

Jia Grace Lu - Publications

Selected Publications:

"Single Electronics", J.G. Lu, "Nanoscale Science and Technology", eds. M. Di Ventra, S. Evoy, J.R. Heflin, Kluwer Academic, in press (2003).

"Fabrication and Characteristics of Ferromagnetic Single Electron Transistors" J. Philip, D. Wang, J.G. Lu, M. Muenzenberg, and J.S. Moodera, Journal of Magnetism and Magnetic Material, in press (2003).

"Synthesis, Morphology and Electrical Characterization of Ag-TCNQ from Thin Film to Nanowire" Z.Y. Fan, J.G. Lu, X.L. Mo, and G.R. Chen, Reviews on Advanced Materials Science, in press (2003).

"Characterization of Self-assembled Alkanethiol Monolayers Using a Low-current STM" D.W. Wang, F. Tian, J.G. Lu, Journal of Vac. Sci. and Tech. B, vol. 20, no. 1, p. 60-64, (2002).

"Evidence for Luttinger Liquid Behavior in Carbon Nanotubes", M. Bockrath, D.H. Cobden, Jia Lu, A.G. Rinzler, R.E. Smalley, L. Balents, and P.L. McEuen, Nature 397, 598-601 (1999).

"Effect of Island Length on the Coulomb Modulation in Single-Electron Transistors", J.G. Lu, J.M. Hergenrother, and M. Tinkham, Physical Review B. 57, 4591-4598 (1998).

"Parity Effect in Superconducting Islands with Increasing Lengths", J.G. Lu, J.M. Hergenrother, and M. Tinkham, Physical Review B. 57, 120-122 (1998).

"Ultrasmall Superconductors", D.C. Ralph, C.T. Black, J.M. Hergenrother, J.G. Lu, and M. Tinkham, p.447-467, Mesoscopic Electron Transport, L.L. Sohn, L.P. Kouwenhoven, and G. Schon (eds), Boston: Kluwer Academic Publishers, (1997).

"Magnetic-Field-Induced Crossover from $2e$ to e Periodicity in the Superconducting Single- Electron Transistor", J.G. Lu, J.M. Hergenrother, and M. Tinkham, Physical Review B. 53, 3543-3549 (1996).

"Temperature Dependence of Even-Odd Electron Number Effects in the Single-Electron Transistor with a Superconducting Island", M. Tinkham, J.M. Hergenrother, J.G. Lu, Physical Review B. 51, 12649 (1995).

"Photon-Assisted Tunneling in the Single-Electron Transistor with a Superconducting Island", J.M. Hergenrother, J.G. Lu, M.T. Tuominen, D.C. Ralph, and M. Tinkham, Physical Review B. Rapid Communications 51, 9407-9410 (1995).