Curriculum Vitae

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Education

The University of Texas at Arlington, Arlington, TX
Ph.D. in Physics and Applied Physics

The University of Texas at Arlington, Arlington, TX
M.S. in Physics

Bucharest University, Bucharest, Romania
B.S. Physics

Teaching Experience

North Lake College, Irving, TX August 2009 -present
Instructor – Physics 1401, 1415, 2426 and 2426

North Lake College, Dallas, TX January 2008 – July 2009
Mountain View College, Dallas, TX – August 2008 – June 2009
Adjunct Instructor – Physics 1401, 2426

The University of Texas at Arlington, Arlington, TX August 2003 – December 2008
Graduate Teaching Assistant –Physics 1441, 1442, 1443, 1444
Physics lab instructor for Electricity and Magnetism, Optics and Electronics
Postdoctoral Researcher Materials Science and Engineering Department December 2008– July 2008

Publications and Papers

Entropy Change for Magnetic Phase Transition in CoNi/Gd and CoFe/Gd Nanolayers, Nov 13, 2008
MMM, Austin, TX
Exchange Bias in a Ferrimagnetic/Antiferromagnetic System, March 14, 2008
APS, New Orleans, LA
Magnetic Thermal Hysteresis in (Co, Fe)/Tb Multilayers, March 14, 2006
APS, Baltimore, MD
Tunable Thermal Hysteresis in CoNi/Gd Nanolayers, March 23, 2005
APS, Los Angeles, CA

1. Singh G.**,** Priya S.**,** Hossu M. R., Shah S. R., Grover S., Koymen A. R., Mahajan R. L., "Synthesis, electrical and magnetic characterization of core–shell silicon carbo-nitride coated carbon nanotubes", Materials Letters, vol. 63, no 28, 2009, pp. 2435

2. Hossu M. R., Hao Y., Koymen A. R., "Entropy Change for Magnetic Phase Transitions in CoNi/Gd Nanolayers", Journal of Physics: Condensed Matter vol. 20**,** no.21, 2008, pp. 215224

3. Demirtas S., Hossu M. R., Arikan M., Koymen A. R., Salamon M., "Tunable negative and positive coercivity for SmCo/(Co/Gd exchange springs investigated with SQUID magnetomery", Phys. Rev. B 76, 2007,pp. 214430

4. Sharma V., Hossu M. R., Lee W. H., Koymen A. R., Priya S., "Effect of A-site dopant on the piezoresistive characteristics of $La_{0.8}Sr_{0.2}MnO_3$ ceramics", Journal of Materials Science 42, 2007, pp.9841

5. Sharma V., Jiang J., Hossu M.R., Koymen A.R., Priya S., "Self-assembled periodic nanoporous network in multifunctional ZrO_2–CeO_2–$(La_{0.8}Sr_{0.2})MnO_3$ composites", Appl. Phys. Lett. 90, 2007, pp. 123110

6. Sharma V., Hossu M. R., Lee W. H., Koymen A. R., and Priya S., "Enhanced piezoresistive characteristics of Nb_2O_5 modified $La_{0.8}Sr_{0.2}MnO_3$ ceramics **",** Appl. Phys. Lett. 89, 2006, pp. 202902

7. Hossu M. R., Koymen A. R., "Field controlled magnetic thermal hysteresis in Co/Tb multilayers", Appl. Phys. 99, 2006, pp. 08C704

8. Demirtas S., Hossu M. R., Camley R. E., Mireles H. C., Koymen A. R., "Tunable magnetic thermal hysteresis in transition metal (Fe, Co, CoNi)/rare earth (Gd) multilayers", Phys. Rev. B 72, 2005, pp. 184433