Simon Kelly

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Education

North Carolina State University North Carolina State University North Carolina State University Universiteit Leiden, The Netherlands Mechanical Engineering Economics Mechanical Engineering Physics B.S., 1988 M.S., 1990 M.S., 1998. Ph.D., 2012.

Professional Experience

2012-р	Postdoctoral Research Associate, Oak Ridge National Laboratory.
2010-2012	Research Assistant, Indiana University, Physics Department.
2005-2009	Research Assistant, Universiteit Leiden, The Netherlands.
2003-2005	Research Assistant, North Carolina State University, Physics Department.
2001-2003	Mechanical Engineer, Parata Systems, Durham, North Carolina.
1999-2001	Mechanical Engineer, Milliken Research Corp., Spartanburg, South Carolina.
1996-1998	Research Assistant, North Carolina State University, Mechanical Engineering

Professional Activities

2005-р	Member of Materials Research Society
2005-р	Member of American Physical Society

Research Synopsis

- 1. Nanoscale characterization of thermoelectric materials with scanning tunneling microscope and atomic force microscope.
- 2. Low-temperature scanning tunneling microscopy investigation of molecules adsorbed onto both metals and semiconductors.

Publications

- 1. Lakhani A. M.; Kelly S. J.; Pearl T.P., "Design and Operation of a Versatile, Ultrahigh Vacuum, Low Temperature Scanning Probe Microscope," Rev. Sci. Inst., **77** 043709 (2006).
- Kelly, S.; Galli, F.; Komissarov, I.; Aarts, J., "Correlations Between the Morphology and the Electronic Structure at the Surface of Thin Film Manganites, Investigated with STM," Phys. Rev. B, (cond-mat arXiv:0902.0626), submitted.
- Kelly, S.; Galli, F.; Aarts, J.; Sharma, M.; Leighton, C., "Correlation Between Thickness and Electronic Structure at the Surface of Thin Film La0.5Sr0.5CoO3 Measured with STM," Appl. Phys. Lett., to be submitted.

Patents

US Patent 7,275,353 Invented robot end-effecter and other contributions