

ConvEne IGERT Publications (updated March 1, 2013):

With DOI links where available. Also to be found at <http://www.mrl.ucsb.edu/~seshadri>

Fellows (in bold):

45. **J. L. Heinecke**, C. Khin, J. C. M. Pereira, S. A. Suárez, A. V. Iretskii, F. Doctorovich, and P. C. Ford, Nitrite Reduction Mediated by Heme Models. Routes to NO and HNO?, *J. Am. Chem. Soc.*, Just Accepted Manuscript [doi]
44. A. Ivanovskaya, **N. Singh**, R. Liu, H. Kreutzer, J. Baltrusaitis, T. V. Nguyen, H. Metiu, and E. McFarland, Transition Metal Sulfide Hydrogen Evolution Catalysts for Hydrobromic Acid Electrolysis, *Langmuir*, **29** (2013) 480–492 [doi]
43. **A. D. Ostrowsk**, B. F. Lin, M. V. Tirrell, and P. C. Ford, Liposome Encapsulation of a Photochemical NO Precursor for Controlled Nitric Oxide Release and Simultaneous Fluorescence Imaging, *Mol. Pharmaceutics*, **9**, (2012), 2950–2955 [doi]
42. **P. T. Burks** and P. C. Ford, Quantum dot photosensitizers. Interactions with transition metal centers, *Dalton Trans.*, **41**, (2012), 13030–13042 [doi]
41. **J. L. Heinecke**, J. Yi, J. C. M. Pereira, G. B. Richter-Addo, and P. C. Ford, Nitrite reduction by Co^{II} and Mn^{II} substituted myoglobins Towards understanding necessary components of Mb nitrite reductase activity, *J. of Inorg. Bio.*, **107**, (2012), 47–53 [doi]
40. **P. T. Burks**, **A. D. Ostrowski**, A. A. Mikhailovsky, E. M. Chan, P. S. Wagenknecht, and P. C. Ford, Quantum Dot Photoluminescence Quenching by Cr(III) Complexes. Photosensitized Reactions and Evidence for a FRET Mechanism, *J. Am. Chem. Soc.* **134** (2012) 13266–13275 [doi]
39. **K. A. Denault**, **N. C. George**, S. R. Paden, S. Brinkley, A. A. Mikhailovsky, J. Neufeind, S. P. DenBaars, and R. Seshadri, A green-yellow emitting oxyfluoride solid solution phosphor Sr₂Ba(AlO₄F)_{1-x}(SiO₅)_x:Ce³⁺ for thermally stable, high color rendition solid state white lighting, *J. Mater. Chem.* **22** (2012) 18204–18213 [doi]
38. C. S. Birkel, W. Zeier, **J. E. Douglas**, B. Lettiere, C. Mills, G. Seward, A. Birkel, M. Snedaker, Y. Zhang, G. Snyder, T. Pollock, R. Seshadri, and G. D. Stucky, Rapid microwave preparation of thermoelectric TiNiSn and TiCoSb half-Heusler compounds, *Chem. Mater.* **24** (2012) 2558–2565. [doi]
37. W. Cheng, **N. Singh**, J. A. Maciá-Agulló, G. D. Stucky, E. W. McFarland, Jonas Baltrusaitis, Optimal experimental conditions for hydrogen production using low voltage electrooxidation of organic wastewater feedstock, *Int. J. of Hydrogen Energy* **37** (2012) 13304–13313. [doi]
36. D. Credington, F. C. Jamieson, **B. Walker**, T. Q. Nguyen and J. R. Durrant, Quantification of Geminate and Non-Geminate Recombination Losses within a Solution-Processed Small-Molecule Bulk Heterojunction Solar Cell, *Adv. Mater.* **24** (2012) 2135–2141. [doi]
35. J. K. Park, C. Kim, **B. Walker**, T. Q. Nguyen, and Jung Hwa Seo, Morphology control of solution processable small molecule bulk heterojunction solar cells via solvent additives, *RSC Adv.* **2** (2012) 2232–2234. [doi]
34. A. Birkel, **K. A. Denault**, **N. C. George**, C. E. Doll, B. Hery, A. A. Mikhailovsky, C. S. Birkel, B. C. Hong, and R. Seshadri, Rapid Microwave Preparation of Highly Efficient Ce³⁺-Substituted Garnet Phosphors for Solid State White Lighting, *Chem. Mater.* **24** (2012) 1198–1204. [doi]
33. A. Birkel, L. E. Darago, A. Morrison, L. Lory, **N. C. George**, A. A. Mikhailovsky, C. S. Birkel, and R. Seshadri, Microwave assisted preparation of Eu²⁺-doped Akermanite Ca₂MgSi₂O₇, *Solid State Sci.* **14** (2012) 739–745. [doi]

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31. **J. L. Heinecke**, J. Yi, J. C. M. Pereira, G. B. Richter-Addo, and P. C. Ford, Nitrite reduction by Co^{II} and Mn^{II} substituted myoglobins: Towards understanding necessary components of Mb nitrite reductase activity, *J. Inorg. Biochem.* **107** (2012) 47–53. [[doi](#)]
30. **B. Walker**, X. Han, C. Kim, A. Sellinger, and T. Q. Nguyen, Solution-Processed Organic Solar Cells from Dye Molecules: An Investigation of Diketopyrrolopyrrole:Vinazene Heterojunctions, *ACS Appl. Mater. Interfaces* **4** (2012) 244–250. [[doi](#)]
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25. S. E. Brinkley, N. Pfaff, **K. A. Denault**, Z. Zhang, H. T. Hintzen, R. Seshadri, S. Nakamura, and S. P. DenBaars, Robust thermal performance of $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$: An efficient red emitting phosphor for light emitting diode based white lighting *Appl. Phys. Lett* **99** (2011) 241106-1–241106-3. [[doi](#)]
24. R. Shayib, **N. C. George**, R. Seshadri, A. Burton, S. I. Zones, and B. Chmelka, Structure-Directing Roles and Interactions of Fluoride and Organocations with Siliceous Zeolite Frameworks, *J. Am. Chem. Soc* **133** (2011) 18728–18741. [[doi](#)]
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14. S. Neyshtadt, **J. P. Jahnke**, R. J. Messinger, A. Rawal, T. Segal Peretz, D. Huppert, B. F. Chmelka, and G. L. Frey, Understanding and Controlling Organic/Inorganic Interfaces in Mesostructured Hybrid Photovoltaic Materials *J. Am. Chem. Soc.* **133** (2011) 10119–10133. [doi]
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2. R. B. Ross, C. M. Cardona, D. M. Guldi, S. G. Sankaranarayanan, S. O. Reese, N. Kopidakis, J. Peet, **B. Walker**, G. C. Bazan, E. V. Keuren, B. C. Holloway, and M. Drees, Endohedral fullerenes for organic photovoltaic devices, *Nature Mater.* **8** (2009) 208–212. [[doi](#)]
1. **A. D. Ostrowski** and P. C. Ford, Metal complexes as photochemical nitric oxide precursors: Potential applications in the treatment of tumors, *Dalton Trans.* (2009) 10660–10669. [[doi](#)]

Associates (in bold):

13. K. Ding, **A. R. Derk**, A. Zhang, Z. Hu, P. Stoimenov, G. D. Stucky, H. Metiu, and E. W. McFarland, Hydrodebromination and Oligomerization of Dibromomethanes, *ACS Cat.* **2** (2012) 479–486. [[doi](#)]
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9. A. Knappschneider, C. Litterscheid, **J. Kurzman**, R. Seshadri, and B. Albert, Crystal Structure Refinement and Bonding Patterns of CrB_4 : A Boron-Rich Boride with a Framework of Tetrahedrally Coordinated B Atoms, *Inorg. Chem.* **50** (2011) 10540–10542. [[doi](#)]
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