ Total-Scattering"
Beam time allotted.
2016-2017 Advanced Photon Source, Argonne National Laboratory, "Probing the Local Structure of Sn-doped GZNO by X-ray Absorption Spectroscopy towards Improved Solar-to-fuel Photocatalysts"
Beam time allotted.
2016-2017 Center for Nanophase Materials Science, Oak Ridge National Laboratory, "In situ (S)TEM Monitoring of Interface-Controlled Disorder-Order Transformation in CuPd Nanocatalysts"
Microscope time allotted.
2014-2015 Center for Nanophase Materials Science, Oak Ridge National Laboratory, "Investigation of Shape-Controlled Nanocrystal Formation by Seeded Methods using In Situ Transmission Electron Microscopy"
Microscope time allotted.
2013 SLAC National Accelerator Laboratory
Beam time allotted.
2013 Advanced Photon Source, Argonne National Laboratory, "*In-situ* Synchrotron Small Angle X-ray Scattering Studies of Aggregation-based Growth of Metal Nanodendrites"

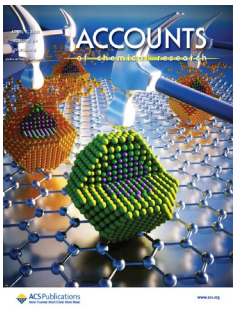
Beam time allotted.

Publications: ** indicates corresponding author; indicates undergraduate co-authors*

(113) Smith, J. D.; Reza, M. A.; Smith, N. L.; Gu, J.; Ibrar, M.; Crandall, D. J.;* Skrabalak, S. E.* "Plasmonic Anticounterfeit Tags with High Encoding Capacity Rapidly Authenticated with Deep Machine Learning" *ACS Nano,* **2021,** accepted. DOI: 10.1021/acsnano.0c08974.

(112) Chen, A. N.; Endres, E. J.; Ashberry, H. M.; Bueno, S. L. A.; Chen, Y.; Skrabalak, S. E.* "Galvanic Replacement of Intermetallic Nanocrystals as a Route toward Complex Heterostructures" *Nanoscale,* **2021,** *13,* 2618-2625. DOI: 10.1039/D0NR08255D.

(111) Chen, Y.; Zhan, X.; Bueno, S. L. A.; Shafei, I.; Ashberry, H. M.; Chatterjee, K.; Xu, L.; Tang, Y.; Skrabalak, S. E.* "Synthesis of Monodisperse High Entropy Alloy Nanocatalysts from Core@Shell Nanoparticles" *Nanoscale Horizons,* **2021,** accepted. DOI: 10.1039/D0NH00656D.



(110) Bueno, S. L. A.; Ashberry, H. M.; Shafei, I.; Skrabalak, S. E.* "Building Durable Multimetallic Electrocatalysts from Intermetallic Seeds" *Accounts of Chemical Research,* **2021,** accepted. DOI: 10.1021/acs.accounts.0c00655.

(109) Chatterjee, K.; dos Reis, R.; Harada, J.; Mathiesen, J.; Bueno, S.; Jensen, K.; Rondinelli, J.; Dravid, V.; Skrabalak, S. E.* "Durable Multimetal Oxychloride Intergrowths for Visible Light Driven Water Splitting" *Chemistry of Materials*, **2021,** *33,* 347-358. DOI: 10.1021/acs.chemmater.0c04037.

(108) Gordon, M.; Chatterjee, K.; Lambright, A.; Bueno, S.; Skrabalak, S. E.* "Organohalide Precursors for the Continuous Production of Photocatalytic Bismuth Oxyhalide Nanoplates" *Inorganic Chemistry* (invited *Forum* on *Inorganic Chemistry of Nanoparticles*), **2021,** accepted. DOI: 10.1021/acs.inorgchem.0c03231.

(107) Smith, J. D.; Scanlan, M. M.; Chen, A. N.; Ashberry, H. M.; Skrabalak, S. E.* "Kinetically Controlled Sequential Seeded Growth: A General Route to Crystals with Different Hierarchies" *ACS Nano,* **2020,** *14,* 15953-15961. DOI: 10.1021/acsnano.0c07384.

- Featured in *Science,* **2020,** *370,* 1054. Editor's Choice by Marc S. Lavine "Kinetic control of hierarchical growth" https://science.sciencemag.org/content/370/6520/twil.

(106) Chatterjee, K.; Bueno, S.; Skrabalak, S.; Dravid, V.; Reis, R. dos. "Nanoscale Investigation of Layered Oxychloride Intergrowth Photocatalysts for Visible Light Driven Water Splitting" *Microscopy and Microanalysis,* **2020**, 26, 376–379. DOI: 10.1017/S1431927620014439.

(105) Chen, A. N.; Skrabalak, S. E.* "Molecular-like Selectivity Emerges in Nanocrystal Chemistry" *Dalton Transactions* (designated a Hot Article), **2020,** *49,* 12530-12535. DOI: 10.1039/D0DT01168A.

(104) Mukherjee, D.; Gamler, J. T. L.; Skrabalak, S. E.; Unocic, R. R.* "Lattice Strain Measurement of Core@Shell Electrocatalysts with 4D-STEM Nanobeam Electron Diffraction" *ACS Catalysis,* **2020,** *10,* 5529-5541. DOI: 10.1021/acscatal.0c00224.

(103) Gamler, J. T. L.; Leonardi, A.; Sang, X.; Koczkur, K. M.; Unocic, R. R.; Engel, M.; Skrabalak, S. E.* "Effect of Lattice Mismatch and Shell Thickness on Strain in Core@Shell Nanocrystals" *Nanoscale Advances* (designated a Hot Article), **2020,** *2,* 1105-1114. DOI: 10.1039/D0NA00061B.

(102) Bueno, S. L. A.; Gamler, J. T. L.; Skrabalak, S. E.* "Ligand-Guided Growth of Alloyed Shells on Intermetallic Seeds as a Route toward Multimetallic Nanocatalysts with Shape-Control" *ChemNanoMat* (invited 5th anniversary special issue), **2020,** *6,* 783-789. DOI: 10.1002/cnma.202000026.

(101) Zhang, H.; Qiu, X.;* Chen, Y.; Wang, S.; Skrabalak, S. E.; Tang, Y.* "Shape Control of Monodispersed Sub-5 nm Pd Tetrahedrons and Laciniate Pd Nanourchins by Maneuvering the Dispersed State of Additives for Boosting ORR Performance" *Small,* **2020,** *16,* 1906026. DOI: 10.1002/smll.201906026.

(100) Gamler, J. T. L.; Shin, K.; Ashberry, H. M.; Chen, Y.; Bueno, S. L. A.; Tang, Y.; Henkelman, G.; Skrabalak, S. E.* "Intermetallic Pd_3Pb Nanocubes with High Selectivity for the 4-Electron Oxygen Reduction Reaction Pathway" *Nanoscale,* **2020,** *12,* 2532-2541. DOI: 10.1039/c9nr09759g.

(99) Santana, J. S.; Skrabalak, S. E.* "Continuous Flow Routes toward Designer Metal Nanocatalysts" *Advanced Energy Materials* (invited for the Special Issue: Emerging Materials for Energy Catalysis)*,* **2020,** *10,* 1902051. DOI:10.1002/adma.201801563.

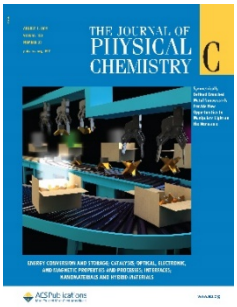
(98) Smith, J. D.; Bladt, E.; Burkhart, J. A. C.; Winkelmans, N.; Koczkur, K. M.; Ashberry, H. M.; Bals, S.;* Skrabalak, S. E.* "Defect-Directed Growth of Symmetrically Branched Metal Nanocrystals" *Angewandte Chemie, International Edition,* **2020,** *59,* 943-950. DOI: 10.1002/anie.201913301.

(97) Quintanilla, M.; Kuttner, C.; Smith, J. D.; Seifert, A.; Skrabalak, S. E.*; Liz-Marzan, L. M.* "Heat Generation by Branched Au/Pd Nanocrystals: Influence of Morphology and Composition" *Nanoscale,* **2019,** *11,* 19561-19570. DOI: 10.1039/c9nr05679c.

(96) Ashberry, H.; Gamler, J.; Unocic, R.; Skrabalak, S. E.* "Disorder-to-Order Transition Mediated by Size Refocusing: a Route towards Monodisperse Intermetallic Nanoparticles" *Nano Letters,* **2019,** *19,* 6418-6423. DOI: 10.1021/acs.nanolett.9b02610.

(95) Gamler, J. T. L.; Ashberry. H. M.; Sang, X.; Unocic, R.; Skrabalak, S. E.* "Building Random Alloy Surfaces from Intermetallic Seeds: a General Route to Strain-Engineered Electrocatalysts with High Durability" *ACS Applied Nano Materials,* **2019,** *2,* 4538-4546. DOI: 10.1021/acsanm.9b00901.

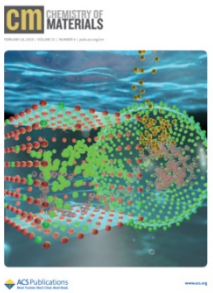
(94) Santana, J. S.; Gamler, J. T. L.; Skrabalak, S. E.* "Integration of Sequential Reactions in a Continuous Flow Droplet Reactor: a Route to Architecturally Defined Bimetallic Nanostructures" *Particle & Particle Systems Characterization,* **2019,** 1900142. DOI: 10.1002/ppsc.201900142.



(93) Albrecht, W.; Bladt, E.; Vanrompay, H.; Smith, J. D.; Skrabalak, S. E.; Bals, S.* "Thermal stability of Au/Pd octopods studied *in situ* in 3D: Understanding design rules for thermally stable nanoparticles" *ACS Nano*, **2019,** *13,* 6522-6530. DOI: 10.1021/acsnano.9b00108.

(92) Smith, J. D.; Woessner, Z. J.; Skrabalak, S. E.* "Branched Plasmonic Nanoparticles with High Symmetry" *Journal of Physical Chemistry C* (invited Feature Article), **2019,** *123,* 18113-18123. DOI: 10.1021/acs.jpcc.9b01703.

(91) Chen, L.; Ali, I. S.; Sterbinksy, G. E.; Gamler, J. T. L.; Skrabalak, S. E.; Tait, S. L.* "Alkene-hydrosilylation on Oxide-Supported Pt-Ligand Single-Site Catalysts" *ChemCatChem,* **2019,** *11,* 2843-2854. DOI: 10.1002/cctc.201900530.



(90) Gamler, J. T. L.; Leonardi, A.; Ashberry, H. M.; Daanen, N. N.; Losovyj, Y.; Unocic, R.; Engel, M.; Skrabalak, S. E.* "Achieving Highly Durable Random Alloy Nanocatalysts through Intermetallic Cores" *ACS Nano,* **2019,** *13,* 4008-4017. DOI: 10.1021/acsnano.8b08007.

(89) Chen, A. N.; McClain, S. M.; House, S. D.; Yang, J. C.; Skrabalak, S. E.* "Mechanistic Study of Galvanic Replacement of Chemically Heterogeneous Templates" *Chemistry of Materials,* **2019,** *31,* 1344-1351. DOI: 10.1021/acs.chemmater.8b04630.

(88) Smith, J. D.; Bunch, C. M.; Li, Y.; Koczkur, K. M.; Skrabalak, S. E.* "Surface *versus* Solution Chemistry: Manipulating Nanoparticle Shape and Composition through Metal-Thiolate Interactions" *Nanoscale,* **2019,** *11,* 512-519. DOI: 10.1039/C8NR07233G.

(87) Bram, S.; Gordon, M. N.; Carbonell, M. A.; Pink, M.; Stein, B. D.; Morgan, D. G.; Aguila, D.; Aromi, G.; Skrabalak, S. E.; Losovyj, Y. B.; Bronstein, L. M.* "Zn^{2+} Ion Surface Enrichment in Doped Iron Oxide Nanoparticles Leads to Charge Carrier Density Enhancement" *ACS Omega,* **2018,** *3,* 16328. DOI: 10.1021/acsomega.8b02411.

(86) Fatila, E. M.;* Maahs, A. C.; Hetherington, E. E.; Cooper, B. J.; Cooper, R. E.; Daanen, N. N.; Jennings, M.; Soldatov, D. V.; Skrabalak, S. E.; Preuss, K. E.* "Stoichiometric Control: 8- and 10-coordinate $Ln(hfac)_3(bpy)$ and $Ln(hfac)_3(bpy)_2$ Complexes of the Early Lanthanides La-Sm" *Dalton Transactions,* **2018,** *47,* 16232. DOI: 10.1039/C8DT03286F.

(85) Santana, J. S.; Koczkur, K. M.; Skrabalak, S. E.* "Kinetically Controlled Synthesis of Bimetallic Nanostructures by Flowrate Manipulation in a Continuous Flow Droplet Reactor" *Reaction Chemistry & Engineering,* **2018,** *3,* 437-441. DOI: 10.1039/C8RE00077H.

(84) Gamler, J. T. L.; Ashberry, H. M.; Skrabalak, S. E.*; Koczkur, K. M.* "Random Alloyed *versus* Intermetallic Nanoparticles: A Comparison of Electrocatalytic Performance" *Advanced Materials,* **2018,** *30,* 1801563. DOI: 10.1002/adma.201801563.

(83) Abeysinghe, D.; Skrabalak, S. E.* "Toward Shape-Controlled Metal Oxynitride Particles for Energy Applications" *ACS Energy Letters,* **2018,** *3,* 1331-1344. DOI: 10.1021/acsenergylett.8b00518.

(82) Ataee-Esfahani, H.; Koczkur, K. M.; Weiner, R. G.; Skrabalak, S. E* "Overgrowth *versus* Galvanic Replacement: Mechanistic Roles of Pd Seeds during the Deposition of Pd-Pt" *ACS Omega* (invited manuscript, *Women at the Forefront of Chemistry*), **2018,** *3,* 3952- 3956. DOI: 10.1021/acsomega.8b00394.

(81) Chen, D. P.; Lozovyy, Y.; Skrabalak, S. E.* "*n*-type Doping of Visible-light Absorbing $(GaN)_{1-x}(ZnO)_x$ with Aliovalent Sn/Si Substitutions" *Journal of Physical Chemistry C* (invited manuscript – Prashant V. Kamat Festschrift), **2018,** *122,* 13250-13258. DOI: 10.1021/acs.jpcc.7b08304.

(80) Patterson, S.; Arora, P.; Price, P.; Dittmar, J. W.; Das, V. K.; Pink, M.; Stein, B.; Morgan, D. G.; Losovyj, Y.; Koczkur, K. M.; Skrabalak, S. E.; Bronstein, L. M.* "Oriented Attachment is a Major Control Mechanism to Form Nail-like Mn-doped ZnO Nanocrystals" *Langmuir,* **2017,** *33,* 14709-14717. DOI: 10.1021/acs.langmuir.7b03688.

(79) Chen, A. N.; Scanlan, M. M.; Skrabalak, S. E.* "Surface Passivation and Supersaturation: Strategies for Regioselective Deposition in Seeded Syntheses" *ACS Nano,* **2017,** *11,* 12642-12631. DOI: 10.1021/acsnano.7b07041.

(78) Fu, J.; Skrabalak, S. E.* "Enhanced Photoactivity from Single-crystalline $SrTaO_2N$ Nanoplates Synthesized by Topotactic Nitridation" *Angewandte Chemie,* **2017,** *56,* 14169-14173. DOI: 10.1002/anie.201708645.

(77) Wang, C.; Sang, X.; Gamler, J. T. L.; Chen, D. P.; Unocic, R.; Skrabalak, S. E.* "Facet-Dependent Deposition of Highly Strained Alloyed Shells on Intermetallic Nanoparticles for Enhanced Electrocatalysis" *Nano Letters,* **2017,** *17,* 5526-5532. DOI: 10.1021/acs.nanolett.7b02239.

(76) Harak, E. W.; Koczkur, K. M.; Harak, D. W.; Patton, P.; Skrabalak, S. E.* "Designing Efficient Catalysts through Bimetallic Architecture: Rh@Pt Nanocubes as a Case Study" *ChemNanoMat,* **2017,** *3,* 815-821. DOI: 10.1002/cnma.201700167.

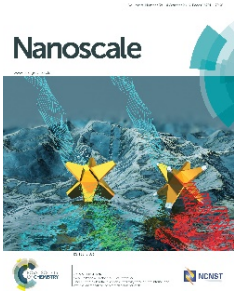
(75) Chen, D. P.; Neuefeind, J. C.; Koczkur, K. M.; Bish, D. L.; Skrabalak, S. E.* "On the Role of Short-Range Chemical Ordering in $(GaN)_{1-x}(ZnO)_x$ for Photo-driven Oxygen Evolution" *Chemistry of Materials,* **2017,** *29,* 6525-6535. DOI: 10.1021/acs.chemmater.7b02255.

(74) Rugen, E. E.; Koczkur, K. M.; Skrabalak, S. E.* "Facile Synthesis of Porous La-Ti-O and $LaTiO_2N$ Microspheres" *Dalton Transactions* (invited manuscript – The Role of Inorganic Materials in Renewable Energy Applications Special Issue), **2017,** *46,* 10727-10733. DOI: 10.1039/C7DT01165B.

(73) Santana, J. S.; Koczkur, K. M.; Skrabalak, S. E.* "Synthesis of Core@Shell Nanostructures in a Continuous Flow Droplet Reactor: Controlling Structure through Relative Flow Rates" *Langmuir,* **2017,** *33,* 6054-6061. DOI: 10.1021/acs.langmuir.7b00680.

(72) Kunz, M. R.; McClain, S. M.; Chen, D. P.; Koczkur, K. M.; Weiner, R. G.; Skrabalak, S. E.* "Seed-Mediated Co-Reduction in a Large Lattice Mismatch System: Synthesis of Pd-Cu Nanostructures" *Nanoscale,* **2017,** *9,* 7570-7576. DOI: 10.1039/c7nr02918g.

(71) Smith, A. F.; Skrabalak, S. E.* "Metal Nanomaterials for Optical Anti-counterfeit Labels" *Journal of Materials Chemistry C* (invited article), **2017,** *5,* 3207-3215. DOI: 10.1039/C7TC00080D.



(70) Fu, J.; Daanen, N. N., Rugen, E. E.; Chen, D. P.; Skrabalak, S. E.* "Simple Setup for Ultrasonic Spray Synthesis of Nanostructured Materials" *Chemistry of Materials* (invited manuscript – Methods and Protocols Special Issue), **2017,** *29,* 62-68. DOI: 10.1021/acs.chemmater.6b02660.

(69) Ataee-Esfahani, H.; Skrabalak, S. E.* "Manipulating the Architecture of Pd@Pt Nanostructures through Metal-Selective Capping Agent Interactions" *Chemical Communications,* **2016,** *52,* 10783-10786. DOI: 10.1039/c6cc04849h.

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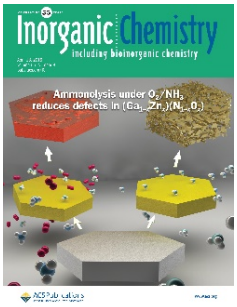

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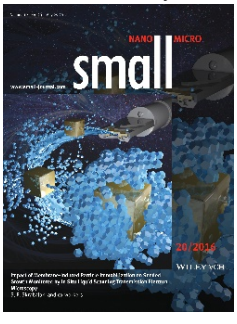

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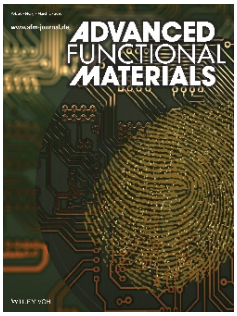

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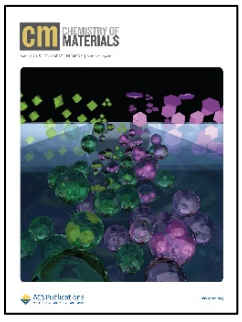

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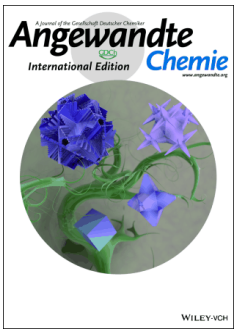

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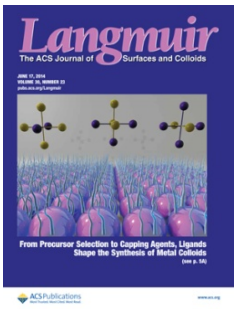

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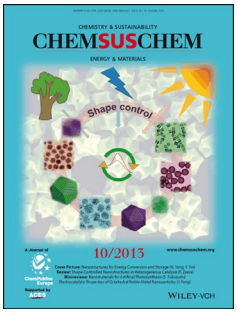

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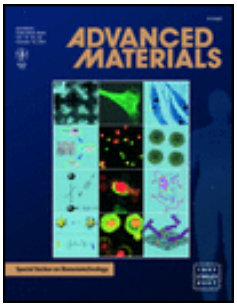

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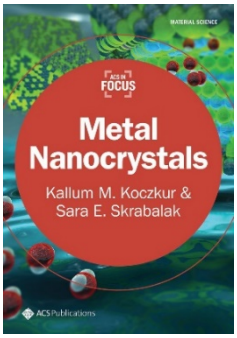

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(4) Bower, M. M.; Harvey, S. M.; Richter, A. J.; Skrabalak, S. E.* "Introducing High School Students to Chemical Research through Science Ambassadors" In *Educational and Outreach Projects from the Cottrell Scholars Collaborative, Professional Development and Outreach, Volume 2*; Waterman, R.; Feig, A., Eds.; ACS Books, **2017,** p. 85-94. DOI: 10.1021/bk-2017-1259.ch007.

(3) Skrabalak S. E.;* Steinmiller, E. M. P. "Introducing Global Climate Change and Renewable Energy with Media Sources and a Simple Demonstration" In *Sustainability in the Chemistry Curriculum*; Middlecamp, C. H.; Jorgensen, A. A., Eds.; ACS Books, **2012,** p. 203-213. DOI: dx.doi.org/10.1021/bk-2011-1087.ch018.

(2) Skrabalak, S. E.; Suslick, K. S. "Aerosol Spray Synthesis of Porous Molybdenum Sulfide Powder" In *Material Syntheses: A Practical Guide*; Schubert, U., Ed.; Springer, **2008**, 83-88. DOI: dx.doi.org/10.1007/978-3-211-75125-1_11.

(1) Suslick, K. S.; Skrabalak, S. E. "Sonocatalysis" In *Handbook of Heterogeneous Catalysis;* Ertl, G.; Knozinger, H.; Weitkamp, J., Eds.; Wiley-VCH: Weinheim, **2008**, 2007-2017. DOI: dx.doi.org/10.1002/9783527610044.hetcat0107.

Editorials:

(5) Skrabalak, S. E.* "Writing Effective Review Articles" *Chemistry of Materials,* **2021,** *3,* TBD.

(4) Toro, C.;* Skrabalak, S. E.* "When Spectroscopy Met Carbon Materials: An Interview with Richard McCreery for Chemistry of Materials' 1k Club" *Chemistry of Materials,* **2021,** *3,* TBD.

(3) Liu, B.;* Skrabalak, S. E.* "ACS Materials Letters at 1.5 Years" *ACS Materials Letters,* **2021,** *3,* 134-135. DOI: 10.1021/acsmaterialslett.0c00579.

(2) Skrabalak, S. E.* "Our Most Downloaded Papers Published in 2020" *Chemistry of Materials,* **2021,** *33,* 1-3. DOI: 10.1021/acs.chemmater.0c04607.

(1) Skrabalak, S. E.* "Honoring the Past, Embracing the Present, and Inspiring the Future of Materials-Based Research"
Chemistry of Materials, **2020,** *32,* 9477-9478. DOI: 10.1021/acs.chemmater.0c03867.
ACS Materials Letters, **2020,** *2,* 1615-1616. DOI: 10.1021/acsmaterialslett.0c00468.

Popularizations:

(5) Skrabalak, S. E.*, Chen, J.;* Neretina, S.;* Qin, D.* "Beyond the Gold Standard: Bimetallic Nanomaterials Bring New Properties and Function" *Particle & Particle Systems Characterization* (invited Editorial for Special Issue: *Bimetallics*), **2018,** *35,* 1800111. DOI: 10.1002/ppsc.201800111.

(4) Skrabalak, S. E.* "Mashing up metals with carbo-thermal shock: Many elements can be combined in the formation of high-entropy alloy nanoparticles" *Science Magazine* (invited Perspective), **2018,** *359,* 1467. DOI: 10.1126/science.aat1471.

(3) Brutchey, R. L.;* Skrabalak, S. E.* "Going with the Flow: Continuous Flow Routes to Colloidal Nanocrystals" *Chemistry of Materials* (invited editorial), **2016**, *28,* 1003-1005. DOI: 10.1021/acs.chemmater.6b00472.

(2) Smith, A. F.;* Skrabalak, S. E.* "Plasmonic Possibilities: Tomorrow's Sensors and More" Naval Science and Technology: Future Force Magazine, **Fall 2015,** *2,* 20-21.

(1) Xia, Y.; Skrabalak, S. E. "Improving biomedical imaging with gold nanocages" *SPIE Newsroom,* **12 May 2008**¸ DOI: dx.doi.org/10.1117/2.1200805.1135.

Citations:

January 2021 from *Goggle Scholar*
h-index = 43
i10-index = 88
Total citations = 14987

January 2021 from *Web of Science*
h-index = 37
Total citations = 11,196

General Media:

- Featured Guest on the *New Chemist Podcast* by David Ferguson.
- Professor Skrabalak named editor of prestigious ACS journals: https://college.indiana.edu/news-events/news/skrabalak-sara.html
- AAAS Fellows Announcement: https://www.aaas.org/news/aaas-announces-leading-scientists-elected-2020-fellows?utm_campaign=ACohen&utm_source=AAAS&utm_medium=Facebook
- AAAS Fellows Announcement: https://news.iu.edu/stories/2020/11/iu/releases/24-faculty-named-aaas-fellows.html?_ga=2.1957940.420249447.1606247627-1046815322.1512525396
- Interview with Professor Skrabalak as Editor-in-Chief https://axial.acs.org/2020/11/09/chemistry-of-materials-acs-materials-letters-sara-e-skrabalak/

• Professor Skrabalak appointed Editor-in-Chief of Chemistry of Materials and ACS Materials Letters: https://www.acs.org/content/acs/en/pressroom/newsreleases/2020/november/sara-e-skrabalak-appointed-as-editor-in-chief-of-chemistry-of-materials-and-acs-materials-letters.html?hootPostID=bea285a6145c6882a61a45e8bdd73d21
• Professor Skrabalak appointed Editor-in-Chief of Chemistry of Materials and ACS Materials Letters: https://cen.acs.org/acs-news/publishing/Sara-E-Skrabalak-named-editor/98/web/2020/11
• Professor Skrabalak appointed Editor-in-Chief of Chemistry of Materials and ACS Materials Letters:
• Professor Skrabalak and Josh Santana as participants in JUAMI: https://www.cambridge.org/core/journals/mrs-bulletin/article/third-juami-connects-us-and-african-fellows-around-sustainable-energy-materials-in-uganda/85F30334FC287C91EE0B4514F63891A0
• Professor Skrabalak and IN3 Collaboration: https://news.iu.edu/stories/2019/02/iu/04-indiana-innovation-institute-in3-advances-high-tech-researchers-work.html?utm_source=2019-02-06&utm_term=inside_iu&utm_medium=email&utm_content=IU%20Innovation&utm_campaign=sf
• Professor Skrabalak joins IN3 funded project on secured electronics: https://news.iu.edu/stories/2019/01/iub/07-sara-skrabalak-in3-indiana-innovation-institute.html
• Professor Skrabalak discusses her FRED project with Research Corporation for Science Advancement: https://vimeo.com/242651506
• Professor Skrabalak recognized by IU Newsroom for Guggenheim Fellowship: https://news.iu.edu/stories/2017/04/iub/releases/13-guggenheim-fellows.html
• Professor Skrabalak recognized for Guggenheim Fellowship in Washington University's *The Source*: https://source.wustl.edu/2017/04/stark-wins-guggenheim-fellowship/
• People Behind the Science Podcast – Stories from Scientists about Science, Life, Research, and Science Careers: http://www.peoplebehindthescience.com/dr-sara-skrabalak/
• Highlighted in Inside IU for collaboration and innovation: http://inside.indiana.edu/features/videos/2015-09-30-sara-skrabalak.shtml
• North Jersey Section of the ACS announcement of Baekeland Award http://www.njacs.org/wp-content/uploads/2015-Baekeland-Award-Article.pdf.
• C&EN announcement of Baekeland Award http://cen.acs.org/articles/94/i6/Baekeland-Award-Sara-Skrabalak.html
• Baekeland Award Highlight in *Angew. Chem.,* **2016,** *55,* 6134. DOI: 10.1002/anie.201603787v.
• Ott Lecture press release from Grand Valley State University: http://www.gvsu.edu/gvnow/2016/ott-lecture-to-explore-nanomaterials-9312.00000.htm
• NorthWood High School grad Connor Bunch gains undergraduate research experience at Indiana University: http://m.elkharttruth.com/news/schools/northwood-high-school/2015/12/28/NorthWood-High-School-grad-Connor-Bunch.html
• Skrabalak Group members featured for undergraduate-graduate student collaboration: http://viewpoints.iu.edu/student-experience/2015/12/16/collaborative-partnerships-benefit-undergraduate-graduate-student-researchers/
• Educational efforts highlighted in Middlecamp, C. H. "Teaching and Learning about Sustainability: The View from CHED" ACS Books
• Announcement of Rudy Professorship at Indiana University http://inside.iub.edu/headlines/2015-01-22-from-the-desk.shtml
• Announcement of Scialog Collaborative Innovation Award http://www.rescorp.org/news-and-publications/news/detail/four-teams-win-2014-scialog-collaborative-innovation-awards
• Announcement of Indiana University's Engineering Task Force http://itnews.iu.edu/articles/2014/blue-ribbon-committee-to-assess-establishment-of-new-engineering-program-at-iu-bloomington.php
• Profiled in the ACS WCC Fall 2014 Newsletter: http://www.womenchemists.sites.acs.org/
• Identified in the Herald Times (Bloomington, IN) for outreach activities at Wonderlab: http://www.heraldtimesonline.com/news/community/wonderlab-event-to-showcase-iu-nanoscientists-and-their-work/article_59bd91b1-03c8-5265-942f-39f4d2b0cdcc.html
• Identified in the Herald Times (Bloomington, IN) as Camille Dreyfus Teacher Scholar: http://www.heraldtimesonline.com/news/local/news-from-iu-assistant-chemistry-professor-named-dreyfus-teacher-scholar/article_bca2be18-fbdb-55e1-ad5e-234530acd3dd.html
• Identified in the Indiana Daily Student (Bloomington, IN) as Camille Dreyfus Teacher Scholar: http://www.idsnews.com/news/story.aspx?id=98393

• Identified in IU News Room as Camille Dreyfus Teacher Scholar:
http://news.indiana.edu/releases/iu/2014/05/skrabalak-named-dreyfus-scholar.shtml
• Group's work highlighted in the Indiana University's Annual Report by the Vice President for Research, 2013.
http://www.iu.edu/~vpr/communications.shtml
• Identified for Pure Chemistry Award Address in the Spring-Summer 2014 Division of Inorganic Chemistry Newsletter (American Chemical Society). http://acsdic.org/wordpress/newsletters-2/
• 2014 ACS National Award Winners Vignettes, ACS Award in Pure Chemistry, Chemical and Chemical Engineering News, Volume 92, Issue 6, page 34, written by Susan J. Ainsworth.
http://cen.acs.org/articles/92/i6/ACS-Award-Pure-Chemistry.html
• Profiled by Washington University in St. Louis Chemistry Department:
http://www.chemistry.wustl.edu/news/wuchem-alum-sara-skrabalak-wins-acs-pure-chemistry-award
• Profiled on Women in Nanoscience Blog:
http://www.womeninnano.org/apps/blog/show/41963738-sara-skrabalak-awarded-2014-acs-pure-chemistry-award
• Pure Chemistry Award Address advertised in Buriak, J. M. "Chemistry and Materials in the Spotlight at the Dallas Spring Meeting" *Chemistry of Materials,* 2014, *26,* 1501.
• Profiled in Hometown Paper, The Indiana Gazette: http://www.indianagazette.com/news/indiana-news/indiana-native-wins-800000-grant-for-research,17467463/
• Identified in the Herald Times (Bloomington, IN) as a Sloan Research Fellow:
http://www.heraldtimesonline.com/stories/2013/03/09/news.qp-3788848.sto
• Identified in New York Times as a Sloan Research Fellow:
http://www.sloan.org/fileadmin/media/files/press_releases/2013_SRF_Press_Release_vf.pdf
• Identified in IU News Room as Sloan Research Fellow: http://newsinfo.iu.edu/news/page/normal/23893.html
• Identified in Huffington Post article "Leading Scholar-Educators Address Undergraduate Science Education" See http://www.huffingtonpost.com/james-m-gentile/leading-scholareducators-_b_1683028.html
• Identified in IU News Room as Cottrell Scholar: http://newsinfo.iu.edu/news/page/normal/23092.html
• Identified in IU News Room for receiving NSF MRI funding for instrumentation in Nanoscale Characterization Facility: http://newsinfo.iu.edu/web/page/normal/19928.html
• Expert commentator in RSC's *Chemistry World*.
See http://www.rsc.org/chemistryworld/News/2011/April/18041101.asp
• Featured in the Spring 2011 edition of *Chemistry Periodical,* a Washington University in St. Louis publication. See http://www.chemistry.wustl.edu/chemistry_periodical
• Selected for *"Who's Who in America"* in 2010.
• See IU Homepages, Fall 2009: http://homepages.indiana.edu/web/page/normal/10109.html
• See IU "A Day in the Life of the College", Fall 2009 http://college.indiana.edu/gallery/gallery2.shtml

Presentations:

2022

- Plenary Speaker, SHIFT Conference, Tenerife, Canary Islands (Oct. 10-14)
- Plenary Speaker, 5th International Symposium on Nanoparticles, Nanomaterials, and their Applications (ISN2A 2022), Costa de Caparica, Portugal (Jan. 20-23)

2021

- MilliporeSigma Inorganic Nano-Materials Lectureship, UCLA (TBD)
- Eminent Scientist Lecture, ACS Northwest Regional Meeting, May 10 – *Virtual*
- Invited Speaker, Crano Memorial Lectures, Akron Section of the ACS and University of Akron, TBD - *Virtual*
- Invited Speaker, MRS National Spring Meeting, *Molecular and Colloidal Plasmonics – Synthesis and Applications* (April 18-23 – *Virtual*)
- Invited Speaker, ACS National Spring Meeting, *Colloid Division's Nanomaterials Symposium,* (April 6-16 – *Virtual*)
- Invited Speaker, ACS National Spring Meeting, *Meeting the Challenges of Heterogeneous Catalysis Controlled at Molecular and Atomic Level* (April 6-16 – *Virtual*)
- Invited Speaker, ACS National Spring Meeting, *Cathy Murphy's ACS Award Symposium in Inorganic Chemistry* (April 6-16 – *Virtual*)
- Invited Speaker, Center for Nanoscale Materials, Argonne National Laboratory (March 3)
- Invited Speaker, International Women's Day Celebration Lecture, King Abdullah University of Science and Technology, Saudi Arabia (*Virtual* – March 8)
- Invited Speaker, ACS Science Talks 2021 sponsored by ACS-India (*Virtual* – Feb. 19)

- Invited Speaker, ACS Materials Letters Webinar Series (*Virtual* – Jan. 22)
- Discussion Leader, Crystal Growth and Assembly Gordon Research Conference, Southern New Hampshire University (June 20-25)

2020 (6 cancelled invited talks due to covid-19 pandemic not included)

- Mercator Lectureships, Friedrich-Alexander Universitat Erlangen-Nurnberg, October 7, 14, 21, 28 and December 9 *Virtual*
- Invited Speaker, 1st Virtual Asian Chemical Editorial Society/Chemical Research Society of India Symposium (ACES/CRSI), October 5-9
- Invited Speaker, US-UK Catalysis Workshop co-sponsored by DOE-BAS and UK Catalysis Hub (*Virtual* - October 8)
- Invited Speaker, International Association of Advanced Materials (IAAM; Sweden), Advanced Materials Lecture Series, IAAM Innovation Award Lecture (*Virtual* September 16)
- Invited Speaker, Oak Ridge National Laboratory's CNMS User Meeting (*Virtual* - August 11-12)
- Invited Participant, Cottrell Scholars Collaborative Meeting by Research Corporation for Science Advancement, *Online Education,* July 8-10 *Virtual*
- Invited Speaker, ACS National Spring Meeting, Symposium: *Colloid & Surface Chemistry Division Nanomaterials Symposium,* Philadelphia, PA (March 22-26) *Virtual*
- Discussion Leader, Atomically Precise Nanochemistry Gordon Research Conference, Galveston, Texas (Feb. 9-14)
- Invited Speaker, Indiana University's Preparing Future Faculty, Feb. 7
- Keynote Speaker, 4th International Symposium on Nanoparticles and Nanomaterials and Applications – ISN^2A 2020, Costa de Caparica, Portugal (Jan. 20-24)
- Chemistry Department Seminars: Northwestern (International Institute for Nanoscience, March 5), University of Pittsburgh (Chemical Engineering, January 10), Pennsylvania State University (Oct. 29 – *virtual*), Elon University (Nov. 12 – *virtual*)
- Contributed Presentations: Atomically Precise Nanochemistry Gordon Research Conference (1 PI, 1 student poster), Microscopy & Microanalysis Conference (1 student poster - *Virtual*), ACS Fall Conference (1 student poster – *Virtual*)

2019

- Invited Speaker, Applied Nanotechnology and Nanoscience International Conference, Paris, France (Nov. 18-20)
- Invited Speaker, UC-Davis Inaugural Inorganic Symposium (Nov. 7)
- Invited Speaker, Association for Crystallization Technology Larson Workshop, Chicago, IL (Sept. 29-Oct. 2)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations,* San Diego, CA (Aug. 25-29)
- Invited Speaker, ACS National Spring Meeting, Symposium: *Chemistry at the Interface of Solution-Processed Inorganic Materials*, Orlando, Florida (Mar. 31-Apr. 4)
- Invited Speaker, ACS National Spring Meeting, Symposium: *Surface Chemistry of Colloidal Nanocrystals,* Orlando, Florida (Mar. 31-Apr. 4)
- Invited Speaker, MRS National Spring Meeting, Symposium: *Cooperative Catalysis for Energy and Environmental Applications,* Phoenix, Arizona (Apr. 22-26)
- Chemistry Department Seminars: Wesleyan University (March 29), University of Minnesota (CEMS, Apr. 9), UC San Diego (May 10), Soochow University (June 16), Nanjing Normal University (June 18), University of Virginia (Sept. 11), University of Toronto (Sept. 17), Ecole Polytechnique Federale de Lausanne (EPFL, Nov. 21), EPFL-Valais (Nov. 22)
- Contributed Presentations: ACS National Spring Meeting (3 student/1 collaborator presentation), MRS Spring Meeting (2 student presentations), ACS National Fall Meeting (4 student presentations), Microscopy & Microanalysis (1 collaborator presentation)

2018

- Invited Speaker, Joint US-Africa Materials Institute (JUAMI), Workshop: *Materials for Sustainable Energy,* Kampala, Uganda (Dec 9-20)
- Invited Speaker, Women in Chemistry, Informal Q&A with Professor Skrabalak, Indiana University (Dec. 6)
- Invited Speaker, MRS National Fall Meeting, Symposium: *Nanometal - Synthesis, Properties, and Applications,* Boston MA (Nov. 25-30)
- Invited Speaker, Science Philanthropy Alliance, Members' Meeting, (Sept. 18)
- Invited Speaker, XXVII International Materials Research Congress (MRS-Mexico), Symposium: *Materials and the Environment,* Cancun, Mexico (Aug. 19-24)

- Invited Speaker, XXVII International Materials Research Congress (MRS-Mexico), Symposium: *Challenges in Materials and Technologies for Energy Conversion, Saving and Storage,* Cancun, Mexico (Aug. 19-24)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Women in Nanoscience,* Boston, MA (Aug. 20)
- Invited Speaker, FRED Award Address, Cottrell Scholars Conference, Research Corporation for Science Advancement (July)
- Invited Facilitator of "Power Hour" discussion on women in science, Noble Metal Nanoparticles Gordon Research Conference, Mount Holyoke College (June 17-22)
- Invited Conference Mentor and Career Panel Speaker, Noble Metal Nanoparticles Gordon Research Seminar, Mount Holyoke College (June 16-17)
- Invited Speaker, Fulbright Mid-Year Seminar, Salamanca, Spain (Jan. 30 – Feb. 2)
- Chemistry Department Seminars: CICbiomaGUNE (Spain, Jan. 25), University of Vigo (Spain, Apr. 5), University of Central London (England, May 1), University of Erlangen - Nuremberg (Germany, May 3), University of Antwerp (Belgium, May 8), University of South Carolina (Chemical Engineering, Sept. 20), St. Olaf (Sept. 13), University of Michigan (Nov. 8), University of Southern California (Nov. 6)
- Contributed Presentations: ACS National Spring Meeting (3 student presentations), Noble Metal Nanoparticle GRC (2 student presentations), MRS Fall Meeting (3 student presentations)

2017

- Invited Speaker, Magomedov-Shcherbinina Memorial Lecture, University of Rochester, Department of Chemistry (Sept. 20)
- Invited Speaker, ACS National Meeting, Symposium: *Noble Metal Nanoparticles for Bioimaging, Sensing & Actuation,* Washington DC (Aug. 20-24)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Advanced Nanomaterials Catalysts for Sustainable Energy & Fuel,* Washington DC (Aug. 20-24)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Photoresponsive Nanoparticles: From Fundamentals of Excitation to Applications,* Washington DC (Aug. 20-24)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Transformational Research, Excellence in Education,* Washington DC (Aug. 20-24)
- Invited Speaker, BES Catalysis Science Research PI Meeting: *Advances in the Design & Synthesis of Multimetallic Nanocatalysts,* (July 24-28)
- Invited Speaker, Canadian Society of Chemistry National Conference, Symposium: *Nano and Hybrid Materials,* Toronto, Canada (May 28-June 1)
- Invited Speaker, ACS National Spring Meeting, Symposium: *Nanoscale Materials: Structure and Function in 0, 1, and 2-dimensions,* San Francisco, CA (April 2-6)
- Invited Speaker, ACS National Spring Meeting, Symposium: *Synthesis of Catalysts by Non-Traditional Methods*, San Francisco, CA (April 2-6)
- Invited Speaker, Materials Research Society Spring Meeting, Symposium: *Molecular and Colloidal Plasmonics – Synthesis and Applications,* Phoenix, AZ (April 17 -21)
- Invited Speaker, Pittcon, Symposium: *Plasmonic Toolbox for Chemical Analysis,* Chicago, IL (March 5-9)
- Chemistry Department Seminars: University of California – Berkeley (Feb. 10), MIT (Materials Science & Engineering, Sept. 14), University of Missouri – Columbia (Sept. 29)
- Contributed Presentations: ACS Midwest Regional Conference (1 undergrad presentation), MRS Spring Meeting (2 postdoctoral presentations), ACS National Spring Conference (2 grad student and 1 postdoctoral presentation)

2016

- Invited Speaker, Indiana University Student Section of SACNAS Meeting (Nov. 9)
- Invited Speaker, ACS National Fall Meeting, Symposium: *Nanoscience Award Symposium in Honor of Raymond Schaak,* Philadelphia, PA
- Invited Speaker, Crane-IU Engagement with MSIs (July 27)
- Invited Speaker, Noble Metal Nanoparticle Gordon Research Conference, Mount Holyoke College, MA
- Invited Speaker, Joint US-Africa Materials Institute (JUAMI), Workshop: *Materials for Sustainable Energy,* Arusha, Tanzania (May 29-June 10)
- Invited Speaker, Endowed Arnold C. Ott Lectureship, Grand Valley State University, Department of Chemistry (Apr. 14/15)
- Invited Speaker, DOW Endowed Lectureship, University of Minnesota, Department of Chemistry (Mar. 10)
- Invited Speaker, Student Affiliates of the ACS, IU-Bloomington, *Research Night* (April 26)

- Invited Panel Speaker, Indiana University Getting You into IU Program (Oct. 18)
- Invited Poster Presentation, Symposium on Research Frontiers in the Chemical Sciences, Camille & Henry Dreyfus Foundation, New York City, NY (Oct 28)
- Chemistry Department Seminars: University of Akron (Oct. 4), Depauw University (Nov. 3)
- Contributed Presentations: 33rd Annual Battery Seminar & Exhibit (1 student presentation), Noble Metal Nanoparticle GRC (1 student presentation), Solid State Chemistry GRC (1 student presentation), ACS National Fall Meeting (1 student presentation), Chicago Catalysis Club (1 student presentation), MRS National Fall Meeting (2 student presentations)

2015

- Invited Speaker, Denkewalter Endowed Lecture, Loyola University – Chicago, Department of Chemistry (Sept. 24)
- Invited Speaker, Baekeland Award Address, Rutgers University (Dec. 4)
- Invited Speaker, Pacifichem 2015, Symposium: *Applications of Ultrasound to Nanomaterials,* Honolulu, HI (Dec. 15-20)
- Invited Speaker, Pacifichem 2015, Symposium: *Organic, Inorganic and Hybrid Nanoparticles: Synthesis, Characterization, and Applications,* Honolulu, HI (Dec. 15-20)
- Invited Speaker, Research Corporation for Science Advancement 2015 Board Meeting (Nov. 6)
- Invited Speaker, XXIV International Materials Research Congress (IMRC), Symposium: *Materials and the Environment*, Cancun, Mexico (August 16-20)
- Invited Speaker, XXIV International Materials Research Congress (IMRC), Symposium: *Frontiers in Plasmonic Materials*, Cancun, Mexico (August 16-20)
- Invited Speaker, 19th Annual ACS Green Chemistry & Engineering Conference, Symposium: *Strategic, Sustainable Chemistries to Functional Materials*, N. Bethesda, MD (July 14-16)
- Invited Speaker, International Conference on Materials for Advanced Technologies – Materials Research Society ICMAT-MRS 2015, Symposium: *Synthesis & Architecture of Nanomaterials*, Singapore (June 28-July 3)
- Invited Speaker, Naval Surface Warfare Center Crane Division, The Failure and Material Analysis Branch, GXMS Laboratory (Jan. 6)
- Chemistry Department Seminars: University of California – Irvine (Chemistry at the Space-Time Limit Center, broadcast via Webex to CaSTL partner universities: University of Utah, University of Pittsburgh, Northwestern, and Penn State, Jan. 29), California Institute of Technology (Feb. 23), University of Cincinnati (Feb. 27), Barnard College (Program Planning Meeting; Mar. 27), Butler University (Apr. 24), Nanyang Technological University, Singapore (June 26), Calvin College (Sept. 10), Hope College (Sept. 11)
- Contributed Presentations: MRS National Spring Meeting (San Francisco, CA; 2 student presentations), ICMAT-MRS 2015 (1 student presentation), North American Solid State Chemistry Conference (2 student presentations), Pacifichem (3 student presentations), Fall ACS Conference (2 student presentations)

2014

- Invited Plenary Speaker, Central Regional Meeting of the American Chemical Society, Pittsburgh, PA (Oct. 31)
- Invited Speaker, IUMRS International Conference of Young Researchers on Advanced Materials (Haikou, China)
- Invited Speaker, ACS National Fall Meeting, San Francisco, CA
- Invited Speaker, Solid State Chemistry Gordon Research Conference, Colby-Sawyer College, NH
- Invited Speaker, Cottrell Scholars Conference, Tucson, AZ, July 9-11
- Invited Speaker, ACS National Spring Meeting, Dallas, TX – Pure Chemistry Award Address
- Invited Speaker, Pitt-PPG "Innovations in Materials Chemistry" Symposium (May 1-3)
- Distinguished Alumni Seminar, University of Illinois at Urbana-Champaign, Department of Chemistry, April 17-18
- Chemistry Department Seminars: University of Chicago (January 10), University of Wisconsin (Department of Chemical and Biological Engineering; February 11), University of West Virginia (March 26), Central College (April 9), University of Iowa (April 10), Iowa State University (April 11), Cornell University (April 28), Michigan State (September 15), University of Science and Technology China (Hefei, China, USTC, Oct. 23)
- Invited Poster Presentations: DOE Catalysis Science Program (Annapolis, MD; July 20-23), Scialog: Solar Energy Conversion (Research Corporation for Science Advancement, Biosphere 2, AZ Oct. 14-17)
- Invited Panelist: Women in Science Panel on Negotiations (Indiana University – Bloomington), NSF CAREER Workshop for pre-tenure faculty (Indiana University – Bloomington, April 4)
- Contributed Presentations: MRS National Spring Meeting (San Francisco, CA; 2 student presentations), Noble Metal Nanoparticle Gordon Research Conference (+2 student presentations), Solid State Chemistry Gordon Research Conference (1 student presentation), IUMRS International Conference of Young Researchers on Advanced Materials

(China, 2 student presentations), ACS National Fall Meeting (San Francisco, CA; 3 student presentations), Hutton Honors College (Indiana University; 1 student presentation), IU's NoBCChE (Indiana University, 4 student presentations)

- Collaborator Presentations: Pittcon (Chicago, IL; 1 student presentation), HPLC 2014 (New Orleans, LA; 1 student presentation)

2013

- Invited Speaker, Zing Conference on Nanomaterials, Cancun, Mexico
- Invited Speaker, ACS National Fall Meeting, Indianapolis, IN
- Invited Speaker, ACS National Spring Meeting, New Orleans, LA (GREET mentor-mentee presentation)
- Chemistry Department Seminars: University of Arkansas (Dec. 2), Boston College (Oct. 17), Indiana University (Aug. 29), University of California – Berkeley (Apr. 5), Wayne State University (Mar. 28), Ohio State University (Mar. 19), California Institute of Technology (Department of Chemical Engineering; Mar. 7), University of California – Los Angeles (Mar. 6), University of California – Riverside (Mar. 4), University of Illinois at Urbana-Champaign (Feb. 21), Purdue University (Feb. 19), University of Notre Dame (Feb. 7), Pennsylvania State University (Feb. 5), Northern Kentucky University (Jan. 23), University of Miami (Jan. 18), Emory University (Jan. 17), Georgia Institute of Technology (Jan. 16), University of California at Santa Barbara (Jan. 9)
- Contributed Presentations: ACS National Fall Meeting (Indianapolis, IN; 2 student presentations and 3 student posters), MRS National Fall Meeting (Boston, MA; 1 student presentation)

2012

- Invited Speaker, Noble Metal Nanoparticle Gordon Research Conference, Mount Holyoke College, MA
- Invited Speaker, ACS National Fall Meeting, Philadelphia, PA (+3 student presentations)
- Invited Speaker, STEM GROUPS Initiative for Under-Represented Groups, Indiana University (Sept. 19)
- Invited Speaker, Cottrell Scholar Conference, Tucson, AZ
- Chemistry Department Seminars: Rice University (Dec. 5), Northwestern University (Nov. 16), University of Auckland (New Zealand, Oct. 11), Victoria University of Wellington (New Zealand, Oct. 5), National University of Singapore (Department of Chemical and Biomolecular Engineering), Indiana University – Bloomington (School of Public and Environmental Affairs)
- Contributed Presentations: Solid State Chemistry Gordon Research Conference (Colby-Sawyer College, NH), Noble Metal Nanoparticle Gordon Research Conference (Mount Holyoke College, MA; 1 student presentation), IUMRS International Conference of Young Researchers on Advanced Materials (Singapore; 1 oral, 1 poster presentation; Best Poster Awardee), ACS National Fall Meeting, Philadelphia, PA (3 student presentations)

2011

- Invited Speaker, Central Regional Meeting of the ACS, Indianapolis IN
- Invited Speaker, Molecules Matters Workshop, Indiana University
- Invited Speaker, "Tales from the Trenches: Strategies for Teaching Effectively", Indiana University
- Chemistry Department Seminars: Youngstown State University
- Contributed Presentations: PINDU Inorganic Conference (Indiana University; 4 student presentations), NoBCChe Conference (Indiana University; 1 student presentation), Annual Nanotechnology Symposium at Sullivan University (Louisville, KY; 1 student presentation), ACS National Fall Meeting (Denver, CO; 1 presentation + 2 student presentations), Clusters, Nanocrystals, and Nanostructures Gordon Research Conference (Mount Holyoke College, MA), 85th ACS Colloid and Surface Science Symposium (Montreal Canada; 2 presentations) NoBCChe National Meeting, Houston, TX (1 student presentation), SACNAS Regional Meeting (Chicago, IL; 1 student presentation), ACS National Spring Meeting (Anaheim, CA; 1 student presentation), MRS National Spring Conference (San Francisco, CA; 1 student presentation), Central Regional Meeting of the ACS, Indianapolis IN (4 student presentations)

2010

- Invited Speaker, Pacifichem, Honolulu, HI (2 presentations)
- Invited Speaker, Nanoscience and Project-Based Learning Workshop, Indiana University
- Invited speaker, Heterogeneous Catalysis Workshop, Indiana University Nanoscience Center
- Chemistry Department Seminars: Washington University in St. Louis, Wright State University, Texas Tech University
- Contributed Presentations: MRS National Fall Conference (Boston, MA; 2 presentations), PINDU Inorganic Conference (Purdue University; 3 student presentations), Noble Metal Nanoparticle Gordon Research Conference (Mount Holyoke College, MA), Central Regional Meeting of the ACS (Dayton OH, 2 student presentations), Women

in Science Program's Research Conference (Indiana University, 2 student presentations), ACS National Spring Meeting (San Francisco, CA; 2 presentations)

2009

- Invited Speaker, Federation of Analytical Chemistry and Spectroscopy Societies, Annual Meeting, Louisville, KY
- Invited Speaker, Women Chemist Committee Brown Bag Series, University of Illinois at Urbana - Champaign
- Invited Keynote Speaker, Women in Science Undergraduate Research Conference, Indiana University
- Contributed Presentations: PINDU Inorganic Conference (University of Notre Dame, IN; 2 student presentations), MRS National Fall Conference (Boston, MA; student presentation), ACS National Fall Meeting (Washington, D.C.; student presentation), Women in Science Laboratory Experiences for Undergraduates (Laboratory Tour, Indiana University), MRS National Spring Conference (San Francisco, CA)

2008

- Invited Speaker, Southeastern Regional Meeting of the ACS, Nashville TN
- Invited Speaker, Advance College Project, Indiana University
- Chemistry Department Seminars: Truman State University, Purdue University (School of Materials Engineering), Indiana State University
- Contributed Presentations: ACS National Spring Meeting (New Orleans LA), 14th Annual International Catalysis Conference (Seoul, Korea; collaborator presentation), Society of Photographic Instrumentation Engineers (SPIE) National Meeting (collaborator presentation)

2007

- Contributed Presentations: MRS National Fall Conference (Boston MA)

2006

- Contributed Presentations: ACS National Spring Meeting (San Francisco CA), Nanotechnology Workshop (Beckman Institute, University of Illinois, Urbana IL), ACS National Fall Meeting (Atlanta GA)

2005

- Contributed Presentations: MRS Three-Dimensional Multifunctional Ceramic Composite Workshop (University of Illinois, Urbana IL)

2004

- Contributed Presentations: ACS Great Lakes Regional Meeting (Peoria IL)

Teaching Experience:

Course Instructor, Indiana University

Chem C505	Professional Development Seminar; F. 2019, F. 2020
Chem C500	Introduction of Research; F. 2019
Chem C117+	Principles of Chemistry and Biochemistry; S. 2019
Chem M501	Solid-state and Materials Chemistry; S. 2015, F. 2015, F. 2016
Chem C420	Advanced and Nanoscale Materials; S. 2015 (co-taught with T. Douglas), S. 2016 (co-taught with T. Douglas and A. Flood)
Chem 103	Intro to Chemical Principles; F. 2013
Chem M800	Materials Chemistry Research Seminar; F. 2012, S. 2013
Chem M502	Solid-state and Materials Chemistry; S. 2010, S. 2011, S. 2012, S. 2014
Chem 100	The World of Chemistry; F. 2008, F. 2009, F. 2010 (Themester), F. 2011, F. 2012 (Themester)

Guest Lecturer, Indiana University

H241	The Self-Organizing Planet (Hutton Honors College); F. 2013
Chem 107	Frontiers of Chemical Research; S. 2009 - 15, S. 2017, S2019-20, S21
Chem N800	Inorganic Chemistry Research Seminar; S. 2009, F. 2010

Journal Activities:

Promotional/Service Activities (RSC)

2020	Inclusion & Diversity Representative to RSC for *Nanoscale* and *Nanoscale Advances*
Sept. 2019	Meet the Editor Event for *Nanoscale* at the University of Toronto

Guest Editorial

2018	Guest Editor, Special Issue "Bimetallic Nanoparticles", Wiley Journal *Particle*

Editorial Advisory Boards

2021 -	Member, Editorial Advisory Board for the ACS journal, *ACS Nano*
2020 -	Member, Editorial Advisory Board for the RSC Journal, *Nanoscale*
2020 -	Member, Editorial Advisory Board for the RSC Journal, *Nanoscale Advances*
2020 -	Member, International Editorial Advisory Board for the Wiley Journal *Small Structures*
2020 -	Member, Editorial Board Member for Nature-Springer Journal *NS Applied Sciences*
2019 -	Member, Editorial Advisory Board for the RSC Journal *Nanoscale Horizons*
2018 -	Member, International Advisory Board for the Wiley Journal, *Particle*
2016 - 17	Member, Editorial Advisory Board for the RSC Journal *Nanoscale*
2015 -	Member, International Advisory Board for the Wiley Journal *ChemNanoMat*
2014 - 20	Member, Editorial Advisory Board for the ACS journal *Chemistry of Materials*

Reviewer

Science, Nature, Nature Communications, Nature Nanotechnology, Nature Chemistry, PNAS, Journal of the American Chemical Society, Angewandte Chemie, Nano Letters, Advanced Materials, ACS Nano, Chemistry of Materials, Journal of Physical Chemistry C, Journal of Physical Chemistry Letters, Langmuir, Industrial & Engineering Chemistry Research, ACS Applied Materials and Interfaces, Journal of Materials Science, Chemical Science, Chemical Communications, Aerosol Science and Technology, Ultrasonics Sonochemistry, Nanoscale, Nano Research, Crystal Engineering Communications, Crystal Growth & Design, Small, RSC Advances, Microporous and Mesoporous Materials, Journal of Solid State Chemistry, Chemistry: a European Journal, Small, ChemNanoMat, etc.

Professional Activities (Regional, National, and International Service):

2022	Chair, Noble Metal Nanoparticles Gordon Research Conference (reschedule from 2020 covid-19)
2020 – 25	Executive Advisory Board, Center for Sustainable Nanotechnology (PI: Robert Hamers)
2020	Senior Science Advisor, Defense Civilian Auxiliary Corps, National Security Innovation Networks
2020	Subject Chair, #RSCNano, 2020 #RSCPoster Twitter Conference, March 3-4
2020	Session Chair, 4th International Symposium on Nanoparticles and Nanomaterials and Applications – ISN^{2}A, Costa de Caparica, Portugal (Jan. 20-24)
2019 –	Cottrell Scholar Selection Committee
2019 –	Mentorate for Dr. Alberto Leonardi, Habilitand of Faculty of Engineering at Friedrich-Alexander Universitat, Erlangen-Nurnberg
2019	Invited Participant, #InvisibleWorkSTEM Twitter Discussion hosted by C&EN and ACS Chemical Biology
2019	Chair, ACS National Award Selection Committee
2019	Committee Chair, #RSCNano, 2019 #RSCPoster Twitter Conference, March 5-6
2019	Participant, Entering Research Workshop, University of Wisconsin - Madison
2018	Vice Chair, Noble Metal Nanoparticles Gordon Research Conference
2017 – 19	ACS National Award Selection Committee
2017	ACS Regional Award Selection Committee
2017	External Thesis Committee Reviewer, University of New South Wales (Australia)
2017	External Thesis Committee Reviewer, Nanyang Technological University (Singapore)
2016	Group Symposium in Honor of Professor Suslick
2016	Chair, Nanoscience sub-division, Division of Inorganic Chemistry, American Chemical Society
2015	Session Chair, XXIV International Materials Research Congress (IMRC), Symposium: *Materials and the Environment*, Cancun, Mexico (August 16-20)
2015	Chair-elect, Nanoscience sub-division, Division of Inorganic Chemistry, American Chemical Society
2015	Co-organizer of Special Session "Nanocrystal Synthesis, Characterization, Assembly and Applications", Pacifichem 2015, Honolulu, HI
2014	Co-organizer of Special Session "Energy Conversion – Photocatalysis, Fuel Cells & Solar Cells", Second International Conference of Young Researchers on Advanced Materials, Haikou, China
2014	Session Leader of Special Session "Energy Conversion – Photocatalysis, Fuel Cells & Solar Cells", Second International Conference of Young Researchers on Advanced Materials, Haikou, China
2014	Designer of *Nanoparticles for Stained Glass* Station at Wonderlab's "Real Life Science: Nanoscience!" Day, Bloomington, IN

2014	Session Chair, Catalysis Science Program Meeting: Frontiers at the Interface of Homogeneous and Heterogeneous Catalysis (DOE, Annapolis, July 20-23)
2014	Session Chair, "Are new materials needed: the role of synthesis in the design of functional materials" Scialog: Solar Energy Conversion (Research Corporation for Science Advancement), Biosphere 2, AZ (Oct. 14-17)
2014	Session Chair, "Engaging your Students: Service Learning" Cottrell Scholars Conference, Tucson, AZ (July 9-11)
2014	Panel Facilitator, "Engaging the Professional Societies" Cottrell Scholars Collaborative National Teaching Assistant Workshop, Georgia Institute of Technology (May 28-30)
2014	Co-organizer of Cottrell Scholars Collaborative National Teaching Assistant Workshop, Georgia Institute of Technology (May 28-30)
2013	Session Chair (Colloid Division), ACS National Fall Meeting, Indianapolis, IN
2013	Session Chair and Co-organizer of Division of Colloid and Surface Chemistry Special Session "*ACS Award in the Chemistry of Materials*" in honor of Dr. Younan Xia, ACS National Spring Meeting, New Orleans, LA
2012	Co-organizer of Division of Inorganic Chemistry Special Session "*Advanced Metal Nanostructures for Catalysis"*, ACS National Fall Meeting, Philadelphia, PA
2012	Hydrogen Generation and Storage Session Chair, IUMRS-ICYRAM Conference, Singapore
2011	Co-organizer of Division of Colloid and Surface Science Special Session "*Functional Nanoscale Materials: Synthesis, Characterization, and Applications",* CERMACS, Indianapolis, IN
2011	Chair, Southern Indiana Section of the American Chemical Society (SISACS)
2010	Session Chair, Inorganic Division General Session, ACS National Spring Meeting, San Francisco, CA
2010	Chair-elect, Southern Indiana Section of the American Chemical Society (SISACS)
2010	Participant, COACH Workshop, ACS National Spring Meeting, San Francisco, CA

University- and College-Level Service & Committees, Indiana University – Bloomington:

2017	Social Media Co-Chair, Concerned Scientists @ Indiana University
2016 – 2017	Participant, Faculty-Student Mentoring Initiative
2015 – 2016	College Representative, Department of Intelligent Systems Engineering
2015 –	Faculty Supervisor, MRS@IU Student Chapter
2015	Presidential Engineering Task Force, BS Curriculum Committee
2014 – 2015	Presidential Engineering Task Force
2013 – 2017	Electron Microscopy Center Research Advisory Committee
2012 – 2017	Electron Microscopy Center Oversight Committee
2012 – 2015, S2019	Oversight of X-ray Photoelectron Spectroscopy Facility
2010	Co-organizer, Heterogeneous Catalysis Workshop, Nanoscience Center
2008 – 2012	Women in Science Program (WISP, Office for Women Affairs), Executive Committee Member

Department-Level Service & Committees, Indiana University – Bloomington:*

**service is to the Chemistry Department unless noted otherwise*

F2019 –	Director of Graduate Studies
F2019 –	Program Director, MS-to-PhD ACS Bridge Program Partner Status 2019-20; Site Status 2020 –
F2019 –	Member, Policy Committee
F2019 –	Chair, Graduate Standards Committee
2018 –	Faculty Mentorship Committees (Ye, Chemistry; Gumennik and Jadhao, ISE)
2015 – 2016	Materials Faculty Search Committee
2015 – 2017	Coordinator, Research Experience for Undergraduates
2014 – 2017, S2019	Chair, Diversity Affairs Committee
2013 – 2014, F2019 –	Member, Diversity Affairs Committee
2013 – 2014	Inorganic Faculty Search Committee
2013	Coordination Committee for National Fall ACS Conference (Indianapolis)
2010 – 2015	Molecular Structure Center (MSC) Advisory Committee
2009 – 2013	Women in Chemistry (WIChem)
2008 – 2012	Graduate Admissions, Indiana University, Department of Chemistry, Materials Representative

Grant Reviewer:

AAAS (ad hoc: 2017)
U.S. Army Research Office, RDRL-ROE (ad hoc: 2017, 2019)
Science Foundation of Ireland (ad hoc: 2017)
Research Corporation for Science Advancement (ad hoc: 2013 – 2016)
American Chemical Society – GREET Program (2013)
American Chemical Society – Petroleum Research Fund (2012, 2014, 2015)
Department of Energy (ad hoc: 2011 – current for Basic Energy Sciences, 2012 SCGF Program, 2020 director-level program)
National Science Foundation (ad hoc: 2010 – current; panels: 2010 DMR CAREER, 2012 DMR MRI, 2012 CHE CAREER, 2013 DMR DMREF, 2014 DMR SSMC, 2015 MRSEC Site Review, 2016 CHE(2x), 2019 CHE, 2019 MRSEC Site Review, 2020 DMR)
Marsden Fund, New Zealand (ad hoc: 2014)
Indiana University – Bloomington (Faculty Research Support Program, 2010 panel)

Professional Organizations:

Materials Research Society, American Chemical Society, Royal Society of Chemistry, Association for Women in Science, Women Chemist Committee, Phi Beta Kappa Honorary Society, Sigma Xi Scientific Society, Alpha Chi Sigma Professional Chemistry Fraternity, American Association for the Advancement of Science

Current Individuals Supervised in the Skrabalak Laboratory:

Position in Skrabalak Laboratory	**Name**
Graduate Student (2015 –)	Alex Chen
Graduate Student (2016 –)	Sandra Atehortua Bueno
Graduate Student (2016 –)	Hannah Ashberry
Graduate Student (2017 –)	Zachary Woessner
Graduate Student (2017 –)	Matt Gordon
Graduate Student (2018 –)	Kaustav Chatterjee
Graduate Student (2018 –)	Jack Googasian
Graduate Student (2019 –)	Nayana Christudas Beena
Graduate Student (2019 –)	Maha Ibrar
Graduate Student (2019 –)	Ibrahim Shafei
Graduate Student (2017 – 20 Peters, 20 –)	Kelly Rudman
Graduate Student (2018 – 20 Ye, 20 –)	Yuda Li
Graduate Student (2020 –)	Skylar Wappes
Graduate Student (2020 –)	Nabojit Kar
Undergraduate Student (2019 –)	Emma Endres
Undergraduate Student (2020 –)	Joshua Wolfe
Undergraduate Student (2020 –)	Jared Stanley

Previous Individuals Supervised in the Skrabalak Laboratory:

Visiting Faculty	**Name**	**Last Known Position**
2014	Dr. Dale Harak	Associate Professor, Rockhurst University
Postdoctoral Scholars		
2017 – 19	Dr. Dileka Abeysinghe	Process Engineer, Intel, Portland, OR
2015 – 18	Dr. Kallum Koczkur	Research Assistant Professor, Louisiana Tech, Department of Chemistry
2016 – 17	Dr. Solomon Gizaw	Assistant Professor, Addis Ababa University
2015 – 17	Dr. Chenyu Wang	Postdoctoral Scholar, Los Alamos Postdoctoral Scholar, University of Wisconsin Prof. Robert Hamers
2014 – 16	Dr. Hamed Ataee-Esfahani	Product Specialist, Shimadzu Scientific Instruments Postdoctoral Scholar, Georgetown University Prof. YuYe Tong

2012 – 14	Dr. Nathan Motl	Huber Engineered Materials, Senior Scientist
2010 – 11	Dr. Lin Xu	Associate Professor, Nanjing Normal University Postdoctoral Scholar, NTU (Singapore)
2009 – 10	Dr. Ellen Steinmiller	Associate Professor, University of Dallas

Graduate Students (PhD)

2016 – 20	Dr. Joshua Smith	Luna, Inc., Roanoke, VA

Thesis: *Design and Synthesis of Anisotropic Plasmonic Nanocrystals for Security and Sensing Applications*

2015 – 19	Dr. Josh Santana	Lithography Engineer, Intel, Portland, OR

Thesis: *Reactions in Continuous-Flow Droplet Microreactors: a Route to Architecturally Defined Metal Nanostructures*

2015 – 19	Dr. Joceyln L.T. Gamler	Scientist, W.L. Gore and Associates

Thesis: *Designer Nanocatalysts through Strain Engineering*

2012 – 17	Dr. Dennis Chen	Scientist, Advanced Potash Technology Postdoctoral Scholar, MIT Prof. Allanore

Thesis: *Synthesis and Design of Solar-to-Fuel Conversion Materials: A Local Structure Perspective*

2012 – 17	Dr. Jie Fu	Intertek, Champaign-Urbana, IL

Thesis: *Advancing Synthetic Strategies to Materials for Solar-to-Fuel-Conversion*

2012 – 16	Dr. Alison Smith	CRANE, Crane, IN

Thesis: *Optical Properties and Sensing Applications of Stellated and Bimetallic Nanoparticles*

2011 – 16	Dr. Rebecca Weiner	Mars Global Services, Senior Scientist Research Chemist, FDA Institute for Food Safety & Health, Chicago, IL

Thesis: *Synthesis of Multimetallic Nanoparticles by Seeded Methods*

2010 – 15	Dr. Moitree Laskar	Assistant Professor (adhoc), GGDSD College, Chandigarh, India Outreach Coordinator, Skrabalak Laboratory

Thesis: *Manipulation of the Geometric and Electronic Parameters of Metal Nanocatalysts*

2009 – 14	Dr. Christopher J. DeSantis	Managing Editor, ACS Nano Postdoctoral Scholar, Rice University Prof. Naomi Halas

Thesis: *Manipulating the Architecture of Bimetallic Nanostructures and their Plasmonic Properties*

2008 – 14	Dr. Nancy Ortiz	Quaker Chemical, Philadelphia, Development Chemist III Exxon Mobil, Clinton New Jersey, Advanced Researcher

Thesis: *Synthesis of Branched Metal Nanostructures with Controlled Architecture and Composition*

2008 – 12	Dr. Amanda K. P. Mann	Merck, White House Station, New Jersey, Senior Scientist Postdoctoral Scholar, Oak Ridge National Laboratory Dr. Steve Overbury

Thesis: *Synthesis of Shape- and Architecturally Controlled Particles with Ultrasonic Spray Pyrolysis*

Graduate Students (MS)

2018 – 20	Mattea Scanlan	Chemistry Lecturer, Ball State University

Thesis: *Controlling Metal Nanoparticle Morphology through Kinetic Control of Seeded Syntheses*

2015 – 19	Nick Daanen	

Thesis: *Engineering Catalysts and Supports as Platforms for Sustainable Energy*

2014 – 17	Evan Rugen	Battery Innovation Center, Crane, IN

Thesis: *Synthesis and Characterization of $LaTiO_2N$*

2014 – 17	Meredith Hartley Kunz	Teacher, Park Tudor, Indianapolis, IN Adjunct Professor, Ivy Tech Community College

Thesis: *Synthesis of Pd-Cu Nanostructures by Seed-mediated Co-reduction*

2013 – 15	Ethan Harak	MRI Global, Kansas City, KS Adjunct Professor, Rockhurst University Cook Medical (Bloomington, IN)

Thesis: *Core@Shell Rh@Pt Nanocubes: A Model for Studying Compressive Strain Effects in Bimetallic Nanocatalysts*

2008 – 10	Kun Ha Park	Scientist, LG Chem Research Park (S. Korea)

Thesis: *Stabilizing Zinc Oxide in Titania Based Sols for Composite Nanofiber Formation*

Graduate Students (Other)

2011 – 12	William Bowers	R&D Manager, Diamond Wire Materials Technology
2011	Corinne Weinel	Laboratory Coordinator & Instructor, Thomas More University Teacher, Columbus North High School, IN M.Ed. Candidate, Indiana University
2011	Craig Girten	Sciencetician, Patheon, Cincinnati, KY Advanced Testing Laboratory, Cincinnati OH

Visiting Graduate Students

2018 – 20	Yifan Chen	Nanjing Normal University, China
2019	Jette Mathiesen	University of Copenhagen, Denmark
2009 – 10	Susanne Wicker	University of Tuebingen, Germany

Undergraduate Researchers

BS'20, 2019 – 20	Nate Smith	Graduate Student, Pennsylvania State University

Thesis: *Undermining Counterfeit Goods with Designer Au Nanoparticles*

BS'18, 2015 – 18	Connor Bunch	Medical School, Indiana University

Thesis: *Directing Au/Pd Nanocrystal Overgrowth with Organic Thiol Additives*

BS'18, 2015 – 18	Sophie McClain	Graduate Student, University of Illinois

Thesis: *Investigating Routes for the Seeded Synthesis of Multifunctional Multimetallic Nanoparticles*

BS'18, 2017 – 18	Cari Rice	Graduate Student, Italian Studies, NYU

Thesis: *Synthesis of Core@Shell Trimetallic Nanocatalysts*

BS'17, 2014 – 17	Michael Glennon	Indiana University Law School

Thesis: *Structural Characterization and Electrochemical Properties of Ni^{2+}/M^{3+} (M = Al, Ga, Sc, and Fe) Layered Double Hydroxides*

BS'16, 2013 – 16	Samantha Harvey	Graduate Student, Northwestern University

Thesis: *Analysis of the Structural Features and Optical Properties of Au/Pd Bimetallic Nanoparticles*

BA'15, 2012 – 15	Andjela Radmilovic	Graduate Student, University of Wisconsin

Thesis: *Role of Organic Additives in Shaping Symmetrically Branched Bimetallic Nanostructures*

BA'15, 2014 – 15	Connor Moreillon	Pharmaceutical Product Development, Middleton WI
BA'13, 2011 – 14	Matthew Bower	UC-Irvine Medical School

Thesis: *Effect of Ions on Morphology and Growth Kinetics of Branched Bimetallic Nanostructures*

BS'11, 2011 – 12	Aaron Sue	Graduate Student, Northwestern University
BA'12, 2010 – 11	Adam Richter	Graduate Student, University College London
BA'11, 2009 – 10	Rohit Patel	Graduate Student, NEOMED PharmaD Program
BS'09, 2008 – 09	Patrick McChesney	Graduate Student, Indiana University (Physics)

Visiting Undergraduate Researchers

2019	Eunji Kim	Ewha Womans University, S. Korea
2019	Ayanna Culmer-Gilbert	Graduate Student, Indiana University
2018	Minjoo Kim	Ewha Womans University, S. Korea
2018	Sarah Severson	Graduate Student, Cornell University
2017	Yuda Li	Graduate Student, Indiana University
2017	Mattea Scanlan	Graduate Student, Indiana University
2016	Yeon Hyeong Sim	Ewha Womans University, S. Korea
2016	Jingyao Wang	University of Science & Technology, China
2016	Chenhao Ren	University of Science & Technology, China
2016, 2018-19	Joseph Burkhart	Graduate Student, University of British Columbia
2015	Priyanka Arora	IIT Roorkee, India
2014	Cheng Peng	Graduate Student, Iowa State
2013	Huang Lu	Tsinghua University, China
2013	Mariana B. T. Cardosa	Graduate Student, University of Birmingham, UK
2012	Haoming Liu	Tsinghua University, China
2011	Ji Chen	Graduate Student, Tsinghua University, China

2010	Long Sun	Tsinghua University, China