

## Jeff Drucker

### Professional Preparation

University of California, Irvine	B.A. in Physics, 1981
University of California, Santa Barbara	Ph.D. in Physics, 1986
Arizona State University	Postdoc, Dept. of Physics and Astronomy, 1987-1991

### Appointments

2006 – present	Professor, Department of Physics, Arizona State University
2000 - 2006	Associate Professor, Dept. of Physics and Astronomy, Arizona State University
2000	Associate Professor, Physics Dept., University of Texas at El Paso
1994 - 2000	Assistant Professor, Physics Dept., University of Texas at El Paso
1991-1994	Research Scientist, Center for Solid State Science, Arizona State University

### Significant Publications

- Spreading of Liquid AuSi on Vapor-Liquid Solid-Grown Si Nanowires*, Prashanth Madras, Eric Dailey and Jeff Drucker, *Nano Letters*, **10**, 1759 (2010).
- Kinetically Induced Kinking of Vapor-Liquid-Solid Grown Epitaxial Si Nanowires*, Prashanth Madras, Eric Dailey and Jeff Drucker, *Nano Letters*, **9**, 3826 (2009).
- Kinetically Suppressed Ostwald Ripening of Ge/Si(100) Hut Clusters*, Michael R. McKay, J.A. Venables and Jeff Drucker, *Phys. Rev. Lett.*, **101**, 216104 (2008).
- Kinetic Control of Ge(Si)/Si(100) Dome Cluster Composition*, E. P. McDaniel, Qian Jiang, P. A. Crozier, Jeff Drucker and David J. Smith, *Appl. Phys. Lett.*, **87**, 223101, (2005).
- Self-Assembling Ge/Si(100) Quantum Dots*, *Invited Review*, Jeff Drucker, *IEEE Journal of Quantum Electronics*, **38**(8), 975-987 (2002).
- Strain Relief via Trench Formation in Ge/Si(100) Islands*, S.A. Chaparro, Y. Zhang and Jeff Drucker, *Appl. Phys. Lett.*, **76**(24), 3534-3536 (2000).
- Shape Evolution of Ge/Si(100) Coherent Islands: Coverage, Size and Temperature Dependence*, S.A. Chaparro, Y. Zhang, Jeff Drucker, D. Chandrasekhar and David J. Smith, *J. Appl. Phys.*, **87**(5), 2245-2254 (2000).
- Strain-Driven Alloying in Ge/Si(100) Coherent Islands*, Sergio Chaparro, Zhang Yangting, Jeff Drucker, D. Chandrasekhar, M. McCartney and David J. Smith, *Phys. Rev. Lett.*, **83**(6), 1199-1203 (1999).
- Diffusional Narrowing of Ge on Si(100) Coherent Island Quantum Dot Size Distributions*, Jeff Drucker and Sergio Chaparro, *Appl. Phys. Lett.*, **71**(5), 614-616 (1997).
- Coherent Islands and Microstructural Evolution*, Jeff Drucker, *Phys. Rev. B*, **48**(24), 18,203-18,206 (1993).
- Microstructural Evolution During the Heteroepitaxy of Ge on Vicinal Si(100)*, Mohan Krishnamurthy, Jeff Drucker and John Venables, *J. Appl. Phys.*, **69**, 6461-6471 (1991).