List of Publications

Articles are included in this thesis.

1. “Surface and exchange bias effect in nanocrystalline Cr₂O₃ and NiO”

2. “Glassy magnetic phase driven by short range charge and magnetic ordering in nanocrystalline La₁/₃Sr₂/₃FeO₃: Magnetization, Mossbauer, and polarized neutron studies”
3. “Influence of A-site ionic size, disorder, and orthorhombic distortion on magnetic and transport properties of Sm$_{0.5}$Ca$_{0.5-x}$Sr$_x$MnO$_3$”

Sk. Sabyasachi, A. Karmakar, S. Majumdar, S. Giri, S. Das, and V. S. Amaral,


4. “Critical phenomena in Pr$_{0.52}$Sr$_{0.48}$MnO$_3$ single crystal”


5. “Constricted double loop hysteresis and exchange bias attributed to the surface anisotropy in nanocrystalline La$_{1/3}$Sr$_{2/3}$Fe$_{1-x}$Cr$_x$O$_3$”


6. “Field Induced Phase Transition In Sm$_{0.5}$(Ca$_{0.5-x}$Sr$_x$)$_{0.5}$MnO$_3$”


**Articles Not Included in This Thesis:**

1. “Colossal magnetocapacitance near room temperature in ferromagnetic Cr$_2$O$_3$ film”

A. Ghosh, K. Dey, Sk. Sabyasachi, A. Karmakar, S. Majumdar, and S. Giri,

2. “Magnetic Memory Effects in Fe/γFe₂O₃ Nanostructures”


3. “Size effect on magnetic phase coexistence in Pr₀.₅Sr₀.₅Mn₁₋ₓCrₓO₃”


Articles Presented in Symposium/Conference:

1. “Exchange Bias Effect in La₁/₃Sr₂/₃Fe₁₋ₓCrₓO₃ Nanoparticles ”


2. “Field Induced Phase Transition In Sm₀.₅(Ca₀.₅₋ₓSrₓ)₀.₅MnO₃”