

Stephen Maldonado, Ph.D.

Department of Chemistry
University of Michigan
930 N University
Ann Arbor, MI 48109-1055

phone: (734) 647-4750
fax: (734) 647-1179
e-mail: smald@umich.edu
web page: www.umich.edu/~mgrou

Professional Preparation

California Institute of Technology	Postdoctoral Fellow	June 2008
University of Texas at Austin	Chemistry Ph.D.	May 2006
University of Iowa	Chemistry B.S.	May 2001

Appointments

University of Michigan	Associate Professor, Chemistry	2014 - present
University of Michigan	Assistant Professor, Chemistry	2008 - 2014
Next Dimension Technologies, Inc.	Research Consultant	2006

Awards and Honors

Robert Kuczkowski Endowed Faculty Research Award	2014
Society of Electroanalytical Chemistry – Young Investigator Award	2014
State of Michigan Governor’s Award in Green Chemistry	2013
Camille Dreyfus Teacher-Scholar Award	2013
Sloan Research Fellow	2013
National Science Foundation CAREER Award	2011 - 2016
Moore Foundation Postdoctoral Fellowship	2007 - 2008
Ford Foundation Postdoctoral Fellowship	2006 - 2007
Donald D. Harrington Graduate Student Fellowship	2003 - 2006
Welch Foundation Graduate Research Fellowship	2002
College of Natural Sciences Graduate Fellowship	2001 - 2002
National Science Foundation Graduate Student Fellowship	2001 - 2003
University of Iowa Sanxay Prize	2001
Beckman Scholar Fellowship	2000 - 2001

Committees/Service (Regional, National)

- Officer of the Detroit Chapter of the Electrochemical Society
President for the 2013-2014 academic year 2010 - 2014
- SEAC Board Member 2012 - present
- Member of State of Michigan Green Chemistry Roundtable
University of Michigan representative 2009 - 2012
- Conference Session Organizer 2010, 2013
Pittcon 2010: “New Frontiers in Electrochemical Energy Conversion and Storage”; Pittcon 2014: “SEAC Highlighting Young Investigators”; MRS Spring 2014: “G: Photoactivated Chemical and Biochemical Processes on Semiconductor Surfaces”
- Academic Reviewer 2008 - present
ACS journals (JACS, Langmuir, JPCC, ACS Nano), El Sevier journals, ECS journals, Wiley Publications, NSF Organic Dynamics Panel, NSF CRIF Panel, NSF DMR, Wiley, National Academies of Sciences report “On Being a Scientist -Responsible Conduct in Research” 3rd Ed, DOE ad hoc reviewer
- Journal Editorial Duties
Chemistry of Materials: Member of the Advisory Board 2014 - present
Journal of the Electrochemical Society: Associate Editor 2014 - present

Memberships

American Chemical Society
 Electrochemical Society
 Materials Research Society
 The Society for Electroanalytical Chemistry

Research Group

Current Members (6 grad students, 3 undergrad students (1 REU), + PI)

Betsy Brown (University of Wisconsin-La Crosse, B. S.)	3 rd yr graduate student	04/12-present
Eli Fahrenkrug (Evergreen State College, B. S.)	3 rd yr graduate student	04/12-present
Luyao Mao (Nanjing University, China)	2 nd yr graduate student	04/13-present
Tim Zhang (Duke University, B.S.)	2 nd yr graduate student	04/13-present
Sudarat Lee (Purdue University, B.S.)	2 nd yr graduate student	04/13-present
Josh Demuth (Northern Illinois University, B.S.)	1 st yr graduate student	04/14-present
Justin Fang (UM)	undergraduate student	05/01-present
Eric Gerber (UM)	undergraduate student	09/01-present

*Former Postdoctoral Fellows and Graduate Students**

Wen Wen	Ph.D. (Winter 2014)	<i>TBD</i>
Junsi Gu	Ph.D. (Winter 2014)	Dow Chemical
Sabrina Peczonczyk	Ph.D. (Winter 2014)	Ford Motor Company: Research
Dr. Zhijie Wang	Postdoc (06/11-05/13)	Ilmenau University of Technology
Michelle Chitambar	Ph.D. (Fall 2012)	Spider 9 Dynamic Energy Systems
Kevin Hagedorn	Ph.D. (Fall 2010)	IMRA America, Inc.
Dr. Jhindan Mukherjee	Postdoc (09/08-09/10)	University of Michigan

Former Undergraduate Students

Janelle Biehl	(summer 2014 REU student – Millersville University, PA)	
Shichen Lian (UM)	BS (Winter 2014)	Northwestern University (Ph D)
Scott Su (UM)		undergraduate student 07/12-08/13
Jessica Rafson	(summer 2013 REU student – USC, CA)	
Elizabeth Keenan (UM)	BS (Winter 2013)	University of North Carolina (Ph D)
Jesse Maddock	BSE (Fall 2012)	Dow Corning
Sean Collins	BS, BM (Winter 2012)	University of Cambridge (Ph D)
Azhar Carim	BS (Winter 2011)	Caltech (Ph D)
Ketian Zhang	(summer 2012 REU student- Peking University, China)	
Lingbo Zhang	(summer 2010 exchange student-Tsinghua University, China)	
Colin Forgacs	BS (Winter 2009)	Fairchild Semiconductor (internship)
Jennifer Ortega	(summer 2009 REU student – Cerritos College, CA)	

Former High School Students

Kamya Jagadish	(Greenhills, summer 2012)	enrolled at Yale in Fall 2012
Allison Hogikyan	(Greenhills, summer 2013)	enrolled at UM in Fall 2013

Publications as a Professor at the University of Michigan*

(*Underline denotes undergraduate authors)

48. Brown, E. S.; Peczonczyk, S. L.; and **Maldonado, S.** “Wet Chemical Functionalization of GaP(111)B Through a Williamson Ether-type Reaction” submitted
47. Gu, J.; Fahrenkrug, E.; and **Maldonado, S.** “Analysis of the Electrodeposition and Surface Chemistry of CdTe, CdSe, and CdS Thin Films through Substrate-Overlayer Surface Enhanced Raman Spectroscopy” *Langmuir*, **2014**, *30*, 10344-10353
46. Fahrenkrug, E.; Gu, J.; and **Maldonado, S.** “Electrochemically-Gated Alloy Formation of Crystalline InAs Thin Films at Room Temperature in Aqueous Electrolytes” *Chem. Mat.*, **2014**, *26*, 4535-4543
45. Eady, S. C.; Peczonczyk, S. L.; **Maldonado, S.**; and Lehnert, N. "Facile Heterogenization of a Cobalt Catalyst via Graphene Adsorption: Robust and Versatile Dihydrogen Production Systems" *Chem. Comm.*, **2014**, *50*, 8065-8068
44. Brown, E. S.; Peczonczyk, S. L.; Wang, Z.; and **Maldonado, S.** “Photoelectrochemical Properties of CH₃-Terminated P-type GaP(111)A”, *J. Phys. Chem. C*, **2014**, *118*, 11593-11600
43. Ma, L.; Gu, J.; Fahrenkrug, E.; and **Maldonado, S.** “Electrochemical Liquid-Liquid-Solid Deposition of Crystalline Ge Nanowires as a Function of Ga Nanodroplets Size” *J. Electrochem. Soc.*, **2014**, *161*, D3044-D3050
42. Lee, D. H.; Kwon, J. Y.; **Maldonado, S.**; Tuteja, A.; and Boukai, A. "Extreme Light Absorption by Multiple Plasmonic Layers on Upgraded Metallurgical Grade Silicon Solar Cells" *Nano Lett.*, **2014**, *14*, 1961-1967
41. Fahrenkrug, E.; Gu, J.; Jeon, S.; Veneman, A.; Goldman, R. S.; and **Maldonado, S.** "Room-Temperature Epitaxial Electrodeposition of Single-Crystalline Germanium Nanowires at the Wafer Scale from an Aqueous Solution" *Nano Lett.*, **2014**, *14*, 847-852
40. Peczonczyk, S. L.; Brown, E. S.; and **Maldonado, S.** "Secondary Functionalization of Allyl-Terminated GaP(111)A Surfaces via Heck Cross-Coupling Metathesis, Hydrosilylation, and Electrophilic Addition of Bromine" *Langmuir*, **2014**, *30*, 156-164
39. Chitambar, M. J.; **Maldonado, S.** “Discrete Contact Nanowire Photovoltaics” *J. Appl. Phys.*, **2013**, *114*, 174503(11)
38. Wang, Z.; Shakyia, A.; Gu, J.; Lian, S.; **Maldonado, S.** “Sensitization of p-GaP with CdSe Quantum Dots: Light Stimulated Hole Injection” *J. Am. Chem. Soc.*, **2013**, *135*, 9275-9278
37. Korala, L.; Wang, Z.; Liu, Y.; **Maldonado, S.**; Brock, S. "Uniform Thin Films of CdSe and CdSe(ZnS) Core(shell) Quantum Dots by Sol-Gel Assembly: Enabling Photoelectrochemical Characterization and Electronic Applications" *ACS Nano*, **2013**, *7*, 1215-1223
36. Gu, J.; Fahrenkrug, E.; **Maldonado, S.** "Direct Electrodeposition of Crystalline Silicon at Low Temperatures" *J. Am. Chem. Soc.*, **2013**, *135*, 16884-16887
35. Fahrenkrug, E.; Gu, J.; **Maldonado, S.** "Electrodeposition of Crystalline GaAs on Liquid Gallium Electrodes in Aqueous Electrolytes" *J. Am. Chem. Soc.*, **2013**, *135*, 330-339
34. Gu, J.; Collins, S. M.; Carim, A. I.; Gao, X.; Bartlett, B.; and **Maldonado, S.** “Template-Free Preparation of Crystalline Ge Nanowire Film Electrodes via an Electrochemical Liquid-Liquid-Solid Process in Water at Ambient Pressure and Temperature for Energy Storage” *Nano Lett.*, **2012**, *12*, 4617-4623
33. Kwon, J. Y.; Lee, D. H.; Chitambar, M. J.; **Maldonado, S.**; Tuteja, A.; and Boukai, A. “High Efficiency Thin Upgraded Metallurgical-Grade Silicon Solar Cells on Flexible Substrates” *Nano Lett.*, **2012**, *12*, 5143-5147
32. Chitambar, M. J.; Wang, Z.; Liu, Y.; Rockett, A.; and **Maldonado, S.** “Dye-Sensitized Photocathodes: Efficient Light-Stimulated Hole Injection into p-GaP Under Depletion Conditions” *J. Am. Chem. Soc.*, **2012**, *134*, 10670-10681

31. Collins, S. M.; Hankett, J.; Carim, A. I.; and **Maldonado, S.** "Preparation of Photoactive ZnGeP₂ Nanowire Films" *J. Mater. Res.*, **2012**, *22*, 6613-6622
30. Peczonczyk, S. L.; Mukherjee, J.; Carim, A. I.; **Maldonado, S.** "Wet Chemical Functionalization of III-V Semiconductor Surfaces: Alkylation of Gallium Arsenide and Gallium Nitride Using a Grignard Reaction Sequence" *Langmuir*, **2012**, *28*, 4672-4682
29. Feldblyum, J. I.; Keenan, E.; Matzger, A. J.; **Maldonado, S.** "Photoresponse Characteristics of Archetypal Metal-Organic Frameworks" *J. Phys. Chem. C*, **2012**, *116*, 3112-3121
28. Foley, J. M.; Price, M. J.; Feldblyum, J. I.; **Maldonado, S.** "Analysis of the Operation of Thin Nanowire Photoelectrodes for Solar Energy Conversion" *Energy Environ. Sci.*, **2012**, *5*, 5203-5220
27. Wen, W.; Carim, A. I.; Collins, S. M.; Price, M. J.; Peczonczyk, S. L.; **Maldonado, S.** "Structural and Photoelectrochemical Properties of GaP Nanowires Annealed in NH₃" *J. Phys. Chem. C*, **2011**, *115*, 22652-22661
26. Carim, A.; Collins, S. M.; Foley, J.; **Maldonado, S.** "Benchtop Electrochemical Liquid-Liquid-Solid Growth of Nanostructured Crystalline Germanium" *J. Am. Chem. Soc.*, **2011**, *133*, 13292-13295
25. Carim, A.; Gu, J.; and **Maldonado, S.** "Overlayer SERS Enhancement for Studying the Electrodeposition and Interfacial Chemistry of Nanostructured Ge" *ACS Nano*, **2011**, *5*, 1818-1830
24. Hagedorn, K.; Forgacs, C.; Collins, S. M.; and **Maldonado, S.** "Design Considerations for Nanowire Heterojunctions in Solar Energy Conversion/Storage Applications" *J. Phys. Chem. C*, **2010**, *114*, 12010-12017
23. Price, M. J.; Foley, J. M.; May, R. A.; and **Maldonado, S.** "Comparison of Majority Carrier Charge Transfer Velocities at Si/Polymer and Si/Metal Photovoltaic Heterojunctions" *Appl. Phys. Lett.*, **2010**, *97*, 083503(1-3)
22. Hagedorn, K.; Collins, S. M.; and **Maldonado, S.** "Preparation and Photoelectrochemical Activity of Macroporous p-GaP(100)" *J. Electrochem. Soc.*, **2010**, *157*, D588-D592
21. Mukherjee, J.; Peczonczyk, S.; and **Maldonado, S.** "Wet Chemical Functionalization of III-V Semiconductor Surfaces: Alkylation of Gallium Phosphide Using a Grignard Reaction Sequence" *Langmuir*, **2010**, *26*, 10890-10896
20. Jankolovits, J.; Kampf, J. W.; **Maldonado, S.**; and Pecoraro, V. L. "Voltammetric Characterization of Redox-Inactive Guest Binding to 15-Metallacrown-5 Hosts Based on Competition with a Redox Probe" *Chem. Eur. J.*, **2010**, *16*, 6786-6796
19. Mukherjee, J. and **Maldonado, S.** "Physicochemical and Electrochemical Properties of Chemically Etched GaP(111)" *J. Electrochem. Soc.*, **2010**, *157*, H487-H495
18. Price, M. J. and **Maldonado, S.** "Macroporous n-GaP in Nonaqueous Regenerative Photoelectrochemical Cells" *J. Phys. Chem. C*, **2009**, *113*, 11988-11994.

Publications as Post-Doctoral Fellow, Graduate Student, and Undergraduate Student

17. Johansson, E.; Boettcher, S.; O'Leary, L.; Poletayev, A.; **Maldonado, S.**; Brunshwig, B.; and Lewis, N. S. "Control of the pH-Dependence of the Band Edges of Si(111) Surfaces Using Mixed Methyl/Allyl Monolayers" *J. Phys. Chem. C*, **2011**, *115*, 8594-8601
16. Garcia-Berrios, E.; Gao, T.; Woodka, M.; **Maldonado, S.**; Brunshwig, B.; Ellsworth, M.; and Lewis, N. S. "Response vs. Chain Length of Alkanethiol-capped Au Nanoparticle Chemiresistive Chemical Vapor Sensors" *J. Phys. Chem. C*, **2010**, *114*, 21914-21920
15. Plass, K. E.; Filler, M. A.; Spurgeon, J. M.; Kayes, B. E.; **Maldonado, S.**; Atwater, H. A.; Lewis, N. S. "Fabrication of Flexible Polymer-Embedded Si Wire Arrays" *Adv. Mater.*, **2008**, *20*, 1-4.

14. **Maldonado, S.** and Lewis, N. S. "*Behavior of Electrodeposited Cd and Pb Schottky Junctions on CH₃-terminated n-Si(111) Surfaces*" J. Electrochem. Soc., **2009**, *156*, H123-H128.
13. **Maldonado, S.**; Knapp, D.; and Lewis, N. S. "*Near-Ideal Photodiodes from Sintered Gold Nanoparticle Films and Chemically Modified Silicon*" J. Am. Chem. Soc., **2008**, *130*, 3300-3301
12. **Maldonado, S.**; Fitch, A. G.; and Lewis, N. S. "*Experimental Progress Towards Designing and Understanding Semiconductor/Liquid Junctions in Photoelectrochemical Cells*" in Photoconversion of Solar Energy: Nanostructured and Photoelectrochemical Systems for Solar Photon Conversion Vol. III, **2008**
11. **Maldonado, S.**; Garcia, E.; Woodka, M.; Brunshwig, B.; and Lewis, N. S. "*Detection of Organic Vapors and NH₃(g) Using Thin-Film Carbon Black-Metallophthalocyanine Composite Chemiresistors*" Sens. Act. B, **2008**, *134*, 521-531.
10. **Maldonado, S.**; Plass, K. E.; Knapp, D.; and Lewis, N. S. "*Electrical Properties of Junctions Between Hg and Si(111) Surfaces Functionalized with Short Chain Alkyls*" J. Phys. Chem. C, **2007**, *111*, 17690-17699
9. **Maldonado, S.**; Smith, T.; Williams, R.; Morin, S.; Barton, E.; and Stevenson, K. J. "*Surface Modification of Indium Tin Oxide via Electrochemical Reduction of Aryldiazonium Cations*" Langmuir, **2006**, *22*, 2884-2891
8. **Maldonado, S.**; Morin, S.; and Stevenson, K. J. "*Structure, Composition, and Chemical Reactivity of Carbon Nanotubes by Selective Nitrogen Doping*" Carbon, **2006**, *44*, 1429-1437
7. Sessler, J. L.; Jayawickramarajah, J.; Gouloumis, A.; Torres, T.; Guldi, D. M.; **Maldonado, S.**; and Stevenson, K. J. "*Synthesis and Photophysics of a Porphyrin- Fullerene Dyad Assembled through Watson-Crick Hydrogen Bonding*" Chem. Comm. **2005**, *14*, 1892-1894
6. **Maldonado, S.**; Morin, S.; and Stevenson, K. J. "*Oxidation of Catecholamines and Cathechol at Carbon Nanotube Electrodes*" Analyst, **2005**, *131*, 262-267
5. **Maldonado, S.** and Stevenson, K. J. "*Influence of Nitrogen Doping on Oxygen Electrocatalysis at Carbon Nanofiber Electrodes*" J. Phys. Chem. B, **2005**, *109*, 4707-4716
4. Lang, H.; **Maldonado, S.**; Stevenson, K. J.; and Chandler, B. D. "*Synthesis and Characterization of Dendrimer Templated Supported Bimetallic Pt-Au Nanoparticles*" J. Am. Chem. Soc., **2004**, *126*, 12949-12956
3. **Maldonado, S.** and Stevenson, K. J. "*Direct Preparation of Carbon Nanofiber Electrodes Via Pyrolysis of Iron(II) Phthalocyanine: Electrocatalytic Aspects for Oxygen Reduction*" J. Phys. Chem. B, **2004**, *108*, 11375-11383
2. **Maldonado, S.** and Stevenson, K. J. "*N-Doped Carbon Nanofibers as Oxygen Reduction and Hydrogen Peroxide Decomposition Catalysts*" Proceedings of the Electrochemical Society, **2006**, 2004-22 (Electron Transfer in Nanomaterials), 421-430
1. Mason, A.; Ilinsky, I. A.; **Maldonado, S.**; and Kultas-Ilinsky, K. "*Thalamic Terminal Fields of Individual Axons from the Ventral Part of the Dentate Nucleus of the Cerebellum in Macaca Mulatta*" J. Comp. Neuro. **2000**, *421*, 412-428

Patents

1. **Maldonado, S.** and Stevenson, K. J. "*Method of Forming Carbon Nanostructure-based Electrocatalytic Electrodes*" PCT Int. Appl. WO 2004-US33602 20041012 **2005**
2. Mukherjee, J. and **Maldonado, S.** "*Alkylation of Ga-Based III-V Semiconductor Surfaces Using Grignard Reagents*" PCT US (filed 02/11/11)
3. Carim, A. and **Maldonado, S.** "*Electrochemical Liquid-Liquid-Solid Deposition Process*" patent filed on 07/20/12

Public Presentations as a Professor at the University of Michigan

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| 69. 2015 International Fischer Symposium, Lubeck Germany | June 7, 2015 |
| 68. SolarFuel 15, Mallorca Spain (Invited) | March 10, 2015 |
| 67. Bowling Green University (Invited) | Dec. 10, 2014 |
| 66. University of Louisville (Invited) | Nov. 21, 2014 |
| 65. University of Minnesota (Invited) | Nov. 13, 2014 |
| 64. Workshop for Center for Sustainable Materials Chemistry (Invited) | Sept. 14, 2014 |
| 63. Pittcon, Chicago; SEAC - Charles N Reilley and Young Investigators Award (Invited) | March 3, 2014 |
| 62. University of Wisconsin, Madison (Invited) | Jan. 30, 2014 |
| 61. Fall Materials Research Society Meeting (Invited) | Dec. 4, 2013 |
| 60. Fall 2013 Electrochemical Chemical Society Meeting, San Francisco (Invited) | Oct. 31, 2013 |
| 59. Indiana University, Bloomington (Invited) | Oct. 22, 2013 |
| 58. Fall 2013 American Chemical Society Meeting, Indianapolis (Invited) | Sept. 10, 2013 |
| 57. Fall 2013 American Chemical Society Meeting, Indianapolis (Invited) | Sept. 9, 2013 |
| 56. 2013 Potter's Lodge Meeting on Electrochemistry (Invited) | Sept. 4-7, 2013 |
| 55. Telluride Science Research Conference: Solar Solutions to Energy and Environmental Problems (Invited) | Aug. 7, 2013 |
| 54. NanoGe: International Conference on New Advances in Materials Research for Solar Fuels Production, Granada Spain | June 14, 2013 |
| 53. University of Illinois, Urbana Champagne (Invited) | May 2, 2013 |
| 52. State University of New York, Binghamton (Invited) | April 26, 2013 |
| 51. Dow Corning, Midland (Invited) | April 18, 2013 |
| 50. University of Utah, Salt Lake City (Invited) | April 15, 2013 |
| 49. University of California, Davis | April 12, 2013 |
| 48. University California, Merced (Invited) | April 11, 2013 |
| 47. University of Stanford – Materials Science, Palo Alto (Invited) | April 10, 2013 |
| 46. Joint Center for Artificial Photosynthesis North, Berkeley (Invited) | April 9, 2013 |
| 45. Northwestern University, Evanston (Invited) | April 4, 2013 |
| 44. University of Notre Dame, South Bend (Invited) | April 2, 2013 |
| 43. University of Texas, Austin (Invited) | March 28, 2013 |
| 42. Pittcon, Philadelphia (Invited) | March 19, 2013 |
| 41. Pittcon, Philadelphia (Invited) | March 17, 2013 |
| 40. University of Wyoming, Laramie (Invited) | March 7, 2013 |
| 39. Colorado State University, Ft. Collins (Invited) | March 6, 2013 |
| 38. National Renewable Energy Laboratory, Boulder (Invited) | March 5, 2013 |
| 37. University of San Diego, San Diego (Invited) | Feb. 6, 2013 |
| 36. Caltech, Pasadena (Invited) | Feb. 4, 2013 |
| 35. University of Michigan-Materials Science & Engineering, Ann Arbor (Invited) | Nov. 16, 2012 |
| 34. Purdue University, West Lafayette (Invited) | Nov. 6, 2012 |
| 33. 68 th Midland Section of the ACS, Saginaw, MI (Invited) | Oct. 20, 2012 |
| 32. University of California-Irvine, Irvine, CA (Invited) | Oct. 16, 2012 |
| 31. Fall 2012 Electrochemical Society Meeting, Honolulu, HI (Invited) | Oct. 10, 2012 |
| 30. Fall 2012 American Chemical Society Meeting, Philadelphia, PA | Aug. 27, 2012 |
| 29. Gordon Conference on Electrodeposition, Biddeford, ME (Invited) | Aug. 3, 2012 |
| 28. Florida ACS annual meeting (Invited) | May 18, 2012 |
| 27. Ohio State University, Columbus (Invited) | May 1, 2012 |
| 26. Vanderbilt University, Nashville (Invited) | April 16, 2012 |
| 25. Spring 2012 MRS Meeting, San Francisco | April 10, 2012 |

24. Michigan State University, East Lansing (Invited) March 23, 2012
23. Wayne State University, Detroit (Invited) March 22, 2012
22. Ben-Gurion University, Israel Feb. 21, 2012
21. Gordon Conference on Electrochemistry, Ventura Jan. 10, 2012
20. Fall 2011 ACS Southwestern Regional Meeting, Austin (Invited) Nov. 10, 2011
19. 2011 Anachem, Livonia (Invited) Nov. 3, 2011
18. University of Georgia, Athens (Invited) Oct. 19, 2011
17. Denison University, Granville (Invited) Oct. 14, 2011
16. Fall 2011 American Chemical Society Meeting, Denver Aug. 30, 2011
15. Fall 2011 American Chemical Society Meeting, Denver Aug. 29, 2011
14. 2011 SPIE Optics and Photonics, San Diego Aug. 25, 2011
13. Solar Fuels: Light Capture and Electron Flow, Prague (Invited) May 25, 2011
12. Spring 2011 Electrochemical Society Meeting, Montreal May 4, 2011
11. Spring 2011 Electrochemical Society Meeting, Montreal May 3, 2011
10. Spring 2011 Materials Research Society Meeting, San Francisco, CA April 26, 2011
9. Fall 2010 Electrochemical Society Meeting, Las Vegas, NV Oct. 14, 2010
8. Fall 2010 Electrochemical Society Meeting, Las Vegas, NV Oct. 11, 2010
7. Fall 2010 American Chemical Society Meeting, Boston, MA Aug. 23, 2010
6. St. Louis University, St. Louis, MO (Invited) April 23, 2010
5. Pittcon 2010, Orlando, FL (Invited) March 3, 2010
4. Electrochemical Society: Detroit Chapter, Southfield, MI Feb. 16, 2010
3. ACS Midwest Regional Meeting, Iowa City, IA (Invited) Oct. 23, 2009
2. University of Iowa, Iowa City, IA (Invited) Nov. 20, 2008
1. Hillsdale College, Hillsdale, MI (Invited) Oct. 7, 2008