PARTIAL LIST OF PUBLICATION (Refereed International Journals)


9. Richa Sharma and R. P. Tandon, Study of microstructure, dielectric and ferromagnetic properties of the (1-x) Ba0.95Sr0.05TiO3 - (x) CoFe1.8Mn0.2O4 multiferroic composites, AIP Conference Proceedings 1661 (2015) 060008.
10 Richa Sharma, Vinamrita Singh, R. K. Kotnala, **R. P. Tandon**, Investigation on the effect of ferrite content on the multiferroic properties of \((1-x)\) \(\text{Ba}_{0.95}\text{Sr}_{0.05}\text{TiO}_3 - x\) \(\text{Ni}_{0.7}\text{Zn}_{0.2}\text{Co}_{0.1}\text{Fe}_2\text{O}_4\) ceramic composite, Materials Chemistry and Physics 160, 447-455 (2015).

11 Richa Sharma and **R. P. Tandon**, Study of microstructure, dielectric and magnetoelectric properties of the lead free co-fired \(\text{BaTiO}_3 - \text{CoZn}_{0.2}\text{Fe}_{1.8}\text{O}_4 - \text{BaTiO}_3\) trilayer composites, Journal of Materials Science: Materials in Electronics, 26 5287-5294 (2015).

12 Arti Gupta, **R. P. Tandon**, Organic–inorganic hybrid polyvinylidene fluoride–\(\text{Co}_{0.6}\text{Zn}_{0.4}\text{Mn}_{0.3}\text{Fe}_{1.7}\text{O}_4\) nanocomposite film with significant optical and magnetodielectric properties, RSC Advance 5, 10110 (2015).

13 Rajveer Singh, Vandna Luthra, R. S. Rawat, **R. P. Tandon**, Structural, dielectric and piezoelectric properties of \(\text{SrBi}_2\text{Nb}_2\text{O}_9\) and \(\text{Sr}_{0.8}\text{Bi}_{2.2}\text{Nb}_2\text{O}_9\) ceramics, Ceramic International 41 (3), 4468-4478 (2014).


15 Arti Gupta, **R. P. Tandon**, Synthesis and Characterization of \(\text{Co}_{0.6}\text{Zn}_{0.4}\text{Mn}_{0.3}\text{Fe}_{1.7}\text{O}_4\) Magnetic Nanoparticles, Mater. Res. Soc. Symp. Proc. 1708, (2014).

16 Arti Gupta, **R. P. Tandon**, Dielectric, magnetic and magnetoelectric studies on co-fired \(\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3 - \text{Co}_{0.6}\text{Zn}_{0.4}\text{Mn}_{0.3}\text{Fe}_{1.7}\text{O}_4\) bilayer composite, Materials Research Bulletin 61, 231–237 (2014).


21 Arti Gupta, R. P. Tandon, Dielectric and magnetoelectric properties of co-fired PbZr0.52Ti0.48O3–Co0.6Zn0.3Mn1.7O–PbZr0.52Ti0.48O3 trilayer composites, Journal of Material Science: Mater Electron 9, 4074 (2014).


26 Richa Sharma, Poonam Pahuja, R. P. Tandon, Structural, dielectric, ferromagnetic, ferroelectric and ac conductivity studies of the BaTiO3–CoFe1.8Zn0.2O4 multiferroic particulate composites, Ceramics International 40, 9027 (2014).


30 Poonam Pahuja, Chandra Prakash, R. P. Tandon, Comparative study of magnetoelectric composite system $\text{Ba}_{0.95}\text{Sr}_{0.05}\text{TiO}_3$ – $\text{Ni}_{0.8}\text{Co}_{0.2}\text{Fe}_2\text{O}_4$ with ferrite prepared by different methods, Ceramics International 40(4), 5731 (2014).

31 Anuj Kumar, R. P. Tandon and V. P. S. Awana, Spin dynamics, short-range order and superparamagnetism in superconducting ferromagnet $\text{RuSr}_2\text{Gd}_{1.4}\text{Ce}_{0.6}\text{Cu}_2\text{O}_{10-\delta}$, Journal of Magnetism and Magnetic Materials 349, 224–231 (2014).


35 Poonam Pahuja, Richa Sharma, Chandra Prakash, R. P. Tandon, Synthesis and characterization of $\text{Ni}_{0.8}\text{Co}_{0.2}\text{Fe}_2\text{O}_4$- $\text{Ba}_{0.95}\text{Sr}_{0.05}\text{TiO}_3$ multiferroic composites, Ceramics International 39, 9435–9445 (2013).


39 Anuj Kumar, **R. P. Tandon** and V. P. S. Awana, Spin glass and cluster ferromagnetism in RuSr$_2$Y$_{1.5}$Ce$_{0.5}$Cu$_2$O$_{10}$ magneto-superconductor synthesized by HPHT, Cryogenics 52 (12), 764-766 (2012).


41 Anuj Kumar, **R. P. Tandon** and V. P. S. Awana, Successive spin glass, cluster ferromagnetic, and superparamagnetic transitions in RuSr$_2$Y$_{1.5}$Ce$_{0.5}$Cu$_2$O$_{10}$ complex magneto-superconductor, European Physical Journal B 85, 238 (1-10) (2012).


45 Anuj Kumar, **R. P. Tandon**, Jianli Wang, Rong Zeng and V. P. S. Awana, Crossing point phenomena ($T^* = 2.7$ K) in specific heat curves of superconducting ferromagnets RuSr$_2$Gd$_{1.4}$Ce$_{0.6}$Cu$_2$O$_{10-\delta}$, Journal of Applied Physics 111, 07E140 (2012).


50 Anuj Kumar, Anand Pal, **R. P. Tandon** and V. P. S. Awana, Role of interstitial “caged” Fe in the superconductivity of FeTe$_{1/2}$Se$_{1/2}$, Solid State Communications 151, 1767-170 (2011).


52 Anuj Kumar, **R.P. Tandon**, and V.P.S. Awana, Study of spin glass and cluster ferromagnetism in RuSr$_2$Eu$_{1.4}$Ce$_{0.6}$Cu$_2$O$_{10-δ}$, Journal of Applied Physics 110, 043926 (2011).


58 Anuj Kumar, Bhaskar Gahtori, Ashok Rao, Y. K. Kuo, Shahnawaz, V. P. S. Awana and **R. P. Tandon**, Magnetic and Thermal Behavior of Ru$_{0.9}$Sr$_2$YC$_{2.1}$O$_{7.9}$ Magneto-Superconductor Synthesized by High-Pressure High-Temperature Technique; J. Supercond Nov Magn 24, 1643 (2011).


73 Shripal, Geetika, Rakesh Singh R. P. Tandon, Preparation and characterization of some manganese doped layered Na$_{1.86}$Li$_{0.10}$K$_{0.04}$Ti$_3$O$_7$ ceramics, Integrated Ferroelectrics, Integrated Ferroelectrics 120 (1), 18 – 27 (2010).

74 Shripal, L. N.Pandey, D.C. Dwivedi, Rakesh Singh and R. P. Tandon, Dielectric-spectroscopic and a.c. conductivity investigations on layered k$_{1.9}$Rb$_{0.1}$Ti$_4$O$_9$ ceramic, Integrated Ferroelectrics 120 (1), 28 – 36 (2010).


Vandna Luthra, Keith F.E. Pratt, Ivan P. Parkin, David E. Williams, **R. P. Tandon**, Fabrication and Characterization of Fe_{1.90}Ti_{0.10}O_{3} Gas Sensitive Resistors for Carbon Monoxide, Sensors and Actuators B: Chemical 135 (2), 430-435 (2009).


P. Kumar, H. Kumar, S. Chand, S. C. Jain, V. Kumar, V. Kumar, R. P. Pant, and **R. P. Tandon**, Effect of CoFe magnetic nanoparticles on the hole transport in poly(2-methoxy, 5-(2-ethylhexiloxy) 1,4-phenylenevinylene), Journal of Physics D: Applied Physics 41 (18), 185104 (2008).


101 D. Pal, Prem Chand, R. P. Tandon, and Shripal: EPR and electrical studies in layered $Na_{1.9}Li_{0.1}Ti_3O_7$ and its copper doped derivates 49(60) 560 (2005).


R. Singh, R. P. Tandon and S. Chandra, Evidence of small polaron formation in


