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Education

Dec. 2001 PhD, Physics, University of Texas at Austin, Austin, Texas
May 1996 MS, Physics, Western Illinois University, Macomb, Illinois
Dec. 1991 BS, Physics (Honors), University of Yangon, Yangon, Myanmar

Appointments

Technical Staff Member, Los Alamos National Lab Nov. 2005 – present
Director's Postdoctoral Fellow, Los Alamos National Lab Dec. 2001-Nov. 2005

Publications

1. *Observation of the Kohn anomaly near the K point of bilayer graphene.* D. L. Mafra, L. M. Malard, S. K. Doorn, H. Htoon, J. Nilsson, A. H. C. Neto and M. A. Pimenta. *Physical Review B* 80, 241414(R) (2009) (U2008A041)
2. *Anomalous Circular Polarization of Photoluminescence Spectra of Individual CdSe Nanocrystals in an Applied Magnetic Field.* H. Htoon, S. A. Crooker, M. Furis, S. Jeong, A. L. Efros and V. I. Klimov. *Physical Review Letters* 102, 017402 (2009)
3. *Exciton localization and migration in individual CdSe quantum wires at low temperatures.* J. J. Glennon, R. Tang, W. E. Buhro, R. A. Loomis, D. A. Bussian, H. Htoon and V. I. Klimov. *Physical Review B* 80, 081303(R) (2009) (U2006A133)
4. *Quantum Optics with Nanocrystal Quantum Dots in Solution: Quantitative Study of Clustering.* D. A. Bussian, A. V. Malko, H. Htoon, Y. Chen, J. A. Hollingsworth and V. I. Klimov. *Journal of Physical Chemistry* 113, 2241 (2009) (U2008A078)
5. *Direct observation of dark excitons in individual carbon nanotubes: inhomogeneity in the exchange splitting.* A. Srivastava, H. Htoon, V. I. Klimov and J. Kono. *Physical Review Letters* 101, 087402-1-4 (2008) (times cited: 10) (U2007A241)
6. *Lasing characteristics of GaSb/GaAs self-assembled quantum dots embedded in an InGaAs quantum well.* J. Tatebayashi, A. Khoshakhlagh, S. H. Huang, G. Balakrishnan, L. R. Dawson, D. L. Huffaker, D. A. Bussian, H. Htoon and V. Klimov. *Applied Physics Letters* 90, (2007) (U2006A155)
7. *Single carbon nanotubes probed by photoluminescence excitation spectroscopy: the role of phonon-assisted transitions.* H. Htoon, M. J. O'Connell, S. K. Doorn and V. I. Klimov. *Physical Review Letters* 94, 127403 (2005) (times cited: 46)
8. *Low Temperature Emission Spectra of Individual Single-Wall Carbon Nanotubes: Multiplicity of Subspecies within Single-Species Nanotube Ensembles.* H. Htoon et al. *Phys. Rev. Lett.* 93, 027401, (2004) (Times cited: 57)
9. *The Effect of Zero- to One-Dimensional Transformation on Multiparticle Auger Recombination in Semiconductor Quantum Rods.* H. Htoon, J.A. Hollingsworth, R. Dickerson and V.I. Klimov. *Phys. Rev. Lett.* 91, 227401 (2003) (Times cited: 52)
10. *Interplay of Rabi oscillations and quantum interference in semiconductor quantum dots.* H. Htoon, T. Takagahara, D. Kulik, O. Baklenov, A. L. Holmes, Jr and C. K. Shih. *Physical Review Letters* 88, 87401 (2002)) (Times cited: 165)

Collaborators: Los Alamos National Laboratory: V. I. Klimov, S. Crooker, J. A. Hollingsworth, A. Taylor, S. T. Picraux, I. H. Campbell, S. K. Doorn, R. D. Schaller, J. M. Pietryga, M. Sykora ; Rice University: J. Kono, Niaome Halaas; Washington University: R. A. Loomis; Arizona State University: Hongbin Yu; University of New Mexico/University of California (Los Angeles) Diana Huffaker; University of Texas at Dallas: Anton V. Malko, Anvar A. Zakhidov

Graduate and Postdoctoral Advisors: C. K. Shih, University of Texas at Austin; V. I. Klimov, LANL.

Synergistic Activities

Awards

Postdoctoral Distinguish Performance Award, Los Alamos National Laboratory (2005)

Achievement Award, Los Alamos National Laboratory (2003)

Director's Postdoctoral Fellowship, Los Alamos National Laboratory (2001)

Outstanding Poster Award, MRS 1999 Fall Meeting

Best Graduate Student Award (1996), Department of Physics, Western Illinois University

Publications

One book chapter, 34 peer reviewed papers including 7 PRL, 4 PRB (Rapid Com) and 4 *APL*

Citation Index: Cited more than 700 times, h-index: 14

Materials Research Society Member

American Physical Society Member

American Chemical Society Member