

Journal Papers

Area	Year	Title	Authors	Journal	Vol.(No.)	Foreign/ Domestic	SCI
Nano	2005. 11	A New Multi-Valued (MV) Static Random Access Memory (SRAM) Cell with Single-Electron and MOSFET Hybrid Circuits	Y. S. Yoo, J. B. Choi, H. W. Kye et al.	IEE Electronics Letters,	Vol. 41 (24), pp. 1316-	Foreign	O
	2006. 03.	Single-electron Logic Cells and SET/FET Hybrid ICs	S. J. Kim, J. B. Choi, C. K. Lee et al.	J. Semicon Tech & Sci.	Vol 6 (1), pp51	Foreign	O
	2006. 06.	Si-based Coulomb blockade devices for spin-qubit logic gate	S. D. Lee, J. B. Choi, S J. Shin et al.	Appl. Phys. Lett,	in press 2006	Foreign	O
	2006	Fabrication of On-Chip Nanofluidic Channels by Using Sacrificial Photoresist Templated SiO ₂ Sputter Deposition	S. M. Kang, S. B. Lee, B. H. Park et al.	Journal of the Korean Physical Society	Vol. 48	Domestic	O
	2006	Effective Electrochemical Gating of Hole Transport in Aligned Single-Walled Carbon Nanotube Network Thin Film Transistors	B. H. Park, S. B. Lee, C. H. Lim et al.	Journal of the Korean Physical Society	Accepted	Domestic	O
	2006	Low energy electron beam microcolumn lithography	H. S. Kim, Y. C. Kim et al.	Microelectronic Engineering	Vol. 83	Foreign	O
	2006	Sub-60 nm Lithography Patterns by Low Energy Microcolumn Lithography	H. S. Kim, S. Ahn et al.	Journal of the Korean Physical Society	Accepted	Domestic	O
	2005	Transition from symmetric to asymmetric coercivity distribution in CoCrPt alloy films	M.-Y. Im, S.-C. Shin, D.-H. Kim	Physcial Review B	72(132416)	Foreign	O
	2005	Fabrication of a nanosized current-driven spin valve device using proximity correction in electron-beam lithogrpahy	H.J.Lee, K.H.Shin, N.T..H.Yen et al.	Journal of Vacuum Science & Technology B	23(339)	Foreign	O
	2005	Large magnetocurrents in double-barrier tunneling transistors	Lee, J.H., Lee, B.C., Rhie, K Jun et al.	J. Magn. Magn. Mater.	286(138)	Foreign	O
	2005	Enhancement of tunneling magnetoresistance by inserting an amorphous nonmagnetic FeZr layer in magnetic tunnel junctions	Lee, K. I., Lee, B. C., Rhie et al.	J. Magn. Magn. Mater.	286(158)	Foreign	O
	2005	X-ray photoelectron spectroscopy study of magnetic tunnel junctions	Lee, H.-J, Kang, J.-S., Rhie et al.	Journal of Applied Physics	97(033906)	Foreign	O
	2005	Room-Temperature Ferromagnetic Ordering in Mn-doped ZnO Thin Film Grown by Pulsed Laser Deposition	W.Y. Shim, W.Y. Lee, K. A. Jeon et al.	Journal of electronic material	23(339)	Foreign	O

Spin	2005	X-ray photoelectron spectroscopy study of magnetic tunnel junctions	Lee, H.-J., Kyung-Ho Shin, Rhie et al.	Journal of Applied Physics	97(033906-1)	Foreign	O
	2006	Real-time direct observation of temperature-dependent domain reversal behavior in epitaxial MnAs film on GaAs(001)	K.-S. Ryu, S.-C. Shin, Hiro Akinaga, Takashi Manago	Applied Physics Letters	88(122509)	Foreign	O
	2006	Magnetic configurations and magnetization reversal in the Co rings prepared by capillary force lithography	Sarah Kim, S.-C. Shin, J.R. Jeong et al.	-Journal of Applied Physics -Virtual Journal of Nanoscale Science and Technology	99(08H303) 13(18)	Foreign	O
	2006	Reduction of Switching Field in Spin-Flop Switching for High Density Magnetic Random Access Memory	K. S. Kim, K. H. Shin, S. H. Lim	Journal of Applied Physics	99(014502)	Foreign	O
	2006	A Novel Growth Method of Single-Crystalline Bi Nanowires	W.Y. .Shim, W.Y. Lee, K.I. Lee et al.	Electronic material letters	2(33)	Domestic	x
	2006	Reduction in critical current density of current induced magnetization switching	Kyung Jin Lee, Kyung-Ho Shin, T.H.Y.Nguyen	J. Magn. Magn. Mater.	in press	Foreign	O
	2006	Magnetoresistance near a Junction of positive and negative magnetic field region	Jinki Hong, Kyung-Ho Shin, S.Joo et al.	Applied Physics Letter	submitted	Foreign	O
Bio	2005.12	Creating functional nanostructured materials at the crossroad of physics, chemistry and materials	D. J. Kang, D. J. Kang, Dejian Zhou	Journal of Nanotechnology	2(4)	Foreign	x
	2006.2 submitted	Microwave Propagation on Acupuncture Channels	M. A. Krevsky, K. W. Yoon, Yuri Kshurin et al.	Acupuncture & Electro-Therapeutic Research		Foreign	O
	2006.2 submitted	Identification of pure-component spectra using independent-component analysis in glucose prediction	S. J. Han, K. W. Yoon	Applied Optics		Foreign	O
	2006.3 submitted	Characterization of DNA-containing Granules Flowing Through the Meridian-like System on the internal Organs of Rabbits	V Ogay, K. S. Soh, K. Y. Baik et al.	Acupuncture & Electro-therapeutic research		Foreign	O
	2006.04	Building Three-dimensional Nanostructures with Active Enzymes by Surface Templated Layer-by-layer Assembly	Rauf Sakandar, D. J. Kang, Zhou Dejian et al.	Chemical Communications	16	Foreign	O
	2006.5 accepted	Prediction of glucose in whole blood by near-infrared spectroscopy: the influence of wavelength region, preprocessing and hemoglobin concentration	Y. J. Kim, K. W. Yoon	Journal of Biomedical Optics		Foreign	O
	2006.5 submitted	Electron Microscopic Study of Novel Threadlike Structure on the Surfaces of Mammalian Organs	B. C. Lee, K. S. Soh, J. S. Yoo et al.	Microsc Res Tech		Foreign	O

2006.12 submitted	Use of magnetic nanoparticles to visualize threadlike structures inside lymphatic vessels of rats	H. M. Jeong, K. S. Soh, J. S. Yoo et al.	Evidence-Based Complementary and Alternative Medicine		Foreign	x
2006.2 submitted	Fluorescent magnetic nanoparticles tracing and magnetic resonance imaging controlled by permanent magnet at acupoints in hairless mice	C. H. Lee, K. S. Soh, W. S. Park et al.	J Control Release		Foreign	O

Proceedings

Area	Year	Title	Organization	Nation
Nano	2004	Guideline for the Worst Hot Carrier Stress Condition Using Substrate Current in a Body-Tied FinFET	The 11th Korean Conference on Semiconductors	Korea
	2005	Electrochemical gating of aligned single-walled carbon nanotube network field - effect transistors	MRS Spring meeting	USA
	2005	Negative Bias Temperature Instability in SOI and Body-Tied Double-Gate FinFET	VLSI Symposium	Japan
	2005.9	Photo-Mask Fabrication by Low Energy Microcolumn Lithography	EIPBN2006	USA
	2006	Sub-5nm all-around gate FinFET for ultimate Scaling	IEEE_VLSI Symposium	USA
	2006	Highly flexible and transparent single wall carbon nanotube network thin film on PDMS substrates	2006 Materials Research Society Spring meeting	USA
	2006	Nano floating-gate characteristics of colloidal Au nanoparticles electrostatically assembled on Si nanowire split-gate transistor	2006 The 50th international conference on Electron, Ion and Proton Beam and Nanofabrication	USA
	2006	Low Energy Electron Beam Microcolumn Lithography	MNE 2005	

	2006. 06.	SET-based Flexible Multi-valued NAND Logic gates	IEEE_Si Nanoelectronics Workshop	USA
	2006.08	Si-based Coulomb blockade devices for quantum Logic gates	SpintechIII 2005, Aug 1-5, Awaji Island, JAPAN (2005)	Japan
Spin	2004	Ferromagnetic ordering in Mn-doped ZnO thin films	The annual meeting of the Korean Magnetics Society	Korea
	2004	Study on the Growth of Thin Co Films on InP(001)(2x4) Reconstructed Surface	The annual meeting of the Korean Physical Society	Korea
	2004	Effects of annealing temperature on magnetic and structural properties of Co film on an InP substrate	The annual meeting of the Korean Physical Society	Korea
	2005	The effect of oxygen pressure on ferromagnetic ordering in Mn-doped ZnO thin films	The 2005 IEEE International Magnetic Conference	Japan
	2005.1	Magnetic configurations and magnetization reversal in the Co rings prepared by	Magnetism & Magnetic Materials	USA