# Sara E. Skrabalak


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## *Education:*

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

## *Appointments:*

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| S. 2024 – | Robert & Marjorie Mann Chair, Department of Chemistry, Indiana University – Bloomington |
| F. 2022 – | Director, NSF Center for Single-Entity Nanochemistry and Nanocrystal Design |
| 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<br>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) |

## *Sabbatical Stays:*

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| S. 2024 | Host Institution: EPFL (Laboratory of Francesco Stellacci), Lausanne, Switzerland |
| S. 2018 | Host Institution: CIC biomaGUNE (Laboratory of Luis Liz-Marzan), San Sebastian, Spain |

## *Editorial Positions:*

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| 2020 - | Editor-in-Chief, ACS Journal *Chemistry of Materials* |
| 2020 - | Editor-in-Chief, ACS Journal *ACS Materials Letters* |
| 2018 - 20 | Associate Editor, RSC Journal *Nanoscale Advances* |
| 2017 - 20 | Associate Editor, RSC Journal *Nanoscale* |

## *Honors and Awards:*

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|---|---|
| 2024 | Robert & Marjorie Mann Chair, Department of Chemistry, Indiana University – Bloomington |
| 2024 - 8 | Mercator Fellow, Collaborative Research Center "Design of Particulate Products" Friedrich-Alexander-Universität Erlangen-Nürnberg |
| 2022 | Distinguished Mentor Award, College of Arts & Sciences, Indiana University - Bloomington |
| 2022 | *Nanoscale Horizons* Award for best 2021 Communication |
| 2021 | Finalist, Blavatnik National Awards for Young Scientists, Blavatnik Family Foundation and New York Academy of Sciences |
| 2021 | Crano Award, Akron Section of the American Chemical Society |
| 2020 | Fellow, American Association for the Advancement of Science |

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| 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<br>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, College of 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:*

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| 2025-2027 | ACS-PRF, "High-throughput Nanoparticle Catalyst Screening for Electrocatalytic Hydrogenation Reactions in Aqueous Media" Total: $125,000 (direct) |
| 2022-2023 | Indiana University – Bloomington, Bridge Funding, "High-Throughput Screening of Single Nanocrystal Properties"<br>PI (Co-PI: Xingchen Ye)<br>Total: $81,743 |
| 2022 | Indiana University – Bloomington, Research Equipment Fund, "Acquisition of a Differential Electrochemical Mass Spectrometer"<br>PI (Co-PI: Xingchen Ye)<br>Total: $76,364 (direct) |
| 2022-2025 | NSF CHE Centers for Chemical Innovation, "CCI Phase 1: NSF Center for Single-Entity Nanochemistry and Nanocrystal Design"<br>PI (Faculty Associates: Lane Baker, Graeme Henkelman, Katherine Willets, Xin Yan, Xingchen Ye)<br>Total: $1.8 million (direct + indirect); Skrabalak portion: $333,643 |
| 2022-2025 | NSF CHE MSN, "Nanocrystal Conversion Pathways for the Synthesis of Multimetallic Nanostructures"<br>Total: $465,000 (direct + indirect) |
| 2022-2024 | Institute for Advanced Study, Indiana University – Bloomington, "Between Materiality and Agency: Upcycling Limestone Waste as an Alternative Building Material"<br>Co-PI (PI: Jeeyea Kim, IU Architecture + Design)<br>Total: $13,000 (direct) – *Returned due to PI's Medical Leave* |
| 2021-2025 | NSF DMR SSMC, "Synthesis of New Intergrowth and Nanostructured Metal Oxyhalide Photocatalysts"<br>Total: $515,148 (direct + indirect)<br>1-year no-cost extension |
| 2019-2022 | NSF CHE MSN, "Strategies toward Hierarchy and Compositional Complexity in Metal Nanocrystal Synthesis"<br>Total: $474,805 (direct + indirect) |

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| 2018-2021 | DOE BES Catalysis Science, "Dynamics and Stain-Engineering of Multimetallic Nanocatalysts"<br>Total: $443,436 (direct + indirect) |
| 2018-2020 | Indiana's Applied Research Institute, Inc., "Achieving Scientifically Secured User Reassurance in Electronics (ASSURE)"<br>Co-PI (PI: Bermel, Purdue University)<br>Total: $2,300,000 (10% overhead); Skrabalak portion: $110,000 |
| 2017-2021 | Research Corporation for Science Advancement, Frontiers in Research Excellence & Discovery (FRED) Award, "Designer Metal Nanostructures for Anti-Counterfeit and Anti-Tamper Applications"<br>Total: $250,000 (direct) |
| 2017 | John Simon Guggenheim Foundation, Fellowship<br>Total: $50,000 (direct) |
| 2017 | Fulbright U.S. Scholar Program<br>Total: ~$12,000 (direct) |
| 2016-2019 | NSF-CHE-MSN, "Symmetry Making and Breaking in the Synthesis and Assembly of Stellated and Bimetallic Nanocrystals"<br>Total: $435,000 (direct + indirect) + $39,889 instrument supplement |
| 2016-2019 | NSF-DMR-SSMC, "Spray Synthesis of Shape-Defined Nanocrystals"<br>Total: $445,000 (direct + indirect) |
| 2015-2017 | NIH-R21-GM, "New Chromatographic Technologies for Resolving Carbohydrate Isomers"<br>Co-Investigator (PI: M. Novotny, Indiana University)<br>Total: $598,800 (direct + indirect); Skrabalak portion: $189,499 (direct + indirect) |
| 2015-2017 | Research Corporation for Science Advancement, Scialog Collaborative Innovation Award, "Light-mediated Strain as an Adaptive Tool toward Efficient Catalysis"<br>Co-PI: Vanessa Huxter (University of Arizona)<br>Total: $100,000 (direct); Skrabalak portion: $20,000 |
| 2014-2019 | Camille Dreyfus Teacher-Scholar Award, "Shaping the Synthesis of Inorganic Solids"<br>Total: $75,000 (direct) |
| 2013-2016 | NSF-CHE-MSN, "Seed-mediated Co-reduction: A Versatile Route to Architecturally Controlled Bimetallic Nanostructures"<br>Total: $405,000 (direct + indirect) |
| 2013-2018 | DOE-BES Early Career Award, "Decoupling the Electronic and Geometric Parameters of Metal Nanocatalysts"<br>Total: $750,000 (direct + indirect) |
| 2013-2015 | Alfred P. Sloan Foundation Research Fellowship<br>Total: $50,000 (direct) |
| 2013 | Indiana University – Bloomington, New Directions Faculty Research Support Program, "Synthesis and Optical Studies of Self-assembling Stellated Polyhedra"<br>Co-PI: Bogdan Dragnea<br>Total: $62,192 (direct); Skrabalak portion: $39,192 (direct) |
| July-Nov. 2012 | Indiana CTSI – Research Invention and Scientific Commercialization (RISC) Program, "Commercial Scale Synthesis of High Surface Area Macroporous Silica for Bioanalytical Chromatography"<br>Total: $24,992 (direct) for Phase I ($5,694) and Phase II ($19,298) research with Irilliant, Inc. |
| 2012 – 2015 | NIH R01-GM, "Sensitive Methods for Glycoconjugate Analysis" 1-year no cost extension<br>Co-Investigator (PI: Milos Novotny-Chemistry, Indiana University)<br>Total: $846,932 (direct + indirect); Skrabalak portion: $145,298 |
| 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<br>Total: $75,000 (direct) |
| 2011 – 2014 | NSF DMR-MRI, "Acquisition of an X-ray Photoelectron Spectrometer for Research and Education" 1-year no cost extension<br>Total: $776,114 (direct + indirect) + University cost share |
| 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<br>Co-PI (PI: David Giedroc-Chemistry, Indiana University)<br>Total: $319,662 (direct + indirect) |

2010 – 2015 NSF-DMR-SSMC CAREER Award, "Advanced Aerosol Synthesis of Metal Oxides for Photocatalytic Applications" 1- year no cost extension
Total: $641,771 (direct + indirect)

2009 – 2011 ACS-PRF, "Electrospray Synthesis of Composite Photocatalysts with Controlled Architectures" Total: $100,000 (direct)

## *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)
Total: $75,000 (direct) – *Returned due to covid-19 pandemic*

2015 – 2018 NSF, "REU Site: Nanoscale Assembly of Molecules and Materials at Indiana University"
Co-PI (PI: Stephen Jacobson, Chemistry, Indiana University)
Total: $270,000 (direct + indirect)

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)
Total: $25,000 (direct)

2011 – 2012 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)
Total: $13,200 (direct)

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)
Total: $2000 (direct)

2010 – 2011 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)
Total: $12,100 (direct)

2010 American Chemical Society, Committee on Local Section Activities, Innovative Projects Grant Program "Chemistry of Everyday Life Seminar Series" (co-organizer Dr. Erin Carlson)
Total: $2500 (direct)

2009 – 2010 Office for Women's Affairs, Indiana University "Women in Chemistry Programming" (co-organizers Dr. Maren Pink and Dr. Erin Carlson)
Total: $9,900 (direct)

## *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

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*

2021 Advanced Photon Source, Argonne National Laboratory, "Probing the Alloying Kinetics of Quinary Metal Nanoparticles by In Situ Total-Scattering"
Beam time allotted.

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.

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| 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"<br>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"<br>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"<br>Microscope time allotted. |
| 2013 SLAC | National Accelerator Laboratory<br>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"<br>Beam time allotted. |

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

(147) Googasian, J. S.; Perkins, M. P.; Chen, J.; Skrabalak, S. E.* "532- and 52-Symmetric Au Helicoids Synthesized Through Controlled Seed Twinning and Aspect Ratio" *Nanoscale,* **2025,** *17,* 4415-4422. DOI: 10.1039/D4NR03731F.

(146) Vernon, K. L.; Pungsrisai, T.; Wahab, O. J.; Alden, S.; Zhong, Y.; Choi, M.-H.; Verma, E.; Bentley, A.; Skrabalak, S. E.; Ye, X.; Willets, K.;* Baker, L. A.* "Optically Transparent Carbon Electrodes for Single Entity Electrochemistry" *ACS Electrochemistry,* **2025,** *1,* 1, 93-102. DOI: 10.1021/acselectrochem.4c00048.

(145) Mathiesen, J. K.;* Ashberry, H. M.; Pokratath, R.; Gamler, J. T. L.; Wang, B.; Kirsch, A.; Kjoer, E. T. S.; Banerjee, S.; Jensen, K. M. O.;* Skrabalak, S. E.* "Why Colloidal Syntheses of Bimetallic Nanoparticles Can't be Generalized" *ACS Nano,* **2024,** *18,* 26937-26947. DOI: 10.1021/acsnano.4c08835.

(144) Gordon, M. N.; Junkers, L. S.; Googasian, J. S.; Mathiesen, J. K.; Zhan, X.; Morgan, D. G.; Jensen, K. M. Ø.; Skrabalak, S. E.* "Insights into the Nucleation and Growth of BiOCl Nanoparticles by *In Situ* X-ray Pair Distribution Functional Analysis and *In Situ* Liquid Cell TEM" *Nanoscale,* **2024,** *16,* 15544-15557. DOI: 10.1039/D4NR01749H.
*Part of the themed collection *Celebrating Professor Geoffrey Ozin's 80th Birthday*

(143) Ibrar, M.; Huang, S.-Y.; McCurtain, Z.; Naha, S.; Crandall, D.; Jacobson, S. C.; Skrabalak, S. E.* "Modular Anti-counterfeit Tags from Template-Assisted Self-Assembly of Plasmonic Nanocrystals Authenticated by Machine Learning" *Advanced Functional Materials,* **2024,** *34,* 2400842. DOI: 10.1002/adfm.202400842.#

(142) Huang, Y.; Wang, S.-H.; Wang, X.; Omidvar, N.; Achenie, L. E. K.; Skrabalak, S. E.; Xin, H.* "Unraveling Reactivity Origin of Oxygen Reduction at High-Entropy Alloy Electrocatalysts with a Computational and Data-Driven Approach" *Journal of Physical Chemistry C,* **2024,** *128,* 11183-11189. DOI: 10.1021/acs.jpcc.4c01630.
*Invited for the Jens K. Norskov Festschfrift

(141) Kar, N.; Huang, C.; Sridhar, S.; Edwards, M.; Ghosh, S.; Nikolov, M.; Paranzino, B.; Yan, X.; Willets, K.; Ye, X.; Skrabalak, S. E.* "Magnifying Minds: Exploring the Concepts of Size and Scale with a Public Mural and Integrated Activities" *Journal of Chemical Education,* **2024,** *101,* 3556-3563. DOI: 10.1021/acs.jchemed.4c00111.

(140) O'Dell, Z. J.; Knobeloch, M.; Skrabalak, S. E.; Willets, K. A.* "High-throughput All-Optical Determination of Nanorod Size and Orientation" *Nano Letters,* **2024,** *24,* 7269-7275. DOI: 10.1021/acs.nanolett.4c01261.

(139) Travesset, A.; Engel, M.; Rabani, E.; Zhou, S.; Ye, X.; Wong, G.; Widmer-Cooper, A.; Vaknin, D.; Tretiak, S.; Tkachenko, A.; Talapin, D.; Tagliazucchi, M.; Smalyukh, I.; Skrabalak, S. E.; Shi, A.-C.; Saiz, L.; Rotskoff, G.; Prezhado, O.; Osat, S.; Nikoubashman, A.; Mognetti, B.; Macfarlane, R.; Van Lehn, R.; Lee, B.; Kraus, T.; Karg, M.; Ibanez, M.; Haji-Akbari, A.; Grunwald, M.; Guerrero-Garcia, G. I. "Nanocrystal Assemblies: Current Advances and Open Problems" *ACS Nano,* **2024,** *18,* 14791-14840. DOI: 10.1021/acsnano.3c10201.

(138) Beena, N. C.; Magnard, N. P. L.; Puggioni, D.; dos Reis, R.; Chatterjee, K.; Zhan, X.; Dravid, V. P.; Rondinelli, J. M.; Jensen, K. M. O.; Skrabalak, S. E.* "Influence of Composition and Structure on the Optoelectronic Properties of Photocatalytic $Bi_4NbO_8Cl$-$Bi_2GdO_4Cl$ Intergrowths" *Inorganic Chemistry,* **2024,** *63,* 8131-8141. DOI: 10.1021/acs.inorgchem.4c00306.


(137) Verma, E.; Choi, M.; Kar, N.; Baker, L. A.; Skrabalak, S. E.* "Bridging Colloidal and Electrochemical Syntheses of Metal Nanocrystals with Seeded Electrodeposition for Tracking Single Nanocrystal Growth" *Nanoscale,* **2024,** *16,* 8002-8012. DOI: 10.1039/D4NR00202D.

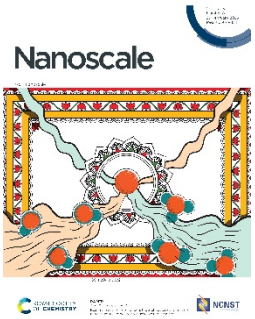
(136) Kar, N.; McCoy, M.; Wolfe, J.; Bueno, S. L. A.; Shafei, I. H.; Skrabalak, S. E.* "Retrosynthetic Design of Core@shell Nanoparticles for Their Thermal Conversion to Monodisperse High Entropy Alloy Nanoparticles" *Nature Synthesis,* **2024,** *3,* 175-184. DOI: 10.1038/s44160-023-00409-0.

(135) Chatterjee, K.; Stanley, J.; Dravid, V. P.; dos Reis, R.*; Skrabalak, S. E.* "Electronic and Nanoscale Structures of Metal Oxyhalide Intergrowth Photocatalysts" *Applied Physics Letters,* **2023,** *123,* 154101. DOI: 10.1063/5.0159761.

(134) Bentley, A. K.; Skrabalak, S. E.* "A Primer on Lattice Planes, Crystal Facets, and Nanoparticle Shape Control" *Journal of Chemical Education,* **2023,** *100,* 3425-3433. DOI: 10.1021/acs.jchemed.3c00371.

- See ***Nanowork*** "Placing nanoparticles in the palm of your hand" https://www.nanowerk.com/nanotechnology-news2/newsid=64169.php and ***Laboratory Equipment*** "Professor develops 'scaled up' way to teach nanoscience" https://www.laboratoryequipment.com/609263-Professor-Develops-Scaled-Up-Way-to-Teach-Nanoscience/ among other news reports.

(133) Gordon, M.; Liu, Y.; Brown, M. K.; Skrabalak, S. E.* "Single-Source Precursors for the Controlled Aqueous Synthesis of Bismuth Oxyhalides" *Inorganic Chemistry,* **2023,** *62,* 9640-9648. DOI: 10.1021/acs.inorgchem.3c01114.




(132) Googasian, J. S.; Skrabalak, S. E.* "Practical Considerations for Simulating the Plasmonic Properties of Metal Nanoparticles" *ACS Physical Chemistry Au,* **2023,** *3,* 252-262. DOI: 10.1021/acsphyschemau.2c00064.

(131) Kar, N.; McCoy, M.; Zhan, X.; Wolfe, J.; Wang, Z.; Skrabalak, S. E.* "Reaction Stoichiometry Directs the Architecture of Trimetallic Nanostructures Produced via Galvanic Replacement" *Nanoscale,* **2023,** *15,* 3749-3756. DOI: 10.1039/D2NR06632G.

*Featured in *Nanoscale* and *Nanoscale Horizon's* Special Collection "Nanoparticle Synthesis"

(130) Woessner, Z. J.; Lewis, G. R.; Bueno, S. L. A.; Ringe, E.;* Skrabalak, S. E.* "Asymmetric Seed Passivation for Regioselective Overgrowth and Formation of Plasmonic Nanobowls" *Nanoscale,* **2022,** *14,* 16918-16928. DOI: 10.1039/D2NR05182F.

(129) Gordon, M.; Chatterjee, K.; Christudas Beena, N.; Skrabalak, S. E.* "Sustainable Production of Layered Bismuth Oxyhalides for Photocatalytic $H_2$ Production" *ACS Sustainable Chemistry & Engineering,* **2022,** *10*, 15622-15641. DOI: 10.1021/acssuschemeng.2c05326.

(128) Bueno, S. L. A.; Leonardi, A.; Kar, N.; Chatterjee, K.; Zhan, X.; Chen, C.; Wang, Z.; Engel, M.; Fung, V.; Skrabalak, S.E.* "Quinary, Senary, and Septenary High Entropy Alloy Nanoparticle Catalysts from Core@Shell Nanoparticles and the Significance of Intraparticle Heterogeneity" *ACS Nano,* **2022,** *16,* 18873-18885. DOI: 10.1021/acsnano.2c07787.

(127) Chatterjee, K.; Magnard, N. P. L.; Mathiesen, J. K.; Jensen, K. M. O.; Skrabalak, S. E.* "Local Structure Analysis and Structure Mining for Design of Photocatalytic Metal Oxychloride Intergrowths" *Journal of Materials Chemistry A,* **2022,** *10,* 23212-23221. DOI: 10.1039/D2TA05663A.

(126) Googasian, J. S.; Lewis, G. R.; Woessner, Z. J.; Ringe, E.;* Skrabalak, S. E.* "Seed-Directed Synthesis of Chiroptically Active Au Nanocrystals of Varied Symmetries" *Chemical Communications* (2022 Pioneering Investigators)*,* **2022,** *58,* 11575-11578. DOI: 10.1039/D2CC04126J.

(125) Chappidi, D.; Gordon, M.; Ashberry, H.; Huang, J.; Labedis, B.; Cooper, R.; Cooper, B.; Carta, V.; Skrabalak, S.; Dunbar, K. R.; Fatila, E.* "Mechanochemical Syntheses of $Ln(hfac)_3H_2O_n$ (Ln = La-Sm, Tb): Isolation of 10-, 9-, and 8-Coordinate $Ln(hfac)_n$ Complexes" *Inorganic Chemistry,* **2022,** *61,* 12197-12206. DOI: 10.1021/acs.inorgchem.2c01274.

(124) Rudman, K. K.; Hosseini, S.; Chatterjee, K.; Johnson, B.; Skrabalak, S. E.* "Sonoelectrosynthesis of Monodisperse Metal Nanoparticles" *Nanoscale,* **2022,** *14,* 6471-6479. DOI: 10.1039/D2NR00167E.

(123) Gordon, M. N.; Liu, Y.; Shafei, I.; Brown, M. K.; Skrabalak, S. E.* "Crystal Structures of three β-halolactic acids: hydrogen bonding resulting in differing *Z'*" *Acta Crystallographica Section C,* **2022,** *78,* 257-264. DOI: 10/1107/S2053229622002856.

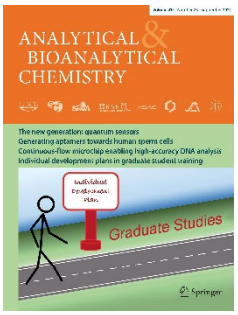
(122) Ashberry, H. M.; Zhan, X.; Skrabalak, S. E.* "Identification of Nanoscale Processes Associated with the Disorder-to-Order Transformation of Carbon-Supported Alloy Nanoparticles" *ACS Materials Au,* **2022,** *2,* 143-153. DOI: 10.1021/acsmaterialsau.1c00063.

(121) Ashberry, H. M.; Chen, C.; Skrabalak, S. E.* "Vertex-Directed and Asymmetric Metal Overgrowth of Intermetallic $Pd_3Pb$@PtNi Nanocubes for the Oxygen Reduction Reaction" *ACS Applied Nano Materials,* **2021,** *4,* 12490-12497. DOI: 10.1021/acsanm.1c03004.

(120) Woessner, Z. J.; Skrabalak, S. E.* "Symmetry-Reduced Metal Nanostructures Offer New Opportunities in Plasmonics and Catalysis" *Journal of Physical Chemistry C* (invited Perspective), **2021,** *125,* 23587-23596. DOI: 10.1021/acs.jpcc.1c07743.

(119) Chatterjee, K.; Skrabalak, S. E.* "Durable Metal Heteroanionic Photocatalysts" *ACS Applied Materials & Interfaces* (invited Perspective), **2021,** *13,* 36670-36678. DOI: 10.1021/acsami.1c09774.

(118) Skrabalak, S. E.* "Symmetry in Seeded Metal Nanocrystal Growth" *Accounts of Materials Research* (invited manuscript, Editor's Choice Manuscript), **2021,** *2,* 621-629. DOI: 10.1021/accountsmr.1c00077.




(117) Flood, A. H.; Skrabalak, S. E.;* Yu, Y. "Individual Development Plans – Experiences Made in Graduate Student Training" *Analytical and Bioanalytical Chemistry* (invited manuscript), **2021,** *413,* 5681-5684. DOI: 10.1007/s00216-021-03540-z.

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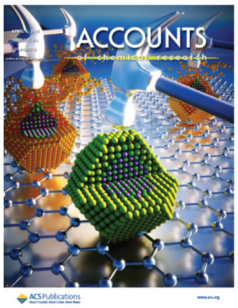


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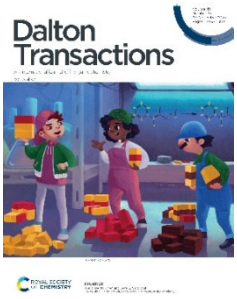


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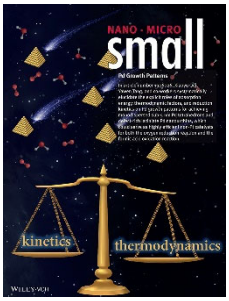


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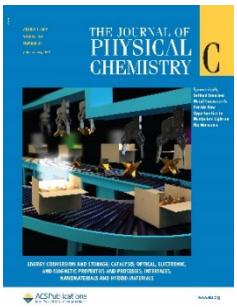


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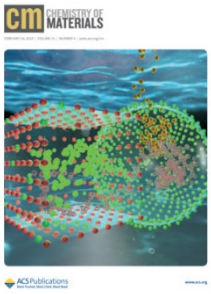


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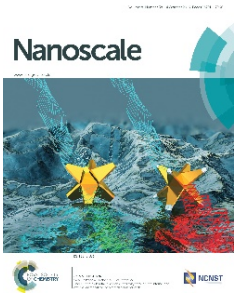


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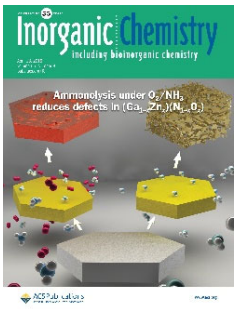


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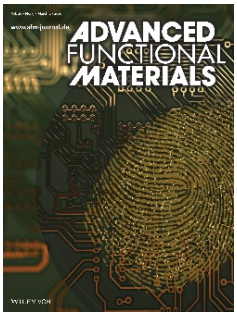


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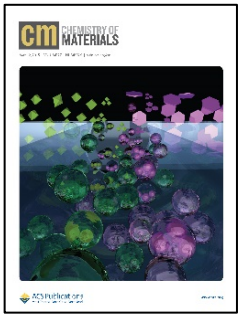


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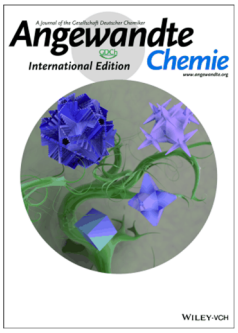


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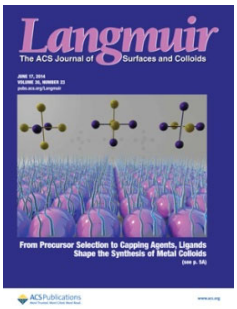


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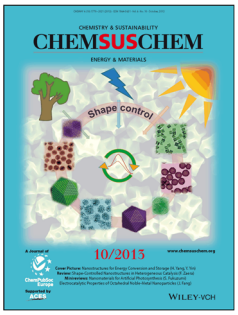


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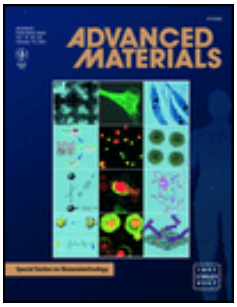


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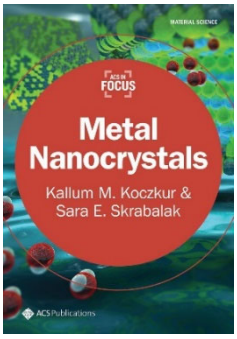


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(12) Toro, C.;* Skrabalak, S. E.* "More than 20,000 Papers Handled – Thank You for Your Service!" *Chemistry of Materials,* **2021,** *33,* 9455-9456. DOI: 10.1021/acs.chemmater.1c03940.

(11) Toro, C.;* Skrabalak, S. E.* "A Timely, Authoritative Introduction to Organic Thin Film Transistors: An Interview with C. Daniel Frisbie for Chemistry of Materials' 1k Club" *Chemistry of Materials,* **2021,** *33,* 8939-8940. DOI: 10.1021/acs.chemmater.1c03967.

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(9) Khashab, N. M.;* Skrabalak, S. E.*; Adler-Abramovich, L.; Bent, S. F.; El-Mellouhi, F.; Kumacheva, E.; Milliron, D. J.; Neu, J.; Shen, Q.; Sicolo, S. "Resilient Women and the Resiliency of Science" *Chemistry of Materials,* **2021,** *33,* 6585-6588. DOI: 10.1021/acs.chemmater.1c02648.

(8) Toro, C.;* Skrabalak, S. E.* "Marking the 20 Year Anniversary of a Seminal Review of Semiconductor Nanoparticle Synthesis: An Interview with Tito Trindade for Chemistry of Materials' 1k Club" *Chemistry of Materials,* **2021,** *33,* 5447-5448. DOI: 10.1021/acs.chemmater.1c02218.

(7) Skrabalak, S. E.* "Writing Effective Review Articles" *Chemistry of Materials,* **2021,** *33,* 3021. DOI: 10.1021/acs.chemmater.1c01382.

(6) Toro, C.;* Skrabalak, S. E.* "Methods & Protocols of 2020" *Chemistry of Materials,* **2021,** *33,* 1509-1512. DOI: 10.1021/acs.chemmater.1c00551.

(5) 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,** *33,* 1507-1508. DOI: 10.1021/acs.chemmater.1c00282.

(4) Skrabalak, S. E.* "ACS Materials Letters Webinar Series" *ACS Materials Letters,* **2021,** *3,* 298. DOI: 10.1021/acsmaterialslett.1c00111.

(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/Editorials:*

(7) Kar, N.; Skrabalak, S. E. "High-entropy alloy nanoparticles through retrosynthetic design" *Nature Synthesis,* **2023,** DOI: 10.1038/s44160-023-00410-7.

(6) Buriak, J. M.; Akinwande, D.; Artzi, N.; Brinker, C. J.; Burrows, C.; Chan, W. C. W.; Chen, C.; Chen, X.; Chi, L.; Chhowalla, M.; Chueh, W.; Crudden, C. M.; Carlo, D. D.; Glotzer, S. C.; Hersam, M. C.; Ho, D.; Hu, T. Y.; Huang, J.; Javey, A.; Kamat, P. V.; Kim, I-D.; Kotov, N. A.; Lee, R. T.; Lee, Y. H.; Li, Y.; Liz-Marzan, L. M.; Mulvaney, P.; Narang, P.; Nordlander, P.; Oklu, R.; Parak, W. J.; Salanne, M.; Samori, P.; Schaak, R. E.; Schanze, K.; Sekitani, T.; Skrabalak, S.; Sood, A. K.; Voets, I. K.; Wang, S.; Wang, S.; Wee, A. T. S.; Ye, J. "Best Practices for Using AI When Writing Scientific Manuscripts. Caution, Care, and Consideration: Creative Science Depends on It" *ACS Nano,* **2023,** 4091-4093.

(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:*

March 2024 from *Goggle Scholar*
h-index = 50
i10-index = 118
Total citations = 20366

March 2024 from *Web of Science*
h-index = 43
average per item: 69.47
Total citations = 15074

## *General Media:*

• Write-up about anticounterfeit tags: https://blogs.iu.edu/iuimpact/2024/04/02/iu-researcher-develops-anticounterfeit-tags-and-environmental-sensors-using-nanoparticles/
• Write up about Nature Synthesis paper: https://www.chem.indiana.edu/2023/10/skrabalak-group-research-published-in-prestigious-nature-synthesis-journal/
• Conversations with The Connected Professor: https://connectedprof.iu.edu/articles/2023-year-end/conversations-with-the-connected-professor.html
• Announcement of Center for Single-Entity Nanochemistry and Nanocrystal Design: https://news.iu.edu/stories/2022/09/iub/releases/19-single-entity-nanochemistry-nanocrystal-design-center.html
• Graduate student Maha Ibrar's research is featured by IU's Vice President for Research: https://twitter.com/i/status/1517126004820615170
• Blavatnik National Award Finalist Announcement: https://www.nyas.org/press-releases/blavatnik-national-awards-for-young-scientists-announces-the-finalists-of-2021/
• Crano Award Lectureship: https://pubs.acs.org/doi/10.1021/cen-09912-awards2
• Featured Guest on the New Chemist Podcast by David Ferguson. https://podcasts.google.com/feed/aHR0cHM6Ly9hbmNob3IuZm0vcy8yZGVkNTM2NC9wb2RjYXN0L3Jzcw/episode/YTRiYTg0NmUtNjQ1My00ZWI4LWIxNmQtOTgyY2I0Y2M0ZDAy?sa=X&ved=0CAUQkfYCahcKEwiggOyshLjxAhUAAAAAHQAAAAAQAQ
• 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:*

**2025** (3 declined partial or fully compensated invited talks)

- Invited Speaker, Joint Undertaking for an African Materials Institute (JUAMI), Addis Ababa, Ethiopia (Dec. 7-19)
- Invited Speaker, 2025 Phi Beta Kappa Induction Ceremony Address, Indiana University (Dec. 9)
- Keynote Speaker, Partec 2025, International Congress on Particle Technology, Nuremberg, Germany (Sept. 23-25)
- Guest Lecturer, Summer School on High Entropy Alloys for Electrocatalysis, Center for High Entropy Alloy Catalysis, Denmark (August 11-14)
- Keynote Lecture, Nanocrystals Northwest, Park Forest Conference Center, Washington (July 23-25)
- Keynote Lecture, Inaugural Applied Materials & Interfaces Conference, Singapore (July 3-4)
- Plenary Speaker, Frontiers in Nanophotonics, The 3rd INanoPhotonic Symposium 2025, Hong Kong Polytechnic University (June 14-15) - *virtual*
- Distinguished Speaker, US Naval Research Laboratory (Feb. 20)
- Invited Speaker, Symposium in Memoria of Dong Qin, ACS Spring National Conference, San Diego (March 23-27)
- Invited Speaker, Award Symposium in Honor of Ray Schaak, ACS Spring National Conference, San Diego (March 23-27)
- Invited Speaker, Symposium on High Entropy and Complex Structure for Electrocatalysis and Other Applications, ACS Spring National Conference, San Diego (March 23-27)
- Invited Panelist, "Publishing and Presentations in the Natural Sciences," *IU's Preparing Future Faculty Conference,* Indiana University (January 24)
- Invited Panelist, "How to Maximize the Impact of International Outreach," *ACS Conference of Editors,* Washington DC (Jan. 8-10)
- Chemistry Department Seminars: Jackson State University (Feb. 7), University of California – Santa Cruz (April 21), Institute of Science and Technology, Austria (May 8)

**2024** (6 declined partial or fully compensated invited talks + 1 plenary due to time constraints)

- Plenary Lecturer, Symposium "Conference on Advances in Catalysis for Energy and Environment", Tata Institute of Fundamental Research, Mumbai, India (Dec. 16-20)
- Invited Panelist, "Editors' Insights for Navigating the Publishing Landscape" at Symposium "Conference on Advances in Catalysis for Energy and Environment", Tata Institute of Fundamental Research, Mumbai, India (Dec. 16-20)
- Distinguished Speaker, Symposium "Molecular Materials and Functions", IIT-Madras, India (Dec. 9-11)
- Invited Speaker, *ACS on Campus*, IISER Tirupati, India (Dec. 12-13)
- Invited Speaker, *ACS on Campus*, IIT Tirupati, India (Dec. 12-13)
- Invited Speaker, Periodic Table Talks for ACS Division of Inorganic Chemistry (Oct. 16) - *virtual*
- O'Keeffe Lecture in Molecular Sciences, Arizona State University (Sept. 27)
- Invited Speaker, ACS Nigeria Virtual Leadership Development Workshop, ACS On Campus – Nigeria (Sept. 5) - *virtual*
- Invited Speaker, Symposium "Functional Metal and Related Oxide Nanomaterials" at MRS-IMRS 2024, Cancun Mexico (Aug. 18-23)
- Invited Speaker, Symposium "Innovative Synthesis, Novel Properties, Theory and Challenges" at MRS-IMRS 2024, Cancun, Mexico (Aug. 18-23)

- Invited Speaker, Symposium on "High Entropy Materials: Fundamentals and Potential Applications" at IMRC 2024, Cancun Mexico (Aug. 18-23)
- Invited Speaker, Scientific Publishing, ACS International Activities Committee-Sponsored Early-Career Development Workshop at ACS Africa Regional Conference on Green and Sustainable Chemistry – May 6 (*virtual*)
- Invited Keynote Speaker, GSSPC Symposium "Nanoparticle Heterogeneity: Realizing Strengths by Embracing the Differences" at Spring ACS Conference, New Orleans, LA
- Invited Speaker, *ACS on Campus, India Roadshow*
    - IIT- Bombay (Feb. 26)
    - Manipal Academy of Higher Education (Feb. 28)
    - NIT Surathkal (Feb. 28)
    - Jawaharlal Nehru Centre for Advanced Scientific Research (March 1)
- Frontiers in Chemistry Lecture, University of Toledo (Feb. 21)
- Invited Speaker, *PREDICT Symposium* (Feb. 23)
- Invited Speaker, *ACS Conference of Editors,* "Growing Editorial Content" (Jan. 10-12)
- Invited Participant, *Data Challenges Discussion,* Materials Research Data Alliance and National Science Foundation (Aug. 6)
- Chemistry Department Seminars: IIT-Bombay (Feb. 26), Jawaharlal Nehru Centre for Advanced Scientific Research, India (Feb. 29), University of Hamburg, Germany (April 30), University of Fribourg, Switzerland (June 5), Laboratory of Materials for Renewable Energy, EPFL-Empa, Switzerland (May 15), University of Geneva (June 18),
- Contributed Speaker, Symposium on "Synthesis, physical properties and applications of advanced nanocrystalline materials" at the European MRS, Strasbourg, France (May 27-31)

**2023** (4 declined partial or fully compensated invited talks due to time constraints)

- Brown and Williamson Lecturer, University of Louisville, Department of Chemistry (Nov. 3)
- Panelist, "Generative AI" for *The Connected Professor,* Indiana University (Oct. 20) See recording here: https://connectedprof.iu.edu/articles/2023-year-end/conversations-with-the-connected-professor.html
- Invited Speaker, 3rd Symposium on Nanoscience and Nanotechnology themed "Nanomaterials to Solve Emerging Problems", Center Universitario de los Altos at Universidad de Guadalajara (Sept. 20-22)
- Invited Speaker, Symposium on "High Entropy Nanomaterials and Emerging Applications" in the Energy & Fuels Division of the American Chemical Society (Aug. 13-17)
- Invited Speaker, Symposium on "Solar-to-fuel Applications of Nanomaterials" for the Colloid & Surface Chemistry Division of the American Chemical Society (Aug. 13-17)
- Invited Speaker, Symposium on "Improving Rigor and Reproducibility of Measurements in Catalysis and Materials Research" for Catalysis Division of the American Chemical Society (Aug. 13-17)
- Invited Speaker, *Materials Innovation for Better Living* Symposium, Westlake University, Hangzhou, China (July 26 – 27)
- Invited Panelist, *Artificial Intelligence & Digitalization – Effect on Research Methods,* Westlake University, Hagzhou, China (July 26 – 27)
- Discussion Leader, Joint Undertaking for an African Materials Institute (JUAMI), Nairobi, Kenya (June 18 – 30, reschedule from 2021)
- Invited Speaker, Midwest Materials Innovation Consortium Meeting, Indiana University (June 8)
- Invited Speaker, ChatGPT Workshop, College of Arts & Sciences, Indiana University (April 24)
- Invited Speaker, Workshop on "Nanoparticle Assemblies: A New Form of Matter with Classical Structure and Quantum Function" at Kavli Institute for Theoretical Physics, University of California Santa Barbara (April 10 – April 28)
- Invited Panelist, ACS on Campus – Peer Review Process, ACS National Spring Meeting, Indianapolis – March 27
- Invited Speaker, Symposium in Honor of Younan Xia for 2023 ACS National Award for Creative Invention for the American Chemical Society (March 26-30)
- Invited Speaker, Symposium on "Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations" for Colloid & Surface Chemistry Division of the American Chemical Society (March 26-30)
- Invited Speaker, Symposium on "Fundamental Interfacial Processes in Electrocatalysis" for the American Chemical Society (March 26-30)
- Invited Speaker, GERA Energy Workshop, APS March Meeting, Las Vegas (March 5)

- Chemistry Department Seminars: University of Illinois – Chicago (Chemical Engineering, Feb. 2), Northern Illinois University (Feb. 1), Florida State University (Jan. 20), University of California – Irvine (MSE, April 6, *virtual*), Bradley University (Nov. 8, *virtual*)

**2022** (11 declined fully compensated invited talks due to time constraints)

- Plenary Speaker, SHIFT Conference, Tenerife, Canary Islands (Oct. 10-14)
- Invited Speaker, Symposium in honor of Amy Prieto, Inorganic Nanoscience Awardee, Division of Inorganic Chemistry (Aug. 21-25)
- Invited Speaker, Symposium on "Nanomaterials Symposium" for Colloid & Surface Chemistry Division of the American Chemical Society (Aug. 21-25)
- Mercator Fellow Lecture, Friedrich-Alexander Universitat Erlangen-Nurnberg, June 29
- Invited Speaker, ACS Conference of Editors 2022 "Building Influence", Session on Using Twitter Effectively (May 18-20)
- Invited Speaker, Symposium on "Well-Defined Materials for Heterogeneous Catalysis: Synthesis, Characterization, and Performance Studies", ACS Spring Meeting, San Diego (March 20-24)
- Invited Speaker, Symposium on "Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations", ACS Spring Meeting, San Diego (March 20-24)
- MilliporeSigma Inorganic Nano-Materials Lectureship, UCLA (Feb. 23)
- Invited Speaker, IUPAC Empowering Diversity in Science Global Breakfast, Hosted by Friedrich-Alexander Universitat Erlangen-Nurnberg (Feb. 16 – *virtual*)
- Plenary Speaker, 5$^{th}$ International Symposium on Nanoparticles, Nanomaterials, and their Applications (ISN2A 2022), Costa de Caparica, Portugal (Jan. 24-27 - *hybrid*)
- Invited Speaker, Editor-in-Chief Webinar Series, Institute of Materials Research and Engineering, Singapore (Feb 16 - *virtual*)
- Chemistry Department Seminars: University of Utah (March 30 - *virtual*), Rochester Institute of Technology (April 19 - *virtual*), Yonsei University (Dec. 5), UNIST (Dec. 6), Seoul National University (Dec. 7), Ewha Womans University (Dec. 9), Colorado School of Mines (Sept. 23), Brown University (Oct. 7)

**2021** (5 declined fully compensated invited talks due to time constraints)

- Invited Speaker, Universal Display Corporation, Dec. 3 – *Virtual*
- Keynote Lecturer, Advanced Materials Congress – Nano, Oct. 26-28, Stockholm, Sweden – *Virtual*
- Keynote Speaker, Accounts of Materials Research 1 Year Celebration – Oct. 15 – *Virtual*
- Invited Speaker, GEOPACK (Geometry & Packing in Material Structure & Biology) – Oct. 13 - *Virtual*
- Invited Speaker, International Online Workshop on Continuous Particle Synthesis and Product Design – Oct. 4-6 – *Virtual*
- Invited panelist, Applying to Graduate School Series, Indiana University – Sept. 16
- Invited Speaker, 22$^{nd}$ American Conference on Crystal Growth and Epitaxy, Aug. 2-4 – *Virtual*
- Keynote Speaker, Symposium on Frontiers in Materials for Technological Applications, CSIR Institute of Minerals & Materials Technology, Bhubaneswar, India, Aug. 2-6 - *Virtual*
- Eminent Scientist Lecture, ACS Northwest Regional Meeting, May 10 – *Virtual*
- Invited Speaker, Crano Memorial Lectures (2), Akron Section of the ACS and University of Akron, April 27 - *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)
- Chemistry Department Seminars: Nanjing University (*Virtual* – April 21), CSIR Institute of Minerals and Materials Technology (*Virtual* – Sept. 1), Gustavus Adolphus College (*Virtual* – Sept. 17), Fort Hays State University (*Virtual* – Nov. 1), Youngstown University (*Virtual* – Nov. 5)

**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)
  Skrabalak, S. E. "Multimetallic Nanomaterials by Design" *Vid. Proc. Adv. Mater.* **2020,** *1*, 2020-0834. DOI: 10.5185/vpoam.2020.0834.
- 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$^2$A 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), 85$^{th}$ 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*

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| Chem C505 | Professional Development Seminar; F. 2019, F. 2020, F. 2021, F. 2022 |
| Chem C500 | Introduction of Research; F. 2019, F. 2020, F. 2021, F. 2022 |
| 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*

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| H202 | Knowledge Production and the University; S. 2025 |
| H241 | The Self-Organizing Planet (Hutton Honors College); F. 2013 |
| Chem 107 | Frontiers of Chemical Research; S. 2009 - 15, S. 2017, S. 2019-25 |
| Chem N800 | Inorganic Chemistry Research Seminar; S. 2009, F. 2010 |

## *Journal Activities:*

*Committee Appointments (ACS)*

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|---|---|
| 2022 – | ACS Publications Ethics Committee |
| 2021 – 2022 | ACS Nanoscience Standards Committee |
| 2021 – 2022 | ACS Material Science Standards Committee |

*Promotional/Service Activities (ACS)*

2024 Invited Speaker, Scientific Publishing, ACS On Campus – Nigeria – Sept. 5 (*virtual*)
2024 Invited Speaker, Scientific Publishing, ACS International Activities Committee-Sponsored Early-Career Development Workshop at ACS Africa Regional Conference on Green and Sustainable Chemistry – May 6 (*virtual*)
2024 ACS on Campus, India Roadshow – Feb. 24-March 1
2024 Organizer and Moderator, *Chemistry of Materials* Best Paper Award Symposium, Spring ACS Conference
2023 Invited Panelist, ACS Global Sales Meeting, Virtual Event – May 16
2023 Meet the Editors Session, ACS National Spring Meeting, Indianapolis – March 28
2023 Invited Panelist, ACS on Campus – Peer Review Process, ACS National Spring Meeting, Indianapolis – March 27
2022 Organizer and Moderator, *Chemistry of Materials* Best Paper Award Symposium, Fall ACS Conference
2021 Invited Speaker, Department of Science & Technology India & ACS Publishing Workshop Series – Oct. 22
2021 Organizer and Moderator, *Chemistry of Materials* Best Paper Award Symposium, Fall ACS Conference
2021 Moderator, *ACS Materials Letters* Webinar
2021 Attendee, *Diversity, Equity, Inclusion, and Respect Course for ACS Leaders, Editors, and Course Facilitators*

*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*
2024 - Member, Editorial Advisory Board for the Taylor & Francis Group journal, *Nano Views*
2023 - Member, Editorial Advisory Board for the ACS journal, *Nano Letters*
2023 - Member, Editorial Advisory Board for the ACS journal, *Precision Chemistry*
2022 - Member, Editorial Advisory Board for the ACS journal, *Accounts of Chemical Research*
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 - 24 Member, Editorial Board Member for Nature-Springer Journal *Discover Applied Sciences* (renamed from *NS Applied Sciences* in 2024) – resigned in 2024 due to conflict of interest
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):*
2025 International Advisory Board, 10th International GOLD Conference, May 11-14 San Sebastian, Spain
2024 Session Chair, Molecular Materials and Functions, IIT- Madras, Dec. 9-11.
2024 Advisor for the ACS Graduate Student Symposium Planning Committee for "Nanoparticle Heterogeneity: Realizing Strengths by Embracing the Differences", ACS Spring 2024 Meeting, New Orleans.

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| 2023 | Advisory Board, 1st Australian Materials Chemistry Conference (AMCC23) |
| 2023 | External Thesis Committee Reviewer, EPFL (Switzerland) |
| 2023 | External Thesis Committee Reviewer, UNSW (Australia) |
| 2023 | Editor-in-Chief Search Committee Member, ACS Publications |
| 2023 | General Committee, #RSCPoster Twitter Conference, Feb. 28-Mar. 1 |
| 2023 | Session Chair, ACS Chemistry of Materials Award Symposium in Honor of Reshef Tenne, National Spring ACS Conference, Indianapolis, IN |
| 2023 | Participant, ACS Conference of Editors, January 4-6 |
| 2022 | Presider, Fall ACS National Meeting, Division of Colloids & Surfaces Symposium |
| 2022 | Reviewer, National Academies of Sciences, Engineering, and Medicine, Report |
| 2022 | Chair, Noble Metal Nanoparticles Gordon Research Conference (reschedule from 2020 covid-19) |
| 2021 | Session Co-Chair, Symposium "*Metal nanoparticle nucleation and growth"* at ACCGE/OMVPE Conference August 2-4 (virtual) |
| 2021 – 24 | Research Member, Lugar Center for Renewable Energy, Indiana University |
| 2021 | International Advisory Committee, SERB-ACS Online Research Poster Competition, ACS-India |
| 2021 | External Thesis Committee Reviewer, EPFL-Sion (Switzerland) |
| 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 – 21 | 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) |

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| 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:*

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|---|---|
| 2025 | Member, Faculty Groups, *Workforce Development and Livelihoods Wellness* and *Energy Security and Resilience,* Office of International Development |
| 2023 | Member, Search Committee for the Associate Vice President and Vice Provost for Research |
| 2021 – | Member, IU Research Twitter Ambassadors, Office of the Vice President for Research |
| 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 – 2024 | 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, 2021 – | 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*

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|---|---|
| 2024 – | Member, Policy Committee |
| 2023 – | Faculty Mentorship Committees (Georgescu) |
| 2022 – | Faculty Mentorship Committee (Gao, ISE) |
| 2021 – 2022 | Junior Faculty Search Committee |
| F2019 – 23 | Director of Graduate Studies |
| F2019 – 22 | Program Director, MS-to-PhD ACS Bridge Program<br>Partner Status 2019-20; Site Status 2020 |
| F2019 – 23 | Member, Policy Committee |
| F2019 – 23 | 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:*

Guggenheim Foundation (2024)
Ho-Am Foundation (ad hoc: 2023)
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, 2022)
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, 2023 CHE)
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** |
|---|---|
| Postdoctoral Scholar (2023 –) | Nilotpal Kapuria |
| Co-advised with Xingchen Ye | |
| Graduate Student (2019 – ) | Nayana Christudas Beena |
| Graduate Student (2019 – ) | Maha Ibrar |
| Graduate Student (S2021 – ) | Etka Verma |
| Graduate Student (2021 – ) | Megan Knobeloch |
| Graduate Student (2021 – ) | Sarah Gorski |
| Graduate Student (2022 – ) | Aditi Aggarwal |
| Graduate Student (2023 – ) | Connor Schulte |
| Graduate Student (2023 – ) | Rukshanthan Selvaraj |
| Graduate Student (2023 –) | Varsha Kumari |
| Co-advised with Alexandru Georgescu | |
| Graduate Student (2023 – ) | Romesh Perera |
| Co-advised with Stephen Jacobson | |
| Graduate Student (2024 – ) | Hrittik Ghosh |
| Graduate Student (2024 – ) | Shubhangi Goyal |
| Undergraduate Student (2021 –) | Max McCoy |
| Undergraduate Student (2021 –) | Emily Ward |
| Undergraduate Student (2023 –) | Claire Fissel |

## *Previous Individuals Supervised in the Skrabalak Laboratory:*

| **Visiting Faculty** | **Name** | **Last Known Position** |
|---|---|---|
| 2022-23 | Dr. Anne Bentley | Associate Professor, Lewis & Clark |
| 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<br>Postdoctoral Scholar, University of Wisconsin<br>Prof. Robert Hamers |
| 2014 – 16 | Dr. Hamed Ataee-Esfahani | Product Specialist, Shimadzu Scientific Instruments<br>Postdoctoral Scholar, Georgetown University<br>Prof. YuYe Tong |
| 2012 – 14 | Dr. Nathan Motl | Huber Engineered Materials, Senior Scientist |
| 2010 – 11 | Dr. Lin Xu | Associate Professor, Nanjing Normal University<br>Postdoctoral Scholar, NTU (Singapore) |
| 2009 – 10 | Dr. Ellen Steinmiller | Associate Professor, University of Dallas |

**Graduate Students (PhD)**

2020 – 24 Dr. Nabojit Kar — Lam Electronics

**Thesis:** *Nanoparticle Conversion Chemistry: A Toolbox for Multimetallic Nanostructures*

2018 – 24 Dr. Jack Googasian — Ballydel Technologies

**Thesis:** *Synthesis, Simulation and Machine Learning Optimization of Chiral Plasmonic Nanocrystal Systems*

2017 – 23 Dr. Matt Gordon — Postdoctoral Fellow, Savannah River National Laboratory

**Thesis:** *Novel Precursors for the Controlled Aqueous Synthesis of Bismuth Oxyhalides*

2018 – 23 Dr. Kaustav Chatterjee — Postdoctoral Fellow, Merck

**Thesis:** *Multimetal Oxychloride Intergrowth Photocatalysts for Solar Energy Harvesting*

2017 – 22 Dr. Zachary Woessner — Scientist, STA Technologies

**Thesis:** *Regioselectivity in Plasmonic Nanoparticle Synthesis*

2017 – 20 Peters, 20 – 22 Dr. Kelly Rudman — Booz Allen Hamilton Consulting<br>Postdoctoral Scholar, John Hopkins University<br>Dr. Shoji Hall

**Thesis:** *Electrosynthesis: From Organic Molecules to Nanoparticles*

2016 – 21 Dr. Hannah Ashberry — Booz Allen Hamilton Consulting<br>National Research Council Research Associateship<br>Naval Research Laboratory<br>Dr. Albert Epshteyn

**Thesis:** *Synthesis of Intermetallic Nanoparticles and Insight into the Disorder-to-Order Phase Transformation*

2016 – 21 Dr. Sandra Atehortua Bueno — Engineer, Intel, Portland, OR<br>Postdoctoral Scholar, Molecular Foundry<br>Dr. Emory Chan

**Thesis:** *Synthesis of Multimetallic Nanoparticles for Electrocatalytic Applications*

2015 – 21 Dr. Alexander Chen — CAS, Columbus, OH<br>Postdoctoral Scholar, EPFL<br>Prof. Raffaela Buonsanti

**Thesis:** *Selective Modification of Nanocrystals*

2016 – 20 Dr. Joshua Smith — Booz Allen Hamilton Consulting<br>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 II, Ultragenyx Pharmaceutical<br>Scientist, Advanced Potash Technology<br>Postdoctoral Scholar, MIT<br>Prof. Allanore

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

2012 – 17 Dr. Jie Fu — Development Editor,<br>Analytical Chemistry/ACS Sensors

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|---|---|---|
| | | 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<br>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<br>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<br>Postdoctoral Scholar, Rice University<br>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<br>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<br>Postdoctoral Scholar, Oak Ridge National Laboratory<br>Dr. Steve Overbury |
| | **Thesis:** *Synthesis of Shape- and Architecturally Controlled Particles with Ultrasonic Spray Pyrolysis* | |

**Graduate Students (MS)**

| | | |
|---|---|---|
| 2018 – 20 Ye, 20 –23 | Yuda Li | Unknown |
| | **Thesis:** *Synthesis of Alloy and Core@Shell PdNi Nanotemplates for Galvanic Replacement* | |
| 2019 – 22 | Ibrahim Shafei | Metals & Additives, LLC |
| | **Thesis:** *Transformation by Transportation: Pathways to High Entropy Alloy Nanoparticles* | |
| 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<br>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<br>Adjunct Professor, Rockhurst University<br>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)**

| | | |
|---|---|---|
| 2020 – 22 | Skylar Wappes | Indiana University, Raff Group |
| 2011 – 12 | William Bowers | R&D Manager, Diamond Wire Materials Technology |
| 2011 | Corinne Weinel | Laboratory Coordinator & Instructor, Thomas More University<br>Teacher, Columbus North High School, IN<br>M.Ed. Candidate, Indiana University |
| 2011 | Craig Girten | Sciencetician, Patheon, Cincinnati, KY<br>Advanced Testing Laboratory, Cincinnati OH |

**Visiting Graduate Students**

| | | |
|---|---|---|
| 2024 | Philipp Ulmen | University of Hamburg |
| 2023 | Hongxiao Xiang | University of Hamburg |
| 2021 – 22 | Youngtae Park | KAIST, South Korea |
| 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'24, 2022 – 24 Max Perkins Indiana University Medical School
**Thesis:** *Synthesis of Multiply Twinned Nanoparticle Seeds for Seed-Mediated Growth of Chiral Nanocrystals*

BS'22, 2020 – 22 Joshua Wolfe Public Health Graduate Program, Emory University
**Thesis:** *Pd-Sn Nanoparticles: Their Controlled Synthesis and Utilization Towards High-Entropy Alloy Nanoparticles*

BS'21, 2019 – 21 Emma Endres Graduate Student, Vanderbilt Chemistry
**Thesis:** *Exploring Nanoparticle Morphologies through Galvanic Replacement and Changing Injection Rates*

BS'21, 2020 – 21 Jared Stanley Graduate Student, UC-Irvine
**Thesis:** *Effect of Synthetic Method on $Bi_2LaO_4Cl$ Morphology and Preparation of the Novel Intergrowth $Bi_4TaO_8Cl$-$Bi_2LaO_4Cl$ for Photocatalytic Water Splitting*

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**

| | | |
|---|---|---|
| 2023 | Chaeeun Ma | Ewha Womans University, S. Korea |
| 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 |

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|---|---|---|
| 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 |