

**List of Publications Of Prof. A.K. Raychaudhuri
(Up dated June 2013 in reverse chronological
order)**

2013

Rabaya Basori K. Das, Prashant Kumar, K.S.Narayan, A. K. Raychaudhuri

(2013) "Large photoresponse of Cu:TCNQ nanowire arrays formed as aligned nanobridges".

Appl. Phys. Lett. **102**, 061111 ;

Rajesh Kumar Neogy, A. K. Raychaudhuri

(2013) "Effect of stabilizer on dynamic thermal transport of nanofluids"

Nanoscale Research letters , **8**:125

Rajib Nath, A. K. Raychaudhuri, Ya. M. Mukovskii, Parthasarathi Mondal, Dipten
Bhattacharya and P. Mandal

**(2013) "Electric field driven destabilization of the insulating state in
nominally pure LaMnO₃**

Putul Malla Chowdhury, · Barnali Ghosh, · A.K.Raychaudhuri, · S.D.Kaushik, · V. Siruguri

(2013) “Stability of charge and orbital order in half-doped $Y_{0.5}Ca_{0.5}MnO_3$ nano crystallites”

J. Nanoparticle Research. **15**, 1585

Sudeshna Samanta, ꣳ K. Das and A. K. Raychaudhuri

(2013) “Low frequency 1/f flicker noise in a MSM device made with single Si Nanowire (diameter~50nm)”

Nanoscale Research letters, **8** 165

_Anis Biswas, Sayan Chandra, Tapas Samanta, Barnali Ghosh, Subarna Datta, M. H. Phan, A. K. Raychaudhuri, I. Das, and H. Srikanth,

(2013) “Universality in the entropy change for the inverse magnetocaloric effect” .

Phys. Rev B **87**, 134420

2012

S. Chandra , A.I. Figueroa , Barnali Ghosh , A.K. Raychaudhuri , M.H. Phan , P. Mukherjee , H. Srikanth .

(2012) "Fabrication and magnetic response probed by RF transverse susceptibility in La_{0.67}Ca_{0.33}MnO₃ nanowires".Physica B **407** 175-178

Sudeshna Samanta, A. K. Raychaudhuri, Ya. M. Mukhovskii

(2012) "Non-Gaussian resistance noise in the ferromagnetic insulating state of a hole doped manganite." Physical Review **85**, 045127

K. Das · S. Das · R. K. Singha · S. K. Ray · A. K. Raychaudhuri

(2012) "Preferential ordering of self-assembled Ge islands on focused ion-beam patterned Si(100)"

J Nanopart Res . **14**, 725

Tapati Sarkar, . M. Venkata Kamalakar and A.K.Raychaudhuri

(2012) "Electrical transport properties of nanostructured ferromagnetic perovskite oxides La_{0.67}Ca_{0.33}MnO₃ and La_{0.5}Sr_{0.5}CoO₃ at low temperatures (5 K > T > 0.3 K) and high magnetic field". New J. of Physics **14** 033026

M. Venkata Kamalakar and A. K. Raychaudhuri

(2012) “Temperature dependent ($3K \leq T \leq 300K$) electrical transport in Cu nanotubes grown in porous alumina templates.” ”. New J. of Physics **14** 043032.

Ruma Manda¹, Susmita Saha, Dheeraj Kumar, Saswati Barman, Semanti Pal, Kaustuv Das, Arup Kumar Raychaudhuri, Yasuhiro Fukuma, YoshiChika Otani and Anjan Barman

(2012) “Optically Induced Tunable Magnetization Dynamics in Nanoscale Co Antidot Lattices”

ACS NANO **6** 3397 .

Debdutta Lahiri, S. Khalid, Tapati Sarkar, A. K. Raychaudhuri and Surinder M. Sharma

(2012) “XAFS investigation of the role of orientational disorder in the stabilization of ferromagnetic metallic phase in nanoparticles of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ ” J.Phys.: Condensed Matter **24** 336001

Soma Biswas, A.K. Raychaudhuri, P.A. Sreeram, Dirk Dietzel

(2012) “Tuning the instability in Static Mode Atomic Force Spectroscopy as obtained in an AFM by applying an electric field between the tip and the substrate.” Ultramicroscopy **122** 19

Sayan Chandra , Anis Biswas , Subarna Dutta , Barnali Ghosh , V. Siruguri , A.K. Raychaudhuri , M.H. Phan and H. Srikanth

(2012) "Evidence of canted magnetic state in self-doped $\text{LaMnO}_{3+\delta}$ ($\delta \approx 0.04$): A magnetocaloric study ". *J.Phys.: Condensed Matter* **24 366004**

J P Naik , K. Das, P D Prewett , A K Raychaudhuri

(2012) "Liquid like instabilities in Gold Nanowires Fabricated by Focused Ion Beam Lithography"

Appl. Phys. Letts **101**, 163108

Anupam Giri; Nirmal Goswami,; M Bootharaju,.; Lourdu Paulrajpillai; , Robin John; Nguyen Thanh,; Thalappi Pradeep, ; Barnali Ghosh,; Arup Raychaudhuri,; Samir Pal,

(2012) "Emergence of Multicolor Photoluminescence in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Nanoparticles"

Journal of Physical Chemistry C **116**, 25623

2011

Sarathi Kundu and A. K. Raychaudhuri

(2011) "Effect of water and air-water interface on the structural modification of Ni-Arachidate Langmuir-Blodgett films ".Journal of Colloid and Interface Science **353**, 316

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(2011) "Observation of a large gate- controlled persistent photoconduction in single crystal ZnO at room temperatures". Appl Phys.Letts **98**, 023501

S. Chandra, Barnali Ghosh, A. K. Raychaudhuri, M. H. Phan and H. Srikanth

(2011) "Fabrication and Magnetic anisotropy study of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ nanowires"

J. Appl. Phys. **109**, 07D720

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(2011) "Field induced reversible control of visible luminescence from ZnO nanostructures"

Appl.Phys. Letts **98**, 153109

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(2011) “ Voltage bias induced modification of all oxide $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ / $\text{SrTi}_{0.95}\text{Nb}_{0.05}\text{O}_3$ junctions”

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(2011) “Ultrafast dynamics of excitons in semiconductor quantum dots on a plasmonically active nano-structured silver film”

Nanotechnology **22**, 195704

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(2011) “Instabilities in Focused Ion Beam-Patterned Au Nanowires”.

Microelectronic Engineering **88** , 2840

S. Das, K Das, R K Singha, S Manna, A Dhar, S K Ray and A K Raychaudhuri,

(2011) “Improved infra-red photoluminescence characteristics from circularly ordered self-assembled Ge islands”,

Nanoscale Research Letters 6, 416

Manotosh Chakravorty, Kaustuv Das, A.K.Raychaudhuri , J P Naik and P D Prewett

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Microelectronic Engineering **88**, 3360

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T Phanindra Sai and A K Raychaudhuri

(2010) “Observation of Peierls transition in nanowires (diameter ~130nm) of charge transfer molecule TTF:TCNQ synthesized by electric field directed growth” Nanotechnology **21** 045703

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(2010) “Stability and Dewetting of Metal Nanoparticles Filled Thin Polymer Films: Control of Instability Lengthscale and Dynamics”. ACS NANO **4** 3709

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Annihilation and Photoluminescence Spectroscopy". J.Appl. Phys. **108**,
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Kumar Pal

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J. Appl. Phys. **106**, 023905

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(2009) "Frequency dependent enhancement of heat transport in nanofluid with ZnO nanoparticles"

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(2009) "Transport Properties of Nanoparticles of Complex Oxides: Likely Presence of Coulomb Blockade at Low Temperature" Journal of

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(2009) "Investigation of Very Low-Frequency Noise in Ferromagnetic Nickel Nano wires"

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Manoranjan Ghosh, Nita Dilawar, A. K. Bandyopadhyay, and A. K. Raychaudhuri

(2009) "Phonon dynamics of Zn_{1-x} Mg,CdO alloy nanostructures and their phase segregation"

J. Appl. Phys. **106**, 084306

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(2009) "Critical Phenomena in Magnetic Nanowires",

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Journal of Experimental Nanoscience **4**, 177

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(2009) "Growth of Atomically Smooth Films of Metal-Arachidates by Langmuir-Blodgett Technique" Journal of Nanoscience and Nanotechnology

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