

Song Jin

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Academic Appointments:

9/13 to present Professor, Department of Chemistry, University of Wisconsin-Madison
7/10 to 8/13 Associate Professor, Department of Chemistry, University of Wisconsin-Madison
8/04 to 6/10 Assistant Professor, Department of Chemistry, University of Wisconsin-Madison
1/05 to present Faculty member of Materials Science Program (MSP), UW-Madison

Education:

2002-2004 Postdoctoral Fellow Harvard University, Cambridge, MA. Advisor: Charles M. Lieber
2002 PhD in Chemistry Cornell University, Ithaca, NY. Advisor: Francis J. DiSalvo.
1997 B.S. in Chemistry Peking (Beijing) University, Beijing, China.

Awards and Honors:

ACS Inorganic Nanoscience Award (2014)
H. I. Romnes Faculty Fellowship, U. of Wisconsin-Madison (2013)
Research Corporation SciaLog Collaborative Innovation Award for Solar Energy Conversion (2012)
Vilas Associate Award, U. of Wisconsin-Madison (2012)
Research Corporation Scialog Award for Solar Energy Conversion (2011)
Sloan Research Fellowship (2009)
ACS ExxonMobil Solid State Chemistry Fellowship Award (2008)
Research Corporation Cottrell Scholar Award (2007)
DuPont Young Professor (2007)
MIT Technology Review TR35 Award (Top 35 Young Innovators under the age of 35) (2006)
NSF CAREER Award (2006)
3M Nontenured Faculty Award (2006)
Cornell University Graduate School Travel Grants (2001)
Peking University Student Research Scholarship (1996)
Excellent Student in Honors Science Program (1996)
Outstanding Student Scholarship, Peking University (1995&1994)
Gold Medal in Chinese National Chemistry Olympiad (1992)

Teaching and Educational Outreach:

Courses taught:

- Chemistry of Nanoscale Materials (Chem 630&653) Spring 2017, Spring 2015, Fall 2013, Fall 2011, Spring 2010, Spring 2008, Fall 2005 (*new course*)
- Chemistry of Inorganic Materials (Chem 630) Fall 2008, Fall 2010 (*partially redeveloped course*)
- Fundamentals of Analytical Sciences (Chem 329) Fall 2007, Spring 2007, Fall 2006, Spring 2006, Spring 2011, Spring 2013, Spring 2014, Fall 2015, Spring 2016
- Fundamentals of Analytical Sciences (Chem 327) Fall 2016, Fall 2014, Fall 2012, Fall 2009, Spring 2005, Fall 2004

Curriculum development and educational outreach activities:

- Developed a new graduate course (Chem 630: Chemistry of Nanoscale Materials)

- Developed a web course on nanoscience and nanotechnology for high school teachers in collaboration with Prof. John Moore and graduate student Janice Hall
- Discovering Nanoscience (“Nano BootCamp”) Workshop for high school students (Jan 2008 & Feb 2009)
- Open-house, lab tour, and on-line chats for high school teachers participating in the on-line course for nanoscience and nanotechnology
- Lab tour and interactions with students with disability from Midwest Alliance for Science and Technology (Oct 2006 & Jan 2007)
- Guest lectures on nanoscience and nanomaterials in Chem 104 and Chem 511 (Feb and May 2008)
- Guest lectures to REU students in chemistry and nanoscience (2009-2016)

Public outreach activities:

- Invited to write a perspective on nanoelectronics for Technology Review magazine (September 2006)
- Interacted and interviewed with popular media (McClatchy News Group) to discuss nanomaterials for solar energy (Oct 2008)
- Interacted and provided images for science-as-art exhibit (TINY Art) at Madison airport and Madison science café (2009, 2008)
- Interacted and provided images to national and international magazines, such as *Scientific American*, *New York Times* Syndicate, SEED, Nano, *DeIngenieur* (2008)
- Provided image for the cover of the text book, *The Science and Engineering of Materials*, 6th edition, the SI edition, by Cengage Learning (2010).
- Exhibit on thermal science and thermoelectric energy conversion at the Wisconsin State Fair (2012)
- Exhibits and activities on nanomaterials and crystals at Wisconsin Science Festival (Oct 2014, Oct 2015)
- Participated in the Cool Science Image Art Exhibit at the Mandelbaum & Albert Family Vision Gallery at the Wisconsin Institutes for Medical Research McPherson Eye Research Institute (2014).
- Gave interview with Wisconsin Public Radio about our research work on new earth-abundant catalysts (Sept 2015)

Professional Affiliation and Synergistic Activities:

1. Conference organizers and program committees:
 - US Co-Chair for the 12th Sino-US Nano Forum 2017 in Beijing, China
 - Lead organizer for a symposium on “Materials and Nanostructures for Magnetic Skyrmions” for the 2016 MRS Fall meeting
 - Lead organizer for a symposium on Nanotechnology for Renewable Energy Applications for PacifiChem 2015
 - Lead organizer for a symposium on “Mesoscale Architectures: Synthesis, Assembly, Properties, and Applications” for the 2014 MRS Fall meeting
 - Co-organizer for a symposium on “Materials for Photoelectrochemical and Photocatalytic Energy Harvesting and Storage” for the 2014 MRS Spring meeting
 - Co-organizer for the 1st National Academy of Sciences US-Israel Kavli Frontiers of Science Symposium (June 2013)
 - Lead organizer for a symposium on “Sustainable solar energy conversion using earth-abundant materials” for the 2013 MRS Fall meeting
 - Co-organizer for the symposia on Low-Dimensional Electronic and Photonic Devices at the 216th (2009), 218th (2010), 222nd (2012), 224th (2013), 226th (2014), 228th (2015), 230th (2016), 232th (2017), Electrochemical Society (ECS) Meetings.
 - Organized a symposium on 1-D nanomaterials in 233rd ACS National meeting (2007);
 - Program organizing committee for SPIE Optics East 2007: Nanomaterials Synthesis, Interfacing, and Integrating in Devices, Circuits, and Systems II;
 - Local program committee for 65th Physical Electronic Conference (PEC) in 2005.

2. NSF Materials by Design Workshop (March 2011); DoD Defense Threat Reduction Agency (DTRA) Workshop "Toward a Strategic Vision for Chemical and Biological Defense", Participant and White Paper reviewer, Aug 2008, Atlanta, Georgia.
3. Proposal Reviewers: NSF (DMR & CHE), NSF CAREER, NSF CREST/HBCU-RISE, DOE BES, DOE EERE, DOE ARPA-E, PRF, Research Corporation, Austrian Science Fund, Belgian Science Policy Office (BELSPO), Molecular Foundry of DOE LBNL.
4. On-site scientific reviewer for DOE Joint Center for Energy Storage Research (JCESR) Batteries and Energy Storage Energy Innovation Hub, July 2014.
5. Journal referees: *Science* (6 papers), *Nature* (2), *Nature Materials* (4), *Nature Chemistry* (4), *Nature Nanotechnology*, *Nature Communications* (10), *Nature Photonics* (2), *Nature Physics*, *Nature Energy*, *Proc. Natl. Acad. Sci. (PNAS)* (5), *J. Am. Chem. Soc.* (63), *Nano Lett.* (58), *Chem. Mater.* (21), *J. Phys. Chem.* (25), *ACS Nano* (15), *Inorg. Chem.* (4), *ACS Catalysis*, *Langmuir*(2), *Crys. Growth. Design* (9), *Angew. Chem.*(4); *Adv. Mater.* (5), *Adv. Funct. Mater.*(2), *Small* (6), *Chem. Comm.* (6), *Chemical Sciences*, *Chem. Rev.*, *Chem. Soc. Rev.*, *Acct. Chem. Res.*, *Energy Environ. Sci.* (8); *J. Mater. Chem.*(7), *J. Chem. Phys.*, *Appl. Phys. Lett.* (3), *J. Appl. Phys.*, *Materials Today*, *Nanotechnology* (3), *J. Solid State Chem.*(3), *J. Mater. Res.*, *J. Crys. Growth.*, *J. Electrochem. Soc.*, *Electrochem. Solid-State Lett.*, *J. Nanosci. and Nanotech.*, *Mater. Sci. Eng.*, *Thin Solid Films*, *Solid State Sci.*, *J. Vac. Sci. Tech.*
6. Journal Advisory/Editorial Board: *Nanoscale*.
7. Memberships: American Chemical Society (ACS), Materials Research Society (MRS), The Electrochemical Society (ECS), The American Association for the Advancement of Science (AAAS).

Departmental and University Service:

- Member of Chemistry Department Finance Committee (September 2015 -)
- Member of Materials Science Center Advisory Board (June 2015 -)
- Member of the China Task Force for the Provost (Fall 2014)
- Member of Chemistry Department Faculty Award Committee (2014 -)
- Member of Physical Science Division Committee (September 2013 – May 2016)
- Member of the Campus planning Committee for Wisconsin Energy Institute Phase II (2012)
- Member of the review committee of Department of Geoscience at UW-Madison (Spring 2010)
- Thrust co-leader for proposal to establish a DOE EFRC at UW-Madison (submitted September 2008)
- Faculty member of University of Wisconsin Advanced Materials Industrial Consortium (2005-).
- Material chemistry steering committee (2006- 2013), chair (2006 - August 2011),
- Graduate recruiting committee (Fall 2006-2011, 2012-)
- Instrument Task Force (March 2009 – Nov 2009)
- Faculty search committee (Fall 2005, Fall 2010)
- Graduate Curriculum and Carnegie Initiative Committee (Fall 2004 – Spring 2006)
- Graduate Curriculum Committee (Fall 2008 – 2010, 2012-)
- Web committee (Fall 2004 - Spring 2005)
- Represented the department at 36th Annual Black Chemists & Chemical Engineers (NOBCChE) Conference in St. Louis to promote the recruitment of minority students (April 2009)

Publications:

at UW-Madison

152. Cai, W.; Tucholski, T.; Chen, B.; Alpert, A. J.; McIlwain, S.; Kohmoto, T.; Jin, S.; Ge, Y., Top-Down Proteomics of Large Proteins up to 223 kDa Enabled by Serial Size Exclusion Chromatography Strategy. *Anal. Chem.* **2017**, ASAP. DOI:10.1021/acs.analchem.1027b00380.
151. Chen, B.; Hwang, L.; Ochowicz, W.; Lin, Z.; Guardado-Alvarez, T. M.; Cai, W.; Xiu, L.; Dani, K.; Colah, C.; Jin, S.; Ge, Y., Coupling Functionalized Cobalt Ferrite Nanoparticle Enrichment with Online LC/MS/MS for Top-Down Phosphoproteomics. *Chem. Sci.* **2017**, ASAP. DOI: 10.1039/C6SC05435H.

150. Ding, Q.; Czech, K. J.; Zhao, Y.; Zhai, J.; Hamers, R. J.; Wright, J. C.; Jin, S.; Basal Plane Ligand Functionalization on Semiconducting 2H-MoS₂ Monolayers. *ACS Appl. Mater. Interface* **2017**, *9*, 12734–12742. DOI: 10.1021/acsami.7b01262.
149. Yin, Y.; Miao, P.; Zhang, Y.; Han, J.; Zhang, X.; Gong, Y.; Gu, L.; Xu, C.; Yao, T.; Xu, P.; Wang, Y.; Song, B.; Jin, S., Significantly Increased Raman Enhancement on MoX₂ (X = S, Se) Monolayers Upon Phase Transition. *Adv. Funct. Mater.* **2017**, *27*, 1606694. DOI: 10.1002/adfm.201606694
148. Liu, W.; Liu, H.; Dang, L.; Zhang, H.; Wu, X.; Yang, B.; Li, Z.; Zhang, X.; Lei, L.; Jin, S., Amorphous Cobalt–Iron Hydroxide Nanosheet Electrocatalyst for Efficient Electrochemical and Photo-Electrochemical Oxygen Evolution. *Adv. Funct. Mater.* **2017**, *27*, 1603904. DOI: 10.1002/adfm.201603904
147. Shearer, M. J.; Samad, L.; Zhang, Y.; Zhao, Y.; Puzos, A. A.; Eliceiri, K. W.; Wright, J. C.; Hamers, R. J.; Jin, S., Complex and Noncentrosymmetric Stacking of Layered Metal Dichalcogenide Materials Created by Screw Dislocations. *J. Am. Chem. Soc.* **2017**, *139*, 3496–3504. DOI: 10.1021/jacs.6b12559.
146. Stolt, M. J.; Li, Z.-A.; Phillips, B.; Song, D.; Mathur, N.; Dunin-Borkowski, R. E.; Jin, S., Selective Chemical Vapor Deposition Growth of Cubic FeGe Nanowires That Support Stabilized Magnetic Skyrmions. *Nano Letters* **2017**, *17*, 508-514. DOI: 10.1021/acs.nanolett.6b04548.
145. Chen, J.; Fu, Y.; Samad, L.; Dang, L.; Zhao, Y.; Shen, S.; Guo, L.; Jin, S.; Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I), *Nano Letters* **2017**, *17*, 460-466. DOI: 10.1021/acs.nanolett.6b04450.
144. Manger, L. H.; Rowley, M. B.; Fu, Y.; Foote, A. K.; Rea, M. T.; Wood, S. L.; Jin, S.; Wright, J. C.; Goldsmith, R. H. Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways, *J. Phys. Chem. C*, **2017**, *121*, 1062-1071. DOI: 10.1021/acs.jpcc.6b11547
143. Ma, D.; Fu, Y.; Dang, L.; Zhai, J.; Guzei, I. A.; Jin, S.; Single-Crystal Microplates of Two-Dimensional Organic-Inorganic Lead Halide Layered Perovskites for Optoelectronics, *Nano Res.* **2017**, ASAP. DOI: 10.1007/s12274-016-1401-6.
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142. Ding, Q.; Song, B.; Xu, P.; Jin, S.; Efficient Electrocatalytic and Photoelectrochemical Hydrogen Generation Using MoS₂ and Related Compounds, *Chem* **2016**, *1*, 699-726. DOI: <http://dx.doi.org/10.1016/j.chempr.2016.10.007>.
141. Dai, J.; Fu, Y.; Manger, L. H.; Rea, M. T.; Hwang, L.; Goldsmith, R. H.; Jin, S. Carrier Decay Properties of Mixed Cation Formamidinium-Methylammonium Lead Iodide Perovskite [HC(NH₂)₂]_{1-x}[CH₃NH₃]_xPbI₃ Nanorods, *J. Phys. Chem. Lett.* **2016**, *7*, 5036-5043. DOI:10.1021/acs.jpcl.6b01958.
140. Xiao, R.; Hou, Y.; Fu, Y.; Peng, X.; Wang, Q.; Gonzalez, E.; Jin, S.; Yu, D.; Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures, *Nano Letters* **2016**, *16*, 7710–7717. DOI: 10.1021/acs.nanolett.6b03782. (Both Jin and Yu are corresponding authors for this collaborative paper)
139. Zhu, H.; Tuan Trinh, M.; Wang, J.; Fu, Y.; Joshi, P. P.; Miyata, K.; Jin, S.; Zhu, X.-Y.; Organic Cations Might Not be Essential to the Remarkable Properties of Band Edge Carriers in Lead Halide Perovskites, *Adv. Mater.* **2017**, *29*, 1603072. DOI: 10.1002/adma.201603072.
138. Zhu, H.; Miyata, K.; Fu, Y.; Wang, J.; Joshi, P. P.; Niesner, D.; Williams, K. W.; Jin, S.; Zhu, X.-Y.; Screening in crystalline liquids protects energetic carriers in hybrid perovskites, *Science* **2016**, *353*, 1409-1413. DOI: 10.1126/science.aaf9570.
137. Li, W.; Fu, H.-C.; Li, L.; Cabán-Acevedo, M.; He, J.-H.; Jin, S.; “Integrated Photoelectrochemical Solar Energy Conversion and Organic Redox Flow Battery Devices” *Angew. Chem. Intl. Ed.* **2016**, *55*, 13104-13108. DOI: 10.1002/anie.201606986.

136. Zhang, H.; Ding, Q.; He, D.; Liu, H.; Liu, W.; Li, Z.; Yang, B.; Zhang, X.; Lei L.; Jin, S.; p-Si/NiCoSex Core/Shell Nanopillar Array Photocathode for Enhanced Photoelectrochemical Hydrogen Production; *Energy Environ. Sci.* **2016**, *9*, 3113-3119. DOI: 10.1039/C6EE02215D.
135. Tanrikulu, I. C.; Forticaux, A.; Jin, S.; Raines, R. T.; Peptide Tessellation Yields Micrometre-Scale Collagen Triple Helices. *Nature Chemistry* **2016**, *8*, 1008-1014. DOI: 10.1038/nchem.2556.
134. Fu, Y.; Zhu, H.; Stoumpos, C. C.; Ding, Q.; Wang, J.; Kanatzidis, M. G.; Zhu, X.; Jin, S.; Broad Wavelength Tunable Robust Lasing from Single-Crystal Nanowires of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I). *ACS Nano* **2016**, *10*, 7963–7972. DOI: 10.1021/acsnano.6b03916.
133. Samad, L.; Bladow, S. M.; Ding, Q.; Zhuo, J.; Jacobberger, R. M.; Arnold, M. S.; Jin, S.; Layer-Controlled Chemical Vapor Deposition Growth of MoS₂ Vertical Heterostructures via van der Waals Epitaxy. *ACS Nano* **2016**, *10*, 7039-7046. DOI: 10.1021/acsnano.6b03112.
132. Liang, D.;[†] Peng, Y.;[†] Fu, Y.; Shearer, M. J.; Zhang, J.; Zhai, J.; Zhang, Y.; Andrew, T. L.; Jin, S. Color-Pure Violet Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates, *ACS Nano* **2016**, *10*, 6897-6904. DOI: 10.1021/acsnano.6b02683. ([†] equally contributing first authors. Both Andrew and Jin are corresponding authors for this collaborative paper).
131. Yin, Y.; Han, J.; Zhang, Y.; Zhang, X.; Xu, P.; Yuan, Q.; Samad, L.; Wang, X.; Wang, Y.; Zhang, Z.; Zhang, P.; Cao, X.; Song, B.; Jin, S.; Contributions of Phase, Sulfur Vacancies, and Edges to the Hydrogen Evolution Reaction Catalytic Activity of Porous Molybdenum Disulfide Nanosheets. *J. Am. Chem. Soc.* **2016**, *138*, 7965-7972. DOI: 10.1021/jacs.6b03714.
130. Wei, W.; Samad, L.; Choi, J.; Joo, Y.; Way, A.; Arnold, M. S.; Jin, S.; Gopalan, P.; Synthesis of Molybdenum Disulfide Nanowire Arrays Using a Block Copolymer Template *Chem. Mater.* **2016**, *28*, 4017-4023. DOI: 10.1021/acs.chemmater.6b01453.
129. Hwang, L.; Guardado-Alvarez, T. M.; Ayaz-Guner, S.; Ge, Y.; Jin, S.; A Family of Photolabile Nitroveratryl-Based Surfactants That Self-Assemble into Photodegradable Supramolecular Structures *Langmuir* **2016**, *32*, 3963-3969. DOI: 10.1021/acs.langmuir.6b00658.
128. Li, L.; Jacobs, R.; Gao, P.; Gan, L.; Wang, F.; Morgan, D.; Jin, S. Origins of Large Voltage Hysteresis in High Energy-Density Metal Fluoride Lithium-Ion Battery Conversion Electrodes, *J. Am. Chem. Soc.* **2016**, *138*, 2838-2848. DOI: 10.1021/jacs.6b00061.
127. Fu, Y.;[†] Zhu, H.;[†] Schrader, A. W.; Liang, D.; Ding, Q.; Joshi, P.; Hwang, L.; Zhu, X.-Y.; Jin, S. Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability, *Nano Letters* **2016**, *16*, 1000-1008. DOI: 10.1021/acs.nanolett.5b04053. ([†] equally contributing first authors. Both Jin and Zhu are corresponding authors for this collaborative paper).
126. Liang, D., Stolt, M. J., Jin, S., Metastable Skyrmions: Beat the Heat, *Nature Phys.* **2016**, *12*, 25-26. DOI:10.1038/nphys3547. Invited *News and Views* Article.

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125. Chen, J.; Dang, L.; Liang, H.; Bi, W.; Gerken, J. B.; Jin, S.; Alp, E. E.; Stahl, S. S.; Operando Analysis of NiFe- and Fe-Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe⁺⁴ by Mössbauer Spectroscopy. *J. Am. Chem. Soc.* **2015**, *137*, 15090–15093. DOI: 10.1021/jacs.5b10699.
124. Czech, K. J.; Thompson, B. J.; Kain, S.; Ding, Q.; Shearer, M. J.; Hamers, R. J.; Jin, S.; Wright, J. C.; “Measurement of Ultrafast Excitonic Dynamics of Few-Layer MoS₂ Using State-Selective Coherent Multidimensional Spectroscopy” *ACS Nano* **2015**, *9*, 12146–12157. DOI: 10.1021/acsnano.5b05198.
123. Ren, R.; Faber, M. S.; Dzedzic, R.; Wen, Z.; Jin, S.; Mao, S.; Chen, J.; “Metallic CoS₂ Nanowire Electrodes for High Cycling Performance Supercapacitors” *Nanotechnology* **2015**, *26*, 494001. <http://dx.doi.org/10.1088/0957-4484/26/49/494001>

122. Liang, D.; DeGrave, J. P.; Stolt, M. J.; Tokura, Y.; Jin, S.; “Current-Driven Dynamics of Skyrmions Stabilized in MnSi Nanowires Revealed by Topological Hall Effect”, *Nature Commun.* **2015**, *6*, 8217. DOI: 10.1038/ncomms9217.
121. Pokhrel, A.; Samad, L.; Meng, F.; Jin, S.; “Synthesis and Characterization of Barium Silicide (BaSi_2) Nanowire Arrays for Potential Solar Applications”, *Nanoscale* **2015**, *7*, 17450 - 17456. DOI: 10.1039/C5NR03668B.
120. Ding, Q.; Zhai, J.; Cabán-Acevedo, M.; Shearer, M. J.; Li, L.; Chang, H.-C.; Tsai, M.-L.; Ma, D.; Zhang, X.; Hamers, R. J.; He, J.-H.; Jin, S.; “Designing Efficient Solar-Driven Hydrogen Evolution Photocathodes Using Semi-Transparent MoQ_xCl_y ($Q=\text{S, Se}$) Catalysts on Si Micropyramids” *Adv. Mater.* **2015**, *27*, 6511–6518. DOI: 10.1002/adma.201501884.
119. Zhuo, J.; Cabán-Acevedo, M.; Liang, H.; Samad, L.; Ding, Q.; Fu, Y.; Li, M.; Jin, S.; “High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructure” *ACS Catal.* **2015**, *5*, 6355–6361. DOI: 10.1021/acscatal.5b01657.
118. Cabán-Acevedo, M.; Stone, M. L.; Schmidt, J. R.; Thomas, J. G.; Ding, Q.; Chang, H.-C.; Tsai, M.-L.; He, J.-H.; Jin, S.; “Efficient Hydrogen Evolution Catalysis Using Ternary Pyrite-Type Cobalt Phosphosulphide” *Nature Materials* **2015**, *14*, 1245-1251. DOI:10.1038/nmat4410.
117. Liang, H.; Li, L.; Meng, F.; Dang, L.; Zhou, J.; Forticaux, A.; Wang, Z.; Jin, S.; “Porous Two-Dimensional Nanosheets Converted from Layered Double Hydroxides and Their Applications in Electrocatalytic Water Splitting” *Chem. Mater.* **2015**, *27*, 5702-5711. DOI:10.1021/acs.chemmater.5b02177.
116. Mehlin, A.; Xue, F.; Liang, D.; Du, H.; Stolt, M. J.; Jin, S.; Tian, M.; Poggio, M.; “Stabilized Skyrmion Phase Detected in MnSi Nanowires by Dynamic Cantilever Magnetometry” *Nano Lett.* **2015**, *15*, 4839-4844. DOI: 10.1021/acs.nanolett.5b02232.
115. Du, H.; Liang, D.; Jin, C.; Kong, L.; Stolt, M. J.; Ning, W.; Yang J.; Xing, Y.; Wang, J.; Che, R.; Zang, J.; Jin, S.; Zhang, Y.; Tian, M.; “Electrical Probing of Field-Driven Cascading Quantized Transitions of Skyrmion Cluster States in MnSi Nanowires”, *Nature Commun.* **2015**, *6*, 7637. DOI: 10.1038/ncomms8637.
114. Li, L.; Chen-Wiegart, Y.-c. K.; Wang, J.; Gao, P.; Ding, Q.; Yu, Y.-S.; Wang, F.; Cabana, J.; Wang, J.; Jin, S. “Visualization of Electrochemically Driven Solid-State Phase Transformations Using Operando Hard X-ray Spectro-Imaging”, *Nature Commun.* **2015**, *6*, 6883. DOI:10.1038/ncomms7883.
113. Chen, X.; Weathers, A.; Carrete, J.; Mukhopadhyay, S.; Delaire, O.; Stewart, D. A.; Mingo, N.; Girard, S. N.; Ma, J.; Abernathy, D. L.; Yan, J.; Sheshka, R.; Sellan, D. P.; Meng, F.; Jin, S.; Zhou, J.; Shi, L. “Twisting Phonons in Complex Crystals with Quasi-one-dimensional Substructures”, *Nature Commun.* **2015**, *6*, 6723. DOI:10.1038/ncomms7723.
112. Zhu, H.;[†] Fu, Y.;[‡] Meng, F.; Wu, X.; Gong, Z.; Ding, Q.; Gustafsson, M. V.; Trinh, M. T.; Jin, S.; Zhu, X.-Y. Lead Halide Perovskite Nanowire Lasers with Low Lasing Thresholds and High Quality Factors, *Nature Materials* **2015**, *14*, 636-642. DOI:10.1038/nmat4271. ([†] equally contributing first authors. Both Jin and Zhu are corresponding authors for this collaborative paper).
111. Fu, Y.; Meng, F.; Rowley, M. B.; Thompson, B. J.; Shearer, M. J.; Ma, D.; Hamers, R. J.; Wright, J. C.; Jin, S. “Solution Growth of Single Crystal Methylammonium Lead Halide Perovskite Nanostructures for Optoelectronic and Photovoltaic Applications” *J. Am. Chem. Soc.* **2015**, *137*, 5810-5818. DOI: 10.1021/jacs.5b02651.
110. Forticaux, A.; Dang, L.; Liang, H.; Jin, S.; “Controlled Synthesis of Layered Double Hydroxide Nanoplates Driven by Screw Dislocations” *Nano Lett.* **2015**, *15*, 3403-3409. DOI: 10.1021/acs.nanolett.5b00758.

109. Samad, L.; Cabán-Acevedo, M.; Shearer, M. J.; Park, K.; Hamers, R. J.; Jin, S.; “Direct Chemical Vapor Deposition Synthesis of Phase-Pure Iron Pyrite (FeS₂) Thin Films” *Chem. Mater.* **2015**, *27*, 3108–3114. DOI: 10.1021/acs.chemmater.5b00664.
108. Valeja, S. G.; Xiu, L.; Gregorich, Z. R.; Guner, H.; Jin, S.; Ge, Y.; “Three Dimensional Liquid Chromatography Coupling IEC/HIC/IPC for Effective Protein Separation in Top-Down Proteomics” *Anal. Chem.*, **2015**, *87*, 5363–5371. DOI: 10.1021/acs.analchem.5b00657.
107. Hwang, L.; Ayaz-Guner, S.; Gregorich, Z. R.; Cai, W.; Valeja, S. G.; Jin, S.; Ge, Y.; “Specific Enrichment of Phosphoproteins Using Functionalized Multivalent Nanoparticles” *J. Am. Chem. Soc.* **2015**, *137*, 2432–2435. DOI: 10.1021/ja511833y.
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105. Zhang, X.; Meng, F.; Mao, S.; Ding, Q.; Shearer, M. J.; Faber, M. S.; Chen, J.; Hamers, R. J.; Jin, S.; “Amorphous MoS_xCl_y Electrocatalyst Supported by Vertical Graphene for Efficient Electrochemical and Photoelectrochemical Hydrogen Generation” *Energy Environ. Sci.*, **2015**, *8*, 862–868. DOI: 10.1039/C4EE03240C.

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104. Cabán-Acevedo, M.; Kaiser, N. S.; English, C. R.; Liang, D.; Thompson, B. J.; Chen, H.-E.; Czech, K. J.; Wright, J.C.; Hamers, R. J.; Jin, S.; “Ionization of High-Density Deep Donor Defect States Explains the Low Photovoltage of Iron Pyrite Single Crystals” *J. Am. Chem. Soc.* **2014**, *136*, 17163–17179. DOI: 10.1021/ja509142w.
103. Liang, D.; Cabán-Acevedo, M.; Kaiser, N. S.; Jin, S.; “Gated Hall Effect of Nanoplate Devices Reveals Surface-State-Induced Surface Inversion in Iron Pyrite Semiconductor” *Nano Lett.* **2014**, *14*, 6754–6760. DOI: 10.1021/nl501942w.
102. Faber, M. S.; Lukowski, M. A.; Ding, Q.; Kaiser, N. S.; Jin, S.; “Earth-Abundant Metal Pyrites (FeS₂, CoS₂, NiS₂, and Their Alloys) for Highly Efficient Hydrogen Evolution and Polysulfide Reduction Electrocatalysis” *J. Phys. Chem. C* **2014**, *118*, 21347–21356. DOI: 10.1021/jp506288w.
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2. Meng, F.; Morin, S. A.; Jin, S.; "Growth of Nanomaterials by Screw Dislocation" in "Springer Handbook of Nanomaterials" Edited by R. Vajtai, Springer-Verlag: Berlin Heidelberg 2013. DOI 10.1007/978-3-642-20598-8_17.
3. Pokhrel, A.; DeGrave, J. P.; Liang, D.; Higgins, J. M.; Jin, S.; "Growth of Metal Silicide Nanowires and Their Spintronic and Renewable Energy Applications " edited by W. Lu and J. Xiang, Royal Society of Chemistry (RSC), Cambridge, UK, 2015, Print ISBN: 978-1-84973-815-6; EPUB eISBN: 978-1-78262-344-1; DOI:10.1039/9781782625209-00312.

Conference Proceedings:

1. Morin, S. A.; Amos, F. F.; Jin, S., Biomimetic assembly of zinc oxide microarrays on flexible polycarbonate film. *PMSE Preprints* **2007**, 96, 227-228.

2. Amos, F. F.; Morin, S. A.; Jin, S., Directed nucleation and growth of cadmium-sulfide on photo-oxidized poly(ethylene terephthalate) and their device applications. *PMSE Preprints* **2007**, *96*, 176-177.
3. Jin, S.; Schmitt, A. L.; Zhu, L.; Song, Y.; Szczech, J. R. "Synthesis, Characterization and Physical Properties of Transition Metal Silicide Nanowires" *Proc. SPIE* **2006**, 6370, 63700O, 1-10.

Patents:

6. Jin, S.; Dong, Y.; Slade, T.; "Low Temperature Electrochemical Production of Silicon" *US Patent filed on April 11, 2017.*
5. Jin, S.; Fu, Y.; Meng, F.; "Solution Growth of Single-Crystal Perovskite Structures" *US Patent 14/954442 filed on Nov 30, 2015.*
4. Jin, S.; Cabán-Acevedo, M.; Stone, M. L.; "High Performance Earth-Abundant Electrocatalyst for Hydrogen Evolution Reaction and Other Reactions Based on Ternary Pyrite-Phase Cobalt Phosphosulfide and Related Compounds" *Provisional Patent 62/203811 filed August 11, 2015. Patent filed August 10, 2016.*
3. Jin, S.; Ge, Y.; Nelson, C. A.; Xu, Q. "Mesoporous metal oxide materials for phosphoproteomics" *US Patent 8,507,287, issued August 2013.*
2. Jin, S.; Schmitt, A. L.; Song, Y. "Metal silicide nanowires and methods for their production" *US Patent 7803707B2, issued September 2010; US20100279115A1 (Nov 2010); US8395265B2 (March 2013). (Licensed to Intel Corp. 2012)*
1. Whang, D.; Jin, S.; Wu, Y.; McAlpine, M. C.; Friedmann, R. S. Lieber, C. M.; "Nanoscale arrays, robust nanostructures, and related devices" *US Patent 10/995,075, issued Nov 2005.*

Invited or Plenary Presentations: (planned future presentations in italics)

2017

October	<i>232th ECS Meeting</i>	<i>National Harbor, MD</i>
August	<i>24th Congress for International Commission for Optics (ICO-24)</i>	<i>Tokyo, Japan</i>
August	<i>254th ACS National Meeting</i>	<i>Washington DC</i>
April	<i>253th ACS National Meeting</i>	<i>San Francisco, CA</i>
March	<i>International Battery Seminar and Exhibit 2017</i>	<i>Fort Lauderdale, FL</i>
Feb	<i>University of New Hampshire</i>	<i>Durham, NH</i>

2016

December	Materials Research Society (MRS) Fall meeting	Boston, MA
November	Multidisciplinary Workshop on Low Dimen. Semiconductor Nanostructures	Changsha, China
September	Energy and Sustainable Materials Workshop	Eugene, OR
September	Northern Illinois University	DeKalb, IL
August	252 th ACS National Meeting	Philadelphia, PA
August	Perovskite Solar Cell Workshop	Lincoln, NE
July	Gordon Research Conference on Solar Energy Conversion	Hong Kong, China
July	APAC Silicide 2016	Kyushu, Japan
June	CIMTEC 2016	Perugia, Italy
March	Materials Research Society (MRS) Spring meeting	Phoenix, AZ
Jan	2016 Institute of Materials Chemistry and Engineering International Symposium	Kyushu, Japan

2015

December	Materials Research Society (MRS) Fall meeting	Boston, MA
November	Boston College	Chestnut Hills, MA

November	International Workshop on Nanomaterials for Energy and Biotechnology	Harbin, China
October	228 th ECS meeting	Phoenix, AZ
June	10 th Sino-US Nano Forum	Wuhan, China
June	Harbin Institute of Technology	Harbin, China
March	249 th ACS National Meeting	Denver, CO
March	California Institute of Technology	Pasadena, CA
March	University of Arkansas	Fayetteville, AR
Jan	Emory University	Atlanta, GA

2014

December	Materials Research Society (MRS) Fall meeting	Boston, MA
October	Michigan State University	East Lansing, MI
October	226 th ECS Meeting	Cancun, Mexico
August	248 th ACS National Meeting Nanoscience Award Symposium	San Francisco, CA
April	11 th Annual Conference on Foundation for Nanoscience (FNANO)	Snowbird, UT
March	247 th ACS National Meeting	Dallas, TX
Feb	2014 TMS (The Minerals, Metals & Materials Society) Annual Meeting	San Diego, CA
Jan	Columbia University	New York, New York

2013

October	University of Chicago	Chicago, IL
September	246 th ACS National Meeting	Indianapolis, IN
September	ChinaNano 2013	Beijing, China
June	8 th Sino-US Nano Forum	Hangzhou, China
May	Next Generation Solar 2013 – Photovoltaics Canada	Hamilton, Canada
April	245 th ACS National Meeting	New Orleans, LA
Jan	University of Michigan	Ann Arbor, MI

2012

November	Materials Research Society (MRS) Fall meeting	Boston, MA
November	8 th Annual Minnesota Nanotechnology Workshop	Minneapolis, MN
Oct	University of Washington-Seattle	Seattle, WA
Oct	15 th National Academy of Sciences US-China Kalvi Symposium (Invited Poster)	Irvine, CA
Oct	222 nd ECS Meeting and PRiME	Honolulu, HI
Sept	U. of California-Berkeley	Berkeley, CA
June	Institute of Process Engineering, Chinese Academy of Sciences	Beijing, China
June	Peking University	Beijing, China
June	National Chiao-Tung University	Hsinchu, Taiwan
June	National Tsing-Hua University	Hsinchu, Taiwan
June	7 th Sino-US Nano Forum	Xiamen, China
May	University of Buffalo 30 th Graduate Student Symposium Keynote Speaker	Buffalo, NY
March	243 th ACS National Meeting	San Diego, CA
March	University of California-Los Angeles	Los Angeles, CA

2011

December	ETH Zurich	Zurich, Switzerland
November	Materials Research Society (MRS) Fall meeting	Boston, MA
Oct	Research Corporation Scialog® Conference	Tucson, AZ
July	Nanyang Technological University	Singapore
June	International Conference on Materials and Technology (ICMAT) 2011	Singapore

June	Nanowires 11	Lesvos, Greece
June	Emerging Opportunities in Nanostructured Semiconductors (EONS) Workshop	Evanston, IL
March	University of Pennsylvania	Philadelphia, PA
March	NSF Materials by Design Workshop	Santa Barbara, CA

2010

December	PacifiChem 2010	Honolulu, HI
December	Materials Research Society (MRS) Fall meeting	Boston, MA
November	Northwestern University	Evanston, IL
November	U. of California-San Diego	San Diego, CA
October	U. of California-Berkeley	Berkeley, CA
September	U. of Wisconsin-Madison Environmental Chemistry and Technology	Madison, WI
August	240 th ACS National Meeting, <i>Nano Letters</i> 10 Year Anniversary Symposium	Boston, MA
August	Gordon Research Conference on Solid State Chemistry	New London, NH
July	Asia-Pacific Conference on Semiconducting Silicides and Related Materials	Tsukuba, Japan
July	National Institute of Materials Science (NIMS)	Tsukuba, Japan
June	Gordon Research Conference on Inorganic Chemistry	Biddeford, ME
June	5 th Sino-US Nano Forum	Suzhou, China
April	Midwest Microscopy and Microanalysis Society Conference	Madison, WI
April	7 th Korea-US Nano Forum	Seoul, Korea
March	Rice University	Houston, TX
March	Princeton University	Princeton, NJ
January	Nanyang Technological University	Singapore
January	3rd IEEE International NanoElectronics Conference	Hong Kong, China

2009

October	10 th NIH NCI IMAT meeting	Bethesda, MD
September	DoD Nanoelectronic Devices for Defense & Security Conference	Fort Lauderdale, FL
August	238 th ACS National Meeting	Washington, DC
August	The 17th American Conference on Crystal Growth and Epitaxy	Lake Geneva, WI
May	National Center for Nanoscience and Technology, China	Beijing, China
May	Zhejiang University	Hangzhou, China
May	Peking (Beijing) University (3 lectures)	Beijing, China
April	Stanford University	Palo Alto, CA
April	University of California-Santa Cruz	Santa Cruz, CA
April	Cornell University	Ithaca, NY
April	6 th Foundation of Nanoscience Conference (FNANO09)	SnowBird, UT
April	Ohio State University	Columbus, OH
March	University of Minnesota	Minneapolis, MN
March	237 th ACS National Meeting (Delivered by student Rachel Selinsky)	Salt Lake City, UT
March	Brown University	Providence, RI
March	University of Rochester	Rochester, NY
February	Gordon Research Conference on Renewable Energy: Solar Fuels	Ventura, CA
January	University of California- Santa Barbara	Santa Barbara, CA
January	University of California- Riverside	Riverside, CA
January	University of California- Los Angeles	Los Angeles, CA
January	University of Southern California	Los Angeles, CA

2008

December	Argonne National Laboratory, Center for Nanoscale Materials	Argonne, IL
December	Materials Research Society (MRS) Fall meeting	Boston, MA

4. NSF (ECCS-1609585): Creation, Detection, and Manipulation of Isolated Magnetic Skyrmions in Nanowires for Magnetic Storage Applications
Total award: \$360,000 Period: 6/1/16-5/31/19

Unrestricted Support:

1. H. I. Romnes Faculty Fellowship, U. of Wisconsin-Madison
Total Award: \$ 50,000 Period: 2013-2018
2. Vilas Associate Award, U. of Wisconsin-Madison
Total Award: \$ 36,768 Period: 2012-2014
3. Honeywell University Affiliate Fund
Total Award: \$ 50,000 Period: 2011-
4. Sloan Research Fellowship
Total Award: \$ 50,000 Period: 2009-2012
5. DuPont Young Professor Grant
Total Award: \$ 75,000 Period: 2007-2010
6. DuPont Science and Engineering Grant
Total Award: \$ 10,000 Period: 2006-2007
7. 3M Nontenured Faculty Award
Total Award: \$ 45,000 Period: 2006-2008

Completed:

1. DOE BES (DE-FG02-09ER46664): Fundamental Studies of Charge Transfer in Nanoscale Heterostructures of Earth-Abundant Semiconductors for Solar Energy Conversion
Total Award: \$1,660,000 (PI, with co-PIs J. C. Wright and R. J. Hamers) Period: 9/15/12-12/14/15
2. NSF (ECCS-1231916): Detection and Manipulation of Magnetic Skyrmion Domains in Silicide and Germanide Nanowires for Spintronic Applications
Total award: \$288,840 Period: 9/1/012-8/31/15
3. NSF (DMR-1106184): Fundamental Investigation and Development of Screw Dislocation-Driven Nanowire Growth
Total Award: \$ 397,000 Period: 7/1/11-6/30/15
4. NIH NIBIB (R21EB013847): Nanotechnology Enabled Top-Down Mass Spectrometry-Based Phosphoproteomics
Total award: \$405,778 (PI, with Co-PI: Y. Ge) Period: 2/1/012-1/31/15
5. Research Corporation Scialog Collaborative Innovation Award for Solar Energy Conversion BaSi₂ - a New Earth-Abundant Solar Cell Material
Period: 1/01/13-12/31/14
Total award: \$100,000 (with collaborating PIs, J. Xue, U. of Florida and S. Hirata, U. of Illinois)
6. NIST (Department of Commerce, 70NANB10H003): Transformational Casting Technology for Fabrication of Ultra-High Performance Lightweight Al and Mg Nanocomposites (PI: X. Li)
Total award: \$3,535,615 total cost for the whole project Period: 2/1/10-1/31/15
Supports one postdoc in Jin group
7. NSF (DMR-0832760) NSEC: Templated Synthesis and Assembly at the Nanoscale (PI: Nealey; 27 faculty in total)
Total award: \$14,750,000 total cost for the whole center Period: 9/1/09-8/31/14
Supported one RA in Jin group
8. DOE EERE (DE-EE0005330): Enabling Earth-Abundant Pyrite (FeS₂) Semiconductor Nanostructures for High Performance Photovoltaic Devices

Graduate Students Supervised:

1. *Ph. D. graduates:* Andrew Schmitt (01/05- 07/09), Matthew Bierman (11/04- 07/09), Jeannine Szczech (11/05- 07/10), Stephen Morin (11/05- 02/11), Jeremy Higgins (11/05- 02/11), Rachel Selinsky (11/06 – 06/12), Mark Lukowski (11/08 – 07/13), John DeGrave (11/08 – 09/13), Matthew Faber (11/09 – 06/14), Fei Meng (11/09 – 08/14), Miguel Caban (11/09 – 06/15), Audrey Forticaux (11/10 – 02/15), Ankit Pokhrel (11/10 – 06/15), Linsen Li (11/10 – 06/15), Qi Ding (11/11 – 06/16), Leith Samad (11/11 – 1/17).
2. *Current Graduate students:* Lichen Xiu (11/12 -), Kyle Czech (joint student with J. C. Wright, 2/13 -), Matthew Stolt (11/13 -), Yongping Fu (11/13 -), Melinda Shearer (11/13 -, joint student with R. J. Hamers), Wenjie Li (11/13-), Lianna Dang (11/13-), Matthew Haveman (11/15 -), Yuzhou Zhao (11/15-), Nitish Mathur (1/16 -, MSP), Matthew Hautzinger (11/16-), Dongxu Pan (11/16-), Stephanie Werner (11/16-), Hongyuan Sheng (11/16-), Brandon Lamb (11/16-). *Visiting Graduate Students:* Jie Chen (09/15 –), Yifan Dong (09/15 –), Yang Yang (10/15 –), Liang Cai (9/16 –).
3. *Past Graduate Students:* Lei Zhu (11/05-12/06), Pinray Huang (M.S. 11/04-6/07), Y. K. Albert Lau (M.S., 1/07-1/09), Chris Sichmeller (M.S. 11/08 – 04/11), Salih Hacialioglu (M.S. 11/10 – 5/13); Nicholas Kaiser (M.S., 11/11 – 08/14), Joseph Thomas (11/14 – 4/15).
4. *Past Visiting Graduate Students:* Fan (Julien) Yang (10/07 – 09/09); Hanfeng Liang (10/13 – 03/15); Junqiao Zhuo (08/14 – 10/15),

Postdoctoral Research Associates:*Current:*

Past: Dr. Leekyoung Hwang (06/12 – 05/16); Dr. Tania Guardado-Alvarez (11/14 – 06/16, NIH NRSA Fellowship from 9/15), Dr. Dong Liang (PhD in Physics, 2/12-8/16); Dr. Steven N. Girard (9/11 -7/14, NSF SEES Fellow 08/13 -07/14); Dr. Kwangsuk Park (PhD in Materials Science, 1/12 – 07/13); Dr. Marc Estruga (3/11 – 7/13); Dr. Ryan Franking (12/11- 08/12); Dr. Han Zhang (9/10 – 7/12); Dr. Yanghai Yu (8/10 – 9/11); Dr. Chad Dooley (5/09 – 04/11, on NIH NRSA Fellowship during the second year); Dr. Yipu Song (Ph.D. in Physics, 12/05-06/07), Dr. Fairland Amos (Ph.D. in Materials Science, 1/06-06/07).

Visiting Scholars: Dr. Bo Song (Harbin Institute of Technology, 12/16 -).

Past Visiting Scholars: Dr. Poulomi Roy (Fulbright Scholar, Birla Institute of Technology Mesra, 8/16 – 2/17), Dr. Jun Dai (Jiangsu Science and Technology University, 10/16 – 10/17); Dr. Xiaohua Yang (East China University of Science and Technology, 09/15 – 9/16); Dr. Diwen Ying (Shanghai JiaoTong University, 05/14 -06/16); Prof. Dewei Ma (Zhejiang Institute of Technology, 05/14 – 05/15); Prof. Qun Wang (Harbin Institute of Technology, 01/13 – 01/14); Prof. Xingwang Zhang (Zhejiang University, 10/12 – 03/14).

Undergraduate Researchers:

Current Undergraduates: Richard Costello (2/16-); Kunal Dani (1/15-); Zachary Matusinec (9/15-); Sage Bladow (9/14-); Yi (Johnny) Zhang (6/13 –).

Past undergraduates: Michael Stone (09/13-08/16); Axel Rivera-Larrieux (6/2016-8/2016; REU from University of Puerto Rico in Mayagüez), Brandon Phillips (1/15-5/16); Jianyuan (Jackie) Zhai (06/14-05/16); Cathleen Fry (6/2015-7/2015; REU from Francis College), Alex Schrader (6/2015-7/2015; REU from Drury University), Tyler Slade (08/13-7/15); Mariya Hinojos (6/2014-7/2014; REU from Ripon College), Hong-en Chen (5/2013 -06/14), Rushad Machhi (09/13-5/14); Praveen Sankrithi (2/13-05/14), Liyang Gan (12/12 -05/14), Andrew Daniels (8/12 -05/14), Rafal Dziedzic (08/11 – 05/14); Cade

Federspill (7/13- 11/13), Seth Berger (09/11 – 07/13), Cecilia Gentle (05/13-07/13, REU from University of St. Thomas); Zachary Degregorio (05/11 – 05/13); Sanghun Shin (03/11 – 12/12); Kit Shawn Chew (06/11 – 08/12); Felix Alfonso (06/12 -8/12, REU from U. of Massachusetts-Amherst); Robert Johns (06/11 -8/11, REU from U. of Washington-Seattle); Matt O'Brien (04/08 – 05/11), Ruihua Ding (02/09 – 06/11); Patrick Bollom (12/10 – 5/11); David Lopez (05/10–08/10, REU from U. of Indianapolis); Penelope Carmichael (09/09 – 06/10, exchange student from U. of Bristol); Ray Haoyue Zhu (03/09 – 05/10), Elvin Morales (05/09 – 08/09, REU from U. of Puerto Rico), Davin Chernak (01/08 – 05/09), Jonathan Tong (01/06 – 08/09), Cory Nelson (02/07 – 06/09), Justin Mallek (09/08 – 05/09), Stephen Lee (10/07 – 05/09), Jae Hyo Han (07/08 – 05/09), Miguel Caban (5/08–8/08, REU from U. of Puerto Rico-Rio Piedras), Jean E. Calderón (5/07–8/07, NSEC REU from U. of Puerto Rico), Sarah Brendzel (03/08–05/08, Chem 116), Adam K. Schmitt (5/07–8/07, NSEC REU from Ball State U.); Andrew A. Lafko (01/05–12/06), David A. Maenner (01/05–05/06); Julie Feld (03/06–08/06).

Graduate Student Awards and Fellowships:

ACS Division of Inorganic Chemistry Young Investigator	Yongping Fu	2017
Materials Chemistry Research Excellence Award	Yongping Fu	2017
Fulbright -Nehru Scholar	Poulomi Roy (visiting scholar)	2016
Outstanding Self-Financed Students Abroad	Yongping Fu	2016
UW-Madison Hilldale Research Fellowship	Zachary Matusinec (undergrad)	2016
NSF Graduate Research Fellowship	Lianna Dang	2016-2018
NSF East Asia and Pacific Summer Institutes Fellowship	Matthew Stolt	2016
Outstanding Self-Financed Students Abroad	Linsen Li	2015
NIH Ruth L. Kirschstein National Research Service Award	Tania Guardado (postdoc)	2015-2017
Materials Chemistry Research Excellence Award	Linsen Li	2015
NSF Graduate Research Fellowship	Matthew Stolt	2015-2017
NSF Graduate Research Fellowship	Melinda Shearer	2015-2017
MRS Graduate Student Gold Award	Linsen Li	2014
MRS Science as Art 1st place winner (Spring meeting)	Audrey Forticaux	2014
UW-Madison Hilldale Research Fellowship	Michael Stone (undergrad)	2014
ACS Division of Energy and Fuels Student Award	Matthew Faber	2014
Barry Goldwater Scholarship	Cecilia Gentle (REU student)	2014
Outstanding Self-Financed Students Abroad	Fei Meng	2014
MRS Graduate Student Silver Award	Fei Meng	2013
ACS Division of Energy and Fuels R. A. Glenn Award	Matthew Faber	2013
NSF SEES Postdoctoral Fellowship	Steven Girard (postdoc)	2013
Chuck and Martha Casey Research Excellence Award	Fei Meng	2013
GSFLC Mentor Award	Fei Meng	2013
UW-Madison Hilldale Research Fellowship	Andrew Daniels (undergrad)	2013
UW-Madison Hilldale Research Fellowship	Rafal Dzedzic (undergrad)	2013
Honorable Mention Link Foundation Energy Fellowship	Linsen Li	2013
NSF Graduate Research Fellowship	Leith Samad	2013-2016
Honorable Mention IUPAC Prizes for Young Chemists	Stephen Morin	2012
Notre Dame Nanoscience&Nanoengineering Competition	Robert Johns (REU)	2011
Leah Cohodas Berk Award for Excellence in Chemistry	Rachel Selinsky	2011
NSF East Asia and Pacific Summer Institutes Fellowship	John DeGrave	2011
Fulbright Graduate Fellowship (Turkey)	Salih Hacialioglu	2010
MRS Graduate Student Gold Award	Stephen Morin	2010
NIH Ruth L. Kirschstein National Research Service Award	Chad Dooley (postdoc)	2010-2012
MRS Best Poster Award (Spring meeting)	Stephen Morin	2010
MRS Poster selected to attend Mexican MRS in Cancun	Stephen Morin	2010
Chuck and Martha Casey Research Excellence Award	Stephen Morin	2010
GSFLC Mentor Award	Jeremy M. Higgins	2010

NSF Graduate Research Fellowship	Matthew Faber	2010-2013
NSF Graduate Research Fellowship	Miguel Caban	2010-2013
UW-Madison Hilldale Research Fellowship	Ruihua Ding (undergraduate)	2010
17 th American Conference on Crystal Growth Photo Contest	Matthew Bierman (Song Jin)	2009
MRS Graduate Student Gold Award	Matthew Bierman	2009
<i>Nano Today</i> Cover Competition 2009	Matthew Bierman	2009
Undergraduate Research Mentor Award	Jeremy Higgins	2009
Undergraduate Research Mentor Award	Rachel Selinsky	2009
MRS Science as Art 2 nd place winner (Fall meeting)	Matthew Bierman	2008
UW Madison Energy Hub conference poster award	Jeremy Higgins	2008
Merck Research Laboratories Fellowship	Jeremy Higgins	2008-2009
Wisconsin Distinguished Graduate Student	Andrew Schmitt	2008-2009
Research Excellence Award in Materials Chemistry	Matthew Bierman	2008
MRS Graduate Student Silver Award	Andrew Schmitt	2008
MRS Best Poster Award (Spring meeting)	Andrew Schmitt	2008
MRS Poster selected to attend Mexican MRS in Cancun	Andrew Schmitt	2008
Outstanding Chemistry Teaching Award	Jeannine Szczech	2008
3M Graduate Fellowship	Stephen Morin	2007-2009
Air Product Graduate Fellowship	Matthew Bierman	2007-2008
MRS Best Poster Award (Fall meeting)	Andrew Schmitt	2006
APS User Meeting Best Poster Award	Andrew Schmitt	2006