AARON GIN

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Education

Undergraduate:	Valparaiso University	Electrical Engineering	B.S. 1999
Graduate:	Stanford University	Electrical Engineering	M.S. 2001
	Northwestern University	Electrical Engineering	Ph.D. 2005

Appointments

CINT Scientist, Sandia National Laboratories, Mar. 2006 - present

Senior Member of Technical Staff, Sandia National Laboratories, October 2005 – present

Publications

1. *The effect of absorber doping on electrical and optical properties of nBn based type-II InAs/GaSb strained layer superlattice infrared detectors*, S. Myers, E. Plis, A. Khoshakhlagh, H. S. Kim, Y. Sharma, R. Dawson, S. Krishna, A. Gin, Appl. Phys. Lett. 95 121110, (2009).
2. *Doping-Tunable Metamaterials in the Mid-Infrared*, X. Miao, B. Passmore, A. Gin, S. Vangala, W. Goodhue, E. Shaner, I. Brener, Frontiers in Optics OSA PDPB8, (2009).
3. *Active Resonant Subwavelength Grating Devices for High Speed Spectroscopic Sensing*, A.V. Gin, S.A. Kemme, R.R. Boye, D.W. Peters, J.F. Ihlefeld, R.D. Briggs, J.R. Wendt, L.H. Marshall, T.R. Carter and S. Samora, Proc. SPIE 7218, (2009).
4. *Electron Beam Lithography for the Nanofabrication of Optical Devices*, (Book chapter) Aaron Gin and Joel R. Wendt, in Microoptics and Nanooptics Fabrication, ed. S. A. Kemme, 109-126 (2009).
5. *Recent advances in molecular lithography*, Michael Norton, Mashiur Rahman, B. Scott Day, Chad Huffman, Huan Cao, David Neff, Heather Butts and Aaron Gin, Proc. SPIE 6769, 67690M (2007).
6. *Atomic engineering in Type II InAs/GaSb for multicolor infrared camera*, (Book chapter) Yajun Wei, Aaron Gin, Manijeh Razeghi, in Handbook of Semiconductor Nanostructures and Nanodevices, ed. A. A. Balandin and K. L. Wang, 447-495 (2006).

Collaborators: Los Alamos National Laboratory: J. Hollingsworth, T. Picraux, R. Prasankumar, S. Dayeh, A. Efimov, E. Akhadov; Marshall University: M. Norton; New Mexico Tech: Nikolai Kalugin; NIST: S. Nam, M. Keller; Northwestern University: H. Espinosa; Sandia National Laboratories: M. Carroll, M. Lilly, J. Kim, S. Kemme, I. Brener, A. Gabbay, J. Martinez, X. Miao, E. Shaner, A. Subramanian, R. Boye, A. Cruz-Cabrera, J. Wendt, G. Brennecka, W. Luk, G. Subramania, M. Wanke, G. Wang, A. Talin; Rice University: D. Natelson; Rochester Institute of Technology: G. Swartzlander; University of California, Los Angeles: D. Huffaker; University of New Mexico: L. Lester, S. Krishna, R. Shenoi; University of Maryland/LPS: K. Osborn; Univeristy of Texas, Austin: J. Ekerdt

Graduate Advisor: M. Razeghi, Northwestern University

Synergistic Activities

Awards: Northwestern University Graduate Research Fellow, 2003-2004

National Science Foundation Graduate Research Fellow, 2000-2003

Tau Beta Pi Lenfesty Graduate Fellow, 1999-2000

Publications: Two book chapters and over 25 journal articles.