

Publications 2009:

1. Contribution of energy-gap in the ferromagnetic spin-wave spectrum on magnetocaloric parameters of CeRu_2Ge_2 : Tapas Samanta, I. Das and S. Banerjee; *J. Phys.: Condens. Matter*, **21**, 026010 (2009).
2. Colossal enhancement of magnetoresistance in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ thin films: possible evidence of electronic phase separation: Soumik Mukhopadhyay, I. Das and S. Banerjee; *J. Phys.: Condens. Matter* **21**, 026017 (2009).
3. ^{93}Nb NMR study of the charge density wave state in NbSe_2 : K Ghoshray, B Pahari, A Ghoshray, V V Eremenko, V A Sirenko and B H Suits, *J. Phys.: Condens. Matter*, **21**, 155701 (2009).
4. Low temperature conductivity in ferromagnetic manganite thin films: quantum corrections and inter-granular transport: Soumik Mukhopadhyay and I Das, *J. Phys.: Condens. Matter* **21**, 186004 (2009).
5. ^{75}As NMR study of oriented CeFeAsO and $\text{CeFeAsO}_{0.84}\text{F}_{0.16}$: A. Ghoshray, B. Pahari, M. Majumder, M. Ghosh, K. Ghoshray, B. Bandyopadhyay, P. Dasgupta, A. Poddar, and C. Mazumdar, *Phy. Rev.* **B79**, 144512 (2009).
6. Magnetic response of NiFe_2O_4 nanoparticles in polymer matrix, A. Poddar, R.N. Bhowmik, Amitabha De, Pintu Sen, *J. Magn. Magn. Mat.* **321**, 2015 (2009).
7. Synthesis, characterization, electrical transport and magnetic properties of PEDOT-DBSA- Fe_3O_4 conducting nanocomposite, Amitabha De, Pintu Sen, A. Poddar, A. Das, *Synthetic Metals*, **159**, 1002 (2009).
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10. Observation of giant magnetoresistance and reversal of its sign upon boron filling in cubic TbPd_3 : Abhishek Pandey, Chandan Mazumdar, R. Ranganathan, *Appl. Phys. Lett.* **94** (2009) 172509.
11. Magnetism in the ordered metallic perovskite compound $\text{GdPd}_3\text{B}_x\text{C}_{1-x}$: Abhishek Pandey, Chandan Mazumdar, R. Ranganathan and S. Dattagupta; *J. Magn. Magn. Mater.*, **321** (2009) 2311.
12. Effect of Pt on the superconducting and magnetic properties of $\text{ErNi}_2\text{B}_2\text{C}$: Chandan Mazumdar, L.C. Gupta, K. Nenkov, G. Behr and G. Fuchs, *J. Alloys Comp.*, **480** (2009) 190.
13. Magnetism of crystalline and amorphous $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ nanoparticles: R.N Bhowmik, Asok Poddar, R. Ranganathan and Chandan Mazumdar, *J. Appl. Phys.* **105**, 113909 (2009).

14. Millimeterwave spectrum and ab initio DFT calculation of the C-Gauche conformer of Allyl Isocyanate: A.I.Jaman and P.R.Bangal, *J. Mol. Spectrosc.* **255**, 134 (2009).
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17. Pressure and temperature-induced spin-state transition in single-crystalline $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ ($x=0.10$ and 0.33): K. Mydeen, P. Mandal, D. Prabhakaran, C.Q. Jin, *Phys. Rev. B* **80**, 014421 (2009).
18. ^{11}B and ^{195}Pt NMR study of heavy-fermion compound $\text{CePt}_2\text{B}_2\text{C}$: R. Sarkar, A. Ghoshray, B. Pahari, M Ghosh, K Ghoshray, B Bandyopadhyay, M Majumder, V K Anand, and Z Hossain, *J. Phys.: Condens Matter* **21**, 415602 (2009).
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24. Magnetic behavior of binary intermetallic compound YPd_3 : Abhishek Pandey, C. Majumdar, R. Ranganathan; *J. Alloys Comp.* **476** 14 (2009).
25. Millimeterwave spectrum of DC discharge produced ICN in excited vibrational states: P. R. Varadwaj and A. I. Jaman: *Ind. J. Phys.* **83**, 1323, 2009.
26. Magnetic frustration effect in Mn-rich $\text{Sr}_2\text{Mn}_{1-x}\text{Fe}_x\text{MoO}_6$ system, Asok Poddar and Chandan Mazumdar, *J. Appl. Phys.*, **106** (2009) 093908.

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