

Curriculum Vitae

Joseph P. Feser, Ph.D. Candidate, Mechanical Engineering

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Degrees

Honors Bachelor of Mechanical Engineering, University of Delaware, Newark, DE, 2003
Masters of Science in Mechanical Engineering, University of Delaware, Newark, DE, 2005

Current Position

Ph.D. Student/Graduate Research Assistant, University of California at Berkeley, Nanoengineering Laboratory, 2005-Present, Advisor: Arun Majumdar.(2005-2009), Rachel Segalman (2009-Present)

Publications

Zide, JMO, Bahk J-H, Singh R, Zebarjadi M, Zeng G, Lu H, Feser JP, Xu D, Singer SL, Bian ZX, Majumdar A, Bowers JE, Shakouri A, Gossard AC, "High efficiency semimetal/semiconductor nanocomposite thermoelectric materials," *Science*, Submitted, (2009)

Wang R, Feser JP, Gu X, Yu K.M., Segalman RA, Majumdar A, Milliron D.J., Urban JJ, "Thermoelectric Properties of Solution-Processed Bismuth Chalcogenide Compounds," *Applied Physics Letters*, Submitted, (2009)

Sun J, Yeh M, Jung BJ, Feser JP, Majumdar A, Katz HE, "Simultaneous Increase in Seebeck Coefficient and Conductivity in a Doped Poly(alkylthiophene) Blend with Defined Density of States," *Macromolecules*, Submitted (2009)

Wang R, Feser JP, Lee JS, Talapin DV, Segalman RA, Majumdar A, "Enhanced Thermopower in PbSe Nanocrystal Quantum Dot Superlattices," *Nano Letters*, 8(8): 2283-2288 (2008)

Feser JP, Prasad AK, Advani SG. "Particle image velocimetry measurements in a model proton exchange membrane fuel cell." *Journal of Fuel Cell Science and Technology*, 4(3): 328-335 (2007)

Feser JP, Prasad AK, Advani SG. "Experimental characterization of in-plane permeability of gas diffusion layers." *Journal of Power Sources*, 162(2): 1226-1231 (2006)

Feser JP, Prasad AK, Advani SG. "On the relative influence of convection in serpentine flow fields of PEM fuel cells." *Journal of Power Sources*, 161(1): 404-412 (2006)

Teaching Experience

Teaching Assistant

- Fluid Mechanics (ME 106), UC Berkeley, Fall 2005 & Spring 2006
- Junior Design – Elements (MEEG 304), University of Delaware, Spring 2004
- Solid Mechanics (MEEG215), University of Delaware, Fall 2003

SHARP Mentor (Summer High-School Apprenticeship Research Program), 2007

Professional Engineering License

Engineering Intern, DAPE

Professional Courses

11th National School on Neutron & Xray Scattering, June 2009
Short Course on Rheology, Spring 2004

Societies

National Society of Professional Engineers (NSPE)

National Society of Collegiate Scholars (NSCS)

Alpha Lambda Delta

Honors and Awards

Helwig Graduate Fellowship, 2004

Redden Mechanical Engineering Scholarship, 2002

Honors Program Scholarship, 2002 University of Delaware Scholar Award, 1999-2003