

PARTIAL LIST OF PUBLICATION (Referred International Journals)

- 1 Swati Arora, Vinamrita Singh, Manoj Arora, **Ram Pal Tandon**, Improving P3HT:PCBM Based Polymer Solar Cell: Role of Doped PEDOT:PSS Hole Extracting Layer Towards Degradation, Photovoltaic Specialist Conference (PVSC), 2014 IEEE 40th, pg. 2557-2560
- 2 Deepak Kumar, Poornendu Chaturvedi, Abhilasha Chouksey, **R. P. Tandon** and Partap K Chaudhury, Investigation of Single wall nanotube gas sensor recovery behavior in the presence of UV: Advanced Materials Letters-Accepted Manuscript
- 3 Raj Kumar Gupta, Richa Sharma, Ajit K. Mahapatro, **R.P. Tandon**, The effect of ZrO₂ dispersion on the thermoelectric power factor of Ca₃Co₄O₉ Physica B: Condensed Matter: Volume 483, 15 February 2016, Pages 48–53
- 4 Vishal Sharma, Vinamrita Singh, Manoj Arora, Swati Arora, and **R. P. Tandon**, Degradation analysis of PCDTBT:PC71BM organic solar cells- an insight, Current Applied Physics, Accepted Manuscript.
- 5 V. K. Sachdev, Surender Kumar Sharma, S. Bhattacharya, K. Patel, N. C. Mehra, **R. P. Tandon**, Electromagnetic Shielding Performance of Graphite in Cement Matrix for Applied Application, Advanced Materials Letters, 6: 965-972 (2015).
- 6 Vishal Sharma, Vinamrita Singh, Manoj Arora, Swati Arora, and **R.P. Tandon**, Bulk-heterojunction solar cells with different active layer blends: comparison of experimental and theoretical results, Advanced Materials Letters, Accepted Manuscript.
- 7 Vishal Sharma, Vinamrita Singh, Manoj Arora, Swati Arora, and **R.P. Tandon**, Influence of donor-acceptor materials on the photovoltaic parameters of conjugated polymer/fullerene solar cells, Journal of Materials Science: Materials in Electronics, 26:6212–6217 (2015).
- 8 Poonam Pahuja and **R. P. Tandon**, Microstructural, dielectric and magnetic properties of multiferroic composite system barium strontium titanate – nickel cobalt ferrite, AIP Conference Proceedings 1661, 060004 (2015).
- 9 Richa Sharma and **R. P. Tandon**, Study of microstructure, dielectric and ferromagnetic properties of the (1-x) Ba_{0.95}Sr_{0.05}TiO₃ - (x) CoFe_{1.8}Mn_{0.2}O₄ 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).
- 14 Poonam Pahuja, Richa Sharma, Vinamrita Singh, **Ram Pal Tandon**, Novel method of synthesis of multiferroic Nickel Cobalt Ferrite – Barium Strontium Titanate composite system, *International Journal of Applied Ceramic Technology* 12, E156–E163 (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).
- 17 Surender Kumar Sharma, **Ram P Tandon** and V. K. Sachdev, Pre-localized MWCNT network for low percolation threshold in MWCNT/ABS nanocomposites: experiment and theory, *RSC Adv.* 4, 60733-60740 (2014).
- 18 Vinamrita Singh, Swati Arora, Manoj Arora, Vishal Sharma, and **R. P. Tandon**, Optimizing P3HT/PCBM/MWCNT films for increased stability in polymer bulk heterojunction solar cells, *Physics Letters A* 378, 3046 (2014).
- 19 Prikshit Gautam, Sushil K. Singh, **R. P. Tandon**, Dielectric Functions and Energy Band Gap Variation Studies of Manganese doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ Thin Films using Spectroscopic Ellipsometry, *Journal of Alloys and Compounds* 617, 374 (2014).

- 20 Poonam Pahuja, R. K. Kotnala, **R. P. Tandon**, Effect of rare earth substitution on properties of barium strontium titanate ceramic and its multiferroic composite with nickel cobalt ferrite, *Journal of Alloys and Compounds* 617,140 (2014).
- 21 Arti Gupta, **R. P. Tandon**, Dielectric and magnetoelectric properties of co-fired $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3\text{-Co}_{0.6}\text{Zn}_{0.4}\text{Mn}_{0.3}\text{Fe}_{1.7}\text{O-PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ trilayer composites, *Journal of Material Science: Mater Electron* 9, 4074 (2014).
- 22 N. Sharma, P. Aghamkar, S. Kumar, M. Bansal, Anju, **R.P. Tandon**, Study of structural and magnetic properties of Nd doped zinc ferrites *Journal of Magnetism and Magnetic Materials* 369, 162–167 (2014).
- 23 Rakesh K. Mishra, Raman Kashyap, A. G. Vedeshwar and **R. P. Tandon**, Structural and optical properties of Sb_2S_3 nanocrystals in glass, *AIP Conf. Proc.* 1591, 327 (2014).
- 24 Prikshit Gautam, Sushil K. Singh, **R. P. Tandon**, Mechanism for leakage current conduction in manganese doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ (BLT) ferroelectric thin films, *Journal of Alloys and Compounds* 606, 132–138 (2014).
- 25 Vinamrita Singh, Swati Arora, Manoj Arora, Vishal Sharma, and **R.P. Tandon**, Characterization of doped PEDOT:PSS and its influence on the performance and degradation of organic solar cell, *Semiconductor Science and Technology* 29, 1 (2014).
- 26 Richa Sharma, Poonam Pahuja, **R. P. Tandon**, Structural, dielectric, ferromagnetic, ferroelectric and ac conductivity studies of the $\text{BaTiO}_3\text{-CoFe}_{1.8}\text{Zn}_{0.2}\text{O}_4$ multiferroic particulate composites, *Ceramics International* 40, 9027 (2014).
- 27 Rakesh K Mishra, A G Vedeshwar, and **R P Tandon**, Optical absorption, photoluminescence and structural analysis of CdS quantum dots in weak confinement, *Physica Scripta* 89, 025701 (2014).
- 28 Virendra Kumar Sachdev, Sudeshna Bhattacharya, Kamlesh Patel, Surender Kumar Sharma, Navin Chand Mehra, **Ram Pal Tandon**, Electrical and EMI shielding characterization of multiwalled carbon nanotube/polystyrene composites. *J. Appl. Polym. Sci.* 131, 40201 (1-9) (2014).
- 29 Vikash Singh, Subhash Sharma, R. K. Dwivedi, Manoj Kumar, R. K. Kotnala, N.C. Mehra, **R. P. Tandon**, Structural, Dielectric, Ferroelectric and Magnetic Properties of $\text{Bi}_{0.80}\text{A}_{0.20}\text{FeO}_3$ (A = Pr, Y) Multiferroics. *Journal of Superconductivity and Novel Magnetism* 26, 657–661 (2013).

- 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).
- 32 Rakesh K Mishra, A. G. Vedeshwae, **R. P. Tandon**, Sb_2S_3 quantum dots: diffusion-controlled growth and characterization, *Physica Status Solidi (RRL) - Rapid Research Letters* 11, 975 (2013).
- 33 Monika Shahi, Seema Gautam, Preeti V. Shah, P Jha, P Kumar, J. Rawat, P K Chaudhury, Dr. Harsh, and **Ram Pal Tandon**, Effect of purity, edge length and growth area on field emission of multi-walled carbon nanotube emitter arrays, *Journal of Applied Physics*, 113, 204 (2013).
- 34 Monika Shahi, S. Gautam, P. V. Shah, J. S. Rawat, P. K. Chaudhury, Harsh, **R. P. Tandon**, Decoration of cesium iodide nano particles on patterned carbon nanotube emitter arrays to improve their field emission, *Journal of Nanoparticle Research*, 15, 1497 (2013).
- 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).
- 36 Monika Kumari, S. Gautam, P. V. Shah, S. Pal, U. S. Ojha, A. Kumar, A. A. Naik, J. S. Rawat, P. K. Chaudhury, Harsh, and **R. P. Tandon**, Improving the field emission of carbon nanotubes by lanthanum-hexaboride nano-particles decoration, *Appl. Phys. Lett.* 101, 123116 (2012).
- 37 Vinamrita Singh, Swati Arora, P. K. Bhatnagar, Manoj Arora and **R. P. Tandon**, Degradation in bulk heterojunction organic solar cells: changes in electrode interface and reduction in the occupation probability of the interface states, *Journal of Polymer Research* 19, 9899 (2012).
- 38 Avanish Pratap Singh, Parveen Garg, Firoz Alam, Kuldeep Singh, R.B. Mathur, **R.P. Tandon**, Amita Chandra, S.K. Dhawan, Phenolic resin-based composite sheets filled with mixtures of reduced graphene oxide, $\gamma\text{-Fe}_2\text{O}_3$ and carbon fibers for excellent electromagnetic interference shielding in the X-band, *Carbon* 50, 3868-3875 (2012).

- 39 Anuj Kumar, **R. P. Tandon** and V. P. S. Awana, Spin glass and cluster ferromagnetism in $\text{RuSr}_2\text{Y}_{1.5}\text{Ce}_{0.5}\text{Cu}_2\text{O}_{10}$ magneto-superconductor synthesized by HPHT, *Cryogenics* 52 (12), 764-766 (2012).
- 40 Raman Kashyap, R. K. Mishra, O. P. Thakur, **R. P. Tandon**, Structural, Dielectric Properties and Electrical Conduction Behaviour of Dy Substituted $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics, *Ceramics International* 38, 6807 (2012).
- 41 Anuj Kumar, **R. P. Tandon** and V. P. S. Awana, Successive spin glass, cluster ferromagnetic, and superparamagnetic transitions in $\text{RuSr}_2\text{Y}_{1.5}\text{Ce}_{0.5}\text{Cu}_2\text{O}_{10}$ complex magneto-superconductor, *European Physical Journal B* 85, 238 (1-10) (2012).
- 42 Rakesh Kumar Mishra, Agnikumar G. Vedeshwar, and **Ram Pal Tandon**, The role of glass-viscosity on the growth of semiconductor quantum dots in glass matrices, *Journal of Applied Physics* 111, 094315 (2012).
- 43 Chitra Vaid, Sevi Murugavel, Raman Kashyap, **Ram Pal Tandon**, Synthesis and in vitro bioactivity of surfactant template mesoporous sodium silicate glasses, *Microporous and Mesoporous Materials* 159, 17–23 (2012).
- 44 Anuj Kumar, Rajveer Jha, Shiva Kumar Singh, Jagdish Kumar, P. K. Ahluwalia, **R. P. Tandon**, and V. P. S. Awana, Superconductivity in the vicinity of ferromagnetism in oxygen free perovskite MgCNi_3 : An experimental and density functional theory study, *Journal of Applied Physics* 111, 033907 (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 $\text{RuSr}_2\text{Gd}_{1.4}\text{Ce}_{0.6}\text{Cu}_2\text{O}_{10-\delta}$, *Journal of Applied Physics* 111, 07E140 (2012).
- 46 Vinamrita Singh, Swati Arora, P. K. Bhatnagar, Manoj Arora, and **R. P. Tandon**, Effects of aging on the mobility and lifetime of carriers in organic bulk heterojunction solar cells, *Journal of renewable and sustainable energy* 3, 063111 (2011).
- 47 Raman Kashyap, O. P. Thakur and **R. P. Tandon**, Study of Structural, Dielectric and Electrical Conduction Behaviour of Gd Substituted $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics, *Ceramic International*, 38 (4), 3029 (2012).
- 48 Vinamrita Singh, Swati Arora, Promod Kumar Bhatnagar, Manoj Arora, **Ram Pal Tandon**, An anomalous behaviour in degraded bulk heterojunction organic solar cells, *Physica Scripta*, 84, 065803 (2011).

- 49 Anupama Sachdeva, **R.P. Tandon**, Effect of sol composition on dielectric and ferroelectric properties of PZT composite films, *Ceramic International* 38, 1331 (2012).
- 50 Anuj Kumar, Anand Pal, **R. P. Tandon** and V. P. S. Awana, Role of interstitial “caged” Fe in the superconductivity of $\text{FeTe}_{1/2}\text{Se}_{1/2}$, *Solid State Communications* 151, 1767-1770 (2011).
- 51 Swati Arora, Vinamrita Singh, Manoj Arora and **Ram Pal Tandon**, Evaluating Effect of Surface State Density at the Interfaces in Degraded Bulk Heterojunction Organic Solar Cell, *Physica B* 407 (15), 3044-3046 (2012).
- 52 Anuj Kumar, **R.P. Tandon**, and V.P.S. Awana, Study of spin glass and cluster ferromagnetism in $\text{RuSr}_2\text{Eu}_{1.4}\text{Ce}_{0.6}\text{Cu}_2\text{O}_{10-\delta}$, *Journal of Applied Physics* 110, 043926 (2011).
- 53 Sahil Dhawan, A. G. Vedeshwar, and **R. P. Tandon**, Correlation of Optical energy gap with the nearest neighbor short range order in amorphous V_2O_5 Films, *Journal of Physics D: Applied Physics* 44, 215404 (2011).
- 54 Swati Arora, Satish Kumar Rajouria, Pankaj Kumar, P K Bhatnagar, Manoj Arora and **R P Tandon**, Role of donor–acceptor domain formation and interface states in initial degradation of P3HT:PCBM-based solar cells, *Phys. Scr.* 83, 035804 (2011).
- 55 Anupama Sachdeva, Mahesh Kumar, Vandna Luthra, **R. P. Tandon**, Phase evolution studies of sol–gel derived lead zirconate titanate (PZT) nanopowder using X-ray diffraction and X-ray photoelectron spectroscopy; *Applied Physics A: Materials Science & Processing*, 104, 103 (2011).
- 56 Raman Kashyap, O. P. Thakur, N. C. Mehra and **R. P. Tandon**, Effect of Processing Conditions on the Dielectric Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics, *International Journal of Modern Physics B* 25 (8), 1049–1059 (2011).
- 57 V. K. Sachdev, K. Patel, S. Bhattacharya, **R. P. Tandon**, Electromagnetic Interference Shielding of Graphite/Acrylonitrile Butadiene Styrene Composites; *Journal of Applied Polymer Science*, 120, 1100–1105 (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 $\text{Ru}_{0.9}\text{Sr}_2\text{YCu}_{2.1}\text{O}_{7.9}$ Magneto-Superconductor Synthesized by High-Pressure High-Temperature Technique; *J. Supercond Nov Magn* 24, 1643 (2011).

- 59 Roshan Kshetrimaym, R. D. S. Yadava, and **R. P. Tandon**, Modeling electrical response of polymer – coated SAW resonators by equivalent circuit representation, *Ultrasonics* 51(5), 547 (2011).
- 60 Raman Kashyap, Tanuj Dhawan, Prikshit Gautam, O. P. Thakur, N. C. Mehra, **R. P. Tandon**, Effect of Processing Conditions on Electrical Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics: *Modern Physics Letters B* 24 (12), 1267–1273 (2010).
- 61 *Prikshit Gautam, S. Bhattacharyya, Sushil K. Singh, Ravi Kumar, R. P. Tandon, Effect of zirconium doping on ferroelectric properties and leakage current mechanism in $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ (BLT) thin films, Physica status solidi – B* 248 (4), 1010 (2011).
- 62 *Prikshit Gautam, S. Bhattacharyya, Sushil K. Singh, R. P. Tandon, Mechanism of leakage current conduction in Silicon doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ (BLT) thin films prepared by sol gel method”, International Journal of Modern Physics – B* (2010).
- 63 *Tanuj Dhawan, A. G. Vedeshwar, V. N. Singh, B. R. Mehta, and R. P. Tandon, Quantum confinement in Amorphous InSb, Scripta Materialia*, 63, 97 – 100 (2010).
- 64 Anupama Sachdeva, Prikshit Gautam, Vandna Luthra , **R. P. Tandon**, Structural and Electrical Properties of Lead Zirconate Titanate 0-3 composite films, *Integrated Ferroelectrics*, 122, 1, 134 - 143 (2010).
- 65 Prikshit Gautam, Anupama Sachdeva, Sushil K Singh, Manoj Arora, **R P Tandon**, Dielectric functions of Niobium doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ thin films using spectroscopic ellipsometry, *Integrated Ferroelectrics*, 122 (1), 126 – 133 (2010).
- 66 *Tanuj Dhawan, Renu Tyagi, Rajesh Kumar Bag, Mahavir Singh, Premila Mohan, T. Haldar, R. Murlidharan, and R. P. Tandon, Growth of InAs Quantum Dots on Germanium Substrate Using Metal Organic Chemical Vapor Deposition Technique, Nanoscale Res. Lett.*, 5 (1) 31 -37 (2010).
- 67 Tanuj Dhawan, A. G. Vedeshwar and **R. P. Tandon**, Growth of Nanostructured Amorphous InSb by Vacuum Thermal Evaporation, *Integrated Ferroelectrics* 122 (1), 119 – 125 (2010).
- 68 Manju Arora, Anupama Sachdeva, Vandna Luthra, **R. P. Tandon**, R.P. Pant Sol-gel Derived Nanocrystalline Lanthanum Doped Lead Zirconate Titanate Thin Films Studied for Solitary Waves Propagation, *Integrated Ferroelectrics* 122 (1), 144 – 151 (2010).

- 69 Raman Kashyap, Tanuj Dhawan, M. K. Arora, O. P. Thakur and **R. P. Tandon**, Electrical conduction behaviour of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics with different sintering times, *Integrated Ferroelectrics* 122 (1), 108 – 113 (2010).
- 70 Tanuj Dhawan, Renu Tyagi, Rajesh Kr. Bag, and **R. P. Tandon**, Growth of Uniform and Self – Aligned InAs Quantum Dots on Vicinal (100) GaAs Substrate by Metal Organic Chemical Vapor Deposition Technique for Laser applications, *Integrated Ferroelectrics* 119 (1), 143 – 150 (2010).
- 71 Prikshit Gautam, S. Bhattacharyya, Sushil K Singh, **R P Tandon**, Fabrication and Characterization of Bismuth Lanthanum Titanate ($\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$) thin films for FeRAM devices, *Integrated Ferroelectrics* 122 (1), 63 – 73 (2010).
- 72 Anupama Sachdeva, Vandna Luthra, Prikshit Gautam, **R. P. Tandon**, Dielectric and ferroelectric studies on sol-gel derived calcium modified lead zirconate titanate ceramics, *Integrated Ferroelectrics* 122 (1), 74 – 82 (2010).
- 73 Shripal, Geetika, Rakesh Singh **R. P. Tandon**, Preparation and characterization of some manganese doped layered $\text{Na}_{1.86}\text{Li}_{0.10}\text{K}_{0.04}\text{Ti}_3\text{O}_7$ 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 $\text{k}_{1.9}\text{Rb}_{0.1}\text{Ti}_4\text{O}_9$ ceramic, *Integrated Ferroelectrics* 120 (1), 28 – 36 (2010).
- 75 *Roshan Kshetrimayum, R D S Yadava and R. P. Tandon*, **Mass sensitivity analysis and designing of surface acoustic wave resonators for chemical sensors**, *Meas. Sci. Technol.* 20, 055201(2009).
- 76 Anupama Sachdeva, Manju Arora and **R. P. Tandon**, Synthesis and Characterization of Sol – Gel Derived PZT Nano Powder, *Journal of Nanoscience and Nanotechnology* 9, 6631 – 6636 (2009).
- 77 P. Kumar, S.C. Jain, V. Kumar, S. Chand, **R. P. Tandon**, **A model for the current-voltage characteristics of organic bulk heterojunction solar cells**, *Journal of Physics D: Applied Physics* 42 (5), 055102 (2009).
- 78 Sanjeev Kumar, Gil-Ho Kim, K. Sreenivas, and **R.P. Tandon**, ZnO based surface acoustic wave ultraviolet photo sensor, *Journal of Electroceramics* 22 (1-3), 198-202 (2009).

- 79 P. Kumar, S. C. Jain, V. Kumar, S. Chand, **R. P. Tandon**, **Effect of non-zero Schottky barrier on the J - V characteristics of organic diodes**, European Physical Journal E 1-8 (2009).
- 80 S. Bhattacharya, **R. P. Tandon**, V. K. Sachdev, **Electrical conduction of graphite filled high density polyethylene composites; Experiment and theory**, Journal of Materials Science 44 (9), 2430-2433 (2009).
- 81 Vandna Luthra, Keith F.E. Pratt, Ivan P. Parkin, David E. Williams, **R. P. Tandon**, **Fabrication and Characterization of $\text{Fe}_{1.90}\text{Ti}_{0.10}\text{O}_3$ Gas Sensitive Resistors for Carbon Monoxide**, Sensors and Actuators B: Chemical 135 (2), 430-435 (2009).
- 82 Pankaj Kumar, S. C. Jain, Vikram Kumar, Suresh Chand, and **R. P. Tandon**, **Effect of illumination on the space charge limited current in organic bulk heterojunction diodes**, Applied Physics A: Materials Science and Processing 94 (2), 281-286 (2009).
- 83 M. N. Girirya, C. L. Khobaragade, N. M. Patil, K. G. Rewatkar and **R. P. Tandon**, **Structural Analysis and Magnetic Properties of Substituted Ca-Sr Hexaferrites**, Solid State Ionics 3 (10), 1224 (2012).
- 84 S. Bhattacharya, V. K. Sachdev, R. Chatterjee, **R. P. Tandon**, **Decisive properties of graphite – filled cement composites for device applications**, Appl. Phys. A 92, 417–420 (2008).
- 85 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-ethylhexyloxy) 1,4-phenylenevinylene)**, Journal of Physics D: Applied Physics 41 (18), 185104 (2008).
- 86 Pankaj Kumar, A. Mishra, R. Bhardwaj, M. N. Kamalasanan, Suresh Chand, S. C. Jain, **R. P. Tandon**, **Synthesis and characterization of some 5 – coordinated aluminum – 8 – hydroxyquinoline derivatives for OLED applications**, Displays 29 (4), 351 (2008).
- 87 Pankaj Kumar, Suresh Chand, S. C. Jain, Vikram Kumar, **R. P. Tandon**, **Trap filled limit and high current – voltage characteristics of organic diodes with non – zero Schottky barrier**, Journal of D: Applied Physics 41 (15), 155108 (2008).
- 88 Pankaj Kumar, S. C. Jain, Vikram Kuamr, Suresh Chand, M. N. Kamalasanam, **R. P. Tandon**, **Study of electron mobility in small molecular SAIq by transient electroluminescence method**, Journal of D: Applied Physics 40 (23), 7313-7317 (2007).

- 89 Sanjeev Kumar, Gil-Ho Kim, K. Sreenivas, and **R. P. Tandon**, Mechanism of ultraviolet photoconductivity in zinc oxide nanoneedles, *Fast Track Communication: Journal Physics: Condensed matter*, 19 (47) 472202 (2007).
- 90 Roshan Kshetrimayum, Mamta Khaneja, **R. P. Tandon**, and R. D. S Yadava, SAW interdigital transducer designs for multiple frequency oscillators and sensors, *J. Pure Appl. Ultrason.* 29 46-53 (2007).
- 91 R. B. Mathur, Priyanka H. Maheshwari, T. L. Dhama, **R. P. Tandon**, Characteristics of the carbon paper heat treated to different temperatures and its influence on the performance of PEM fuel cell. *Electrochimica Acta* 52, 4809-4817 (2007).
- 92 M. R. Tripathy, R. Joshi, N.C. Mehra, S. Kumar, and **R. P. Tandon**, Electrical Conduction and Gas Sensing Characteristics of $15\text{Fe}_2\text{O}_3 - 5\text{ZnO} - 80\text{TeO}_2$, *Materials Letters*, 61 (2) 585 (2007).
- 93 Ravi Kumar, Fouran Singh, Basavaraj Angadi, Ji-Won Choi, Won-Kook Choi, Kwangho Jeong, Jong-Han Song, M. Wasi Khan, J. P. Srivastava, Ajay Kumar and **R. P. Tandon**, Single phase formation of Co-implanted ZnO thin films by swift heavy ion irradiation: Optical studies, *J. Appl. Phys.* 100, 113708 (2006).
- 94 Atul Gupta, H. S. Bhatti, D. Kumar, N. K. Verma, **R. P. Tandon**, Nano and bulk crystal of ZnO: Growth and characterization, *Digest Journal of Nanomaterials and Biostructures* 1, 1 (2006).
- 95 S. Barazzouk P, **R. P. Tandon** and S. Hotchandani, MoO_3 -based sensor for NO , NO_2 and CH_4 detection, *Sensors and Actuators B* 119 (2), 691 (2006).
- 96 Pal D, **R P Tandon** and Shripal, Correlation between EPR, dielectric spectroscopic and conductivity studies of lithium substituted $\text{Na}_2\text{Ti}_3\text{O}_7$ ceramic: *Indian Journal of Pure and Applied Physics* 44, 435 (2006).
- 97 R. Sharma, K. Suri, **R. P. Tandon**, S. Annapoorni, S. Lamba, and B. V. Kumaraswami, Magnetic relaxation studies in organic-inorganic nanoclusters, *J. Appl. Phys.* 99 (2), 1 (2006).
- 98 **R. P. Tandon**, M. R. Tripathy, and S. Hatchandani, Gas and humidity response of iron oxide - Polypyrrole nanocomposites, *Sensors and Actuators B* 114, 768 (2006).

- 99 A.Kumar, M. R.Tripathy, and **R. P. Tandon**, Effect of γ irradiation on oxygen content and kinetic parameters of high Tc $Y1Ba_2Cu_3O_7 - \delta$ superconductors, *Materials Chemistry and Physics* 97 230 (2006).
- 100 **R. P. Tandon**, Chiang Mai, Smart materials and their applications in oceanography automotive and aerospace industries, *J. Sci.* 32(3), 223 (2005).
- 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 derivatives 49(60) 560 (2005).
- 102 R. Tickoo, **R. P. Tandon**, K. K. Banzai & P. N. Kotru, Indentation induced testing studies on lanthanum modified lead titanate ceramics, *Materials Science and Engineering B: Solid-State Materials for Advanced Technology* 110 (2), 177-184 (2004).
- 103 R. Tickoo, **R. P. Tandon**, V. K. Hans, K. K. Banzai & P. N. Kotru, Electrochemical & piezoelectric studies of La modified lead titanate ceramics, *Mat. Sc. & Engg.*, 100 47 (2003).
- 104 R. Tickoo, **R. P. Tandon**, K. K. Bamzai & P. N. Kotru, Micro indentation studies on samarium-modified lead titanate ceramics, *Mat. Chem. & Phys.* 80, 446 (2003).
- 105 R. Tickoo, **R. P. Tandon**, K. K. Banzai & P. N. Kotru, Dielectric and Piezoelectric characterization of samarium modified lead titanate ceramics, *Materials Science and Engineering B: Solid-State Materials for Advanced Technology* 103 (2), 145-151 (2003).
- 106 **R. P. Tandon** and S. Hotchandani, Dielectric and piezoelectric properties of a novel piezo composite, *Journal of Advanced Materials* 35 (3), 9-12 (2003).
- 107 K. Suri, S. Annapoorni, **R. P. Tandon**, C. Rath, and V. K. Aggarwal, Thermal transition behavior of iron oxide – polypyrrole nanocomposites, *Current Applied Physics* 3 (2-3), 209-213 (2003).
- 108 Komila Suri, S. Annapoorni & **R. P. Tandon**, AC conduction in nanocomposites of polypyrrole, *Jr. of Non-crystalline solids*, 332, 279 (2003).
- 109 Komila Suri, S. Annapoorni, **R. P. Tandon** and N. C. Mehra, Nanocomposite of Polypyrrole-iron oxide by simultaneous gelation and polymerization, *Synthetic Metals* 126 (2-3), 137-142 (2002).

- 110 Komila Suri, S. Annapoorni, A. K. Sarkar and **R. P. Tandon**, Gas and humidity sensors based on iron oxide – polypyrrole nanocomposites, *Sensors and Actuators, B: Chemical* 81 (2-3), 277-282 (2002).
- 111 R. Tickoo, **R. P. Tandon**, N. C. Mehra & P. N. Kotru, Dielectric and ferroelectrics properties of lanthanum modified lead titanate ceramics, *Mat. Science & Engg. B* 94, 1 (2002).
- 112 Komila suri, S. Annapoorni, **R. P. Tandon**, A Novel Nano composites sensor for detection of humidity., *J. Scientific & industrial Material* 60 (9) 724 (2001).
- 113 **R. P. Tandon** and S. Hotchandani, Electrical conductivity of semiconducting tungsten oxide glasses, *Phys. Stat. Solidi (a)* 185, 453 (2001).
- 114 Komila suri, S. Annapoorni, **R. P. Tandon**, Phase change induced by polypyrrole in iron – oxide polypyrrole nanocomposite, *Bulletin of Materials Science* 24 (6), 563-567 (2001).
- 115 R. Singh, Vandana Arora and **R. P. Tandon**, Dielectric Spectroscopy of doped polyaniline, *Synthetic Metals* 104, 137 (1999).
- 116 K. K. Sharma, P. N. Kotru, **R. P. Tandon** and B. M. Wanklyn, Hardness and dielectric characterization of flux grown terbium aluminate crystals, *mat. Sci. & Engg., B-solid State materials for Advanced Technology* 57, 197 (1999).
- 117 K. K. Bahri, **R. P. Tandon** and M. C. Bansal, Effects of additives on electrical properties of iron oxide semi-conducting glass, *Eur. Phys. J. Appl* 4, 291 (1998).
- 118 R. Singh, V. Arora, **R. P. Tandon**, S. Chandra and A. Mansingh, Charge transport and structural morphology of HCl-doped polyaniline, *Journal of Materials Science* 33 (8), 2067-2072 (1998).
- 119 K. K. Sharma, P. N. Kotru, **R. P. Tandon** and B. M. Wanklyn, Indentation-induced microhardness and dielectric studies of flux-grown gadolinium aluminate crystals, *Journal of Physics Condensed Matter* 10 (24) 5277-5287 (1998).
- 120 R. Singh, V. Arora, **R. P. Tandon**, S. Chandra, N. Kumar and A. Mansingh, Transport and structural properties of polyaniline doped with monovalent and multivalent ions, *Polymer* 38 (19), 4897-4902 (1997).

- 121 R. Singh, A. K. Narula, **R. P. Tandon**, A. Mansingh and S. Chandra, Polyronic hopping conduction in poly(N-methyl pyrrole-pyrrole) copolymer, *Philosophical Magazine B: Physics of Condensed Matter; Statistical Mechanics, Electronic, Optical and Magnetic Properties* 75 (3), 419-430 (1997).
- 122 **R. P. Tandon**, Dielectric and piezoelectric properties of lanthanum modified lead zirconate titanate ceramics, *Ferroelectrics* 195, 23 (1997).
- 123 D. A. Barrow, T. E. Petroff, **R. P. Tandon** and M. Sayer, Characterization of thick lead zirconate titanate films fabricated using a new sol-gel based process, *J. Appl. Phys.* 81, 876 (1997).
- 124 R. Singh, A. K. Narula, **R. P. Tandon**, A. Mansingh and A. Chandra, Low frequency alternating current conduction and dielectric relaxation in polypyrrole, poly (N-methyl pyrrole) and their copolymers, *J. Appl. Phys.* 80, 985 (1997).
- 125 **R. P. Tandon**, Development, characterization and some design considerations of piezoelectric compositions for ultrasonic applications, *Ferroelectrics* 195, 115 (1997).
- 126 R. Singh, A. K. Narula, **R. P. Tandon**, A. mansingh and S. Chandra, Electron Spin Resonance and Conductivity investigations in polypyrrole family of copolymers, *J. Appl. Phys.* 81, 3726 (1997).
- 127 P. C. Joshi, **R. P. Tandon** and A. Mansingh, Barium strontium titanate thin films by metallorganic solution deposition technique for DRAM application, *Ferroelectrics* 197, 139 (1997).
- 128 **R. P. Tandon**, V. Singh, N. N. Swami and V. K. Hans, Low temperature sintering of PZT ceramics using a glass additive, *Ferroelectrics* 196, 117 (1997).
- 129 G. P. Srivastava, Meena Srivastav, G.S. Tyagi, V. Mathew and **R.P. Tandon**, Studies on Mn – doped barium nanotitanate dielectric resonators, *Journal of Materials Science Letts.* 15, 1134 (1996).
- 130 R. Singh, A. K. Narula, **R. P. Tandon**, A. Mansingh and S. Chandra, Mechanism of charge transport in polypyrrole, Poly (N-methyl Pyrrole and their copolymers, *J. Appl. Phys.* 79, 1476 (1996).
- 131 R. Singh, A. K. Narula, **R. P. Tandon**, A. Mansingh and S. Chandra, Low frequency alternating current conduction and dielectric relaxation in polypyrrole, poly(N-methyl pyrrole), and their copolymers, *Journal of Applied Physics* 80 (2), 985-992 (1996).

- 132 R. Singh, A. K. Narula, **R. P. Tandon**, S. U. M. Rao, V. S. Panwar, A. Mansingh and S. Chandra, **Growth kinetics of polypyrrole, poly(N-methyl pyrrole) and their copolymer, poly(N-methyl pyrrole-pyrrole): Effect of annealing on conductivity and surface structure**, Synthetic Metals 79 (1), 1-6 (1996).
- 133 R. Singh, A. K. Narula and **R. P. Tandon**, A. C. Conductivity of poly (N-methylpyrrole), Synthetic Metals 82 (1), 63-70 (1996).
- 134 **R. P. Tandon**, V. L. Gupta and K. K. Gupta (Zr. Sn)TiO₄ based high-Q dielectric resonators for microwave circuit 17-20, New Delhi, 1153-56. (1996).
- 135 J. F. Rouleau, J. Goyette, T. K. Bose, R. Singh and **R. P. Tandon**, Transport Studies in H₃PO₄- doped polyaniline, J. Phys. Rev. B 52, 4801 (1995).
- 136 S. Bhat, S. K. Khosa, P. N. Kotru and **R. P. Tandon**, **Dielectric characteristics of neodymium heptamolybdate crystals grown by gel encapsulation technique**, Crystal Research and Technology 30 (2), 267-273 (1995).
- 137 S. Bhat, S. K. Khosa, P. N. Kotru and **R. P. Tandon**, **Dielectric characteristics of gel-grown mixed neodymium-lanthanum-heptamolybdate crystals**, Journal of Materials Science Letters 14 (8), 564-567 (1995).
- 138 **R. P. Tandon**, J. Goyette and T. K. Bose, Influence of additives on microwave dielectric properties of barium nanotitanate ceramics (Ba₂Ti₉O₂₀), J. Mat. Sc. Lett. 14, 1372 (1995).
- 139 G. P. Srivastava, M. Srivastav, G. S. Tyagi, **R. P. Tandon** and Shahnawaz, Magnetic relaxation in Mn-doped barium nanotitanate : a microwave dielectric resonator material, J. Mat. Sc. Letts. 14, 1397 (1995).
- 140 Sushma Bhat, S. K. Khosa, P. N. Kotru and **R. P. Tandon**, Dielectric studies of lanthanum heptamolybdate crystal grown from gel, Mat. Sci. & Engg. 30. 7 (1995).
- 141 **R. P. Tandon** and R. Singh, Development and characterization of composite hydrophones, Polymer & Polymer composites 2, 287 (1994).
- 142 K. S. Rao, C. Satyanarayana, A. V. Prasada Rao, A. I. Robin and **R. P. Tandon**, **Piezoelectric and ferroelectric properties of rare-earth modified filled tungsten bronze barium silver niobate ceramics**, Ferroelectrics 154 (1-4), 195-200 (1994).
- 143 A. I. Robin, A. V. Prasada Rao, K. S. Rao and **R. P. Tandon**, Effect of rare earth substitution on the dielectric and piezoelectric properties of Ba₂AgNB₅O₁₅, Ferroelectrics.

153, 285 (1994).

- 144 **R. P. Tandon**, V. Singh, R. Singh and N. Narayana Swami, The effect of neodymium oxide on dielectric and electromechanical properties of lead zirconate titanate ceramics, *Materials Letters* 20, 165 (1994).
- 145 **R. P. Tandon**, V. Singh and R. Singh, Properties of low temperature sintered neodymium doped lead zirconate titanate ceramics, *J. Mat. Sc. Lett.* 13, 810 (1994).
- 146 K. Sambasiva Rao, P. S. Jagga Rao, K. Rama Rao, A. V. Prasada Rao, A. I. Robin and **R. P. Tandon**, Dielectric and conductivity properties of lanthanum modified strontium copper niobate, *J. Mat. Sc. Lett.* 13, 253 (1994).
- 147 **R. P. Tandon**, V. Rama, Ajay Arora and V. K. Hans, Fabrication and characterization of copper containing lead titanate films prepared by sol-gel method, *Ferroelectrics* 152, 151 (1994).
- 148 **R. P. Tandon**, N. Narayana Swami and N. C. Soni, Particle size dependence of piezoelectric and acoustical response of a composite hydrophone, *Ferroelectrics* 156, 61 (1994).
- 149 **R. P. Tandon**, N. Narayana Swami and N. C. Soni, Particle size dependence of piezoelectric and acoustical response of a composite hydrophone, Presented at the 8th International Meeting on Ferroelectricity held during 8-13 August, 1993 at Gaithersberg, Maryland, U.S.A. (*Ferroelectrics* 1994).
- 150 **R. P. Tandon**, R. Singh, N. N. Swami, V. K. Hans and S. Chandra, Synthesis and properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics for application as dielectrics resonator in microwave circuits, *Proc. 4th Int. Symp. on Recent Advances in Microwave Technology (ISRAMT)*, Ed. B.S. Rawat, B. Bhat and R.S. Gupta, Wiley Eastern Ltd., New Delhi, 569 (1993).
- 151 G. P. Srivastava, Meena Srivastava, G. S. Tyagi and **R. P. Tandon**, Microwave dielectric Q and temperature coefficient measurement on Mn-doped barium nanotitanate ceramics, *Proc. 4th Int. Symp. on Recent Advances in Microwave Technology (ISRAMT)*, Ed. B.S. Rawat, B. Bhat and R.S. Gupta, Wiley Eastern Ltd., New Delhi, 731 (1993).
- 152 R. Singh, **R. P. Tandon** and S. Chandra, Evidence of small polaron formation in

polypyrrole, *J. Phys. Condensed Matter* 5, 1313 (1993).

- 153** K. Sambasiva Rao, P. S. Jagga Rao, K. Rama Rao, A. V. Prasada Rao, A. I. Robin and **R. P. Tandon**, Dielectric and conductivity properties of lanthanum modified strontium copper niobate, *Ferroelectrics*, Letters Section 16 (5-6), 195-204 (1993).
- 154** **R. P. Tandon**, D. R. Chaubey, R. Singh and N. C. Soni, **Dielectric, piezoelectric and acoustical properties of high performance piezorubber composite hydrophone**, *Journal of Materials Science Letters* 12 (15), 1182-1184 (1993).
- 155** H. Basantakumar Sharma, **R. P. Tandon**, A. Mansingh and R. Rup, Dielectric and piezoelectric properties of sol-gel-derived barium titanate ceramics, *J. Mat. Sc. Letts.* 12, (1795-1796) (1993).
- 156** K. Sambasiva Rao, P. S. Jagga Rao, K. Rama Rao, A. V. Prasada Rao, A. Issac Raobin and **R. P. Tandon**, Dielectric and resistivity properties of lanthanum doped $\text{Ba}(\text{Cu}_{1/3}\text{Ta}_{2/3})\text{O}_6$ and $\text{Ba}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$, *Ind. J. Pure & Appl. Phys.* 31, (1993).
- 157** **R. P. Tandon**, Advanced ceramics for microwave dielectric resonators, *Recent Advances in Microwaves*, Ed. G.P. Srivastava, Narosa Publishing House, New Delhi (1993). (Book Chapter).
- 158** G.P. Srivastava, Meena Satsangi, G.S. Tyagi and **R. P. Tandon**, Studies on Mn-doped barium nanotitanate ceramic for application in microwave integrated circuits, *Proc. APSYMCUSAT*, 1992.
- 159** **R. P. Tandon**, Properties of lead titanate polymer ceramic composite for application in hydrophones, *Solid State Phenomena* 25-26, 349 (1992).
- 160** A. K. Arora, **R. P. Tandon** and A. Man Singh, Piezoelectric, pyroelectric and dielectric properties of lanthanum modified lead zirconate titanate ceramics, *Ferroelectrics* 132, 9-25 (1992).
- 161** R. Singh, V. S. Panwar, **R. P. Tandon**, N. P. Gupta and S. Chandra, Low frequency ac conductivity and dielectric relaxation in Vinyl Chloride-Vinyl Acetate Copolymer, *J. Appl. Phys.* 72, 3410-17 (1992).
- 162** **R. P. Tandon**, Ved Singh and N. Narayana Swamy, Dielectric and electromechanical properties of lead zirconate titanate ceramics containing neodymium ions, *J. Mat. Sc. Lett.* 11, 327 (1992).

- 163 R. P. Tandon**, R. Singh, Ved Singh, N.N. Swamy and V.K. Hans, Ferroelectric properties of lead titanate/Polymer composite and its application in hydrophones, *J. Mat. Sci. Lett.* 11, 883-885 (1992).
- 164 R. Singh, R. P. Tandon**, G. S. Singh and S. Chandra, Evolution of Mott's parameters in BF_4 doped polypyrrole films, *Phil. Mag. B.* 66 (2), 285-291 (1992).
- 165 R. P. Tandon**, Dielectric dispersion in PMN ceramics, *Solid State Phenomena* 349, 25-26 (1992).
- 166 Shripal, A.K. Mishra, S.D. Pandey and R. P. Tandon**, Electrical conductivity and EPR investigations in manganese doped polycrystalline $\text{K}_2\text{Ti}_4\text{O}_9$, *Eur. J. of Solid State Inorg. Chem.* 29, 229 (1992).
- 167 R. P. Tandon**, R. Singh, R. D. P. Sinha and S. Chandra, Dielectric and piezoelectric behaviour of lead titanate / polymer composites, *Ferroelectrics* 120, 293 (1991).
- 168 R. Singh, R. P. Tandon** and S.D. Pandey, Electrical conductivity and E.P.R., investigations in iron doped polycrystalline $\text{K}_2\text{Ti}_4\text{O}_9$, *J. Phys. Chem. Solids*, 52, 1101 (1991).
- 169 R. Singh, R. P. Tandon**, V. S. Panwar and S. Chandra, Low frequency ac conduction in lightly doped polypyrrole films, *J. Appl. Phys.* 69, 2504 (1991).
- 170 R. P. Tandon** Dielectric and piezoelectric properties of a flexible polymer-ceramic composite based on PVDF and Barium Titanate, *Frontiers of Polymer Research*, Ed. P.N. Prasad and J.K. Nigam, Plenum Press, New York, 1991, P. 437.
- 171 R. Singh, R. P. Tandon**, V. S. Panwar and S. Chandra, Low temperature relaxation in polypyrrole, *J. Chem. Phys.* 95, 722 (1991).
- 172 R. P. Tandon**, Ved Singh, N. N. Swamy and M. C. Bansal, Influence of neodymium ions on the piezoelectric and dielectric properties of $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ Ceramics, *J. Acoust. Soc. India*, V. XIX, No.2, 15-22 (1991).
- 173 R. Singh, R. P. Tandon** and S. Chandra, Mechanism of D.C. conduction in lightly doped polypyrrole films, *J. Appl. Phys.* 70, 243 (1991).
- 174 R. Singh, R. P. Tandon**, V. S. Panwar and S. Chandra, Origin of d.c. conduction and dielectric relaxation in lightly doped polypyrrole films, *Thin Solid Films* 196, L15 (1991).
- 175 R. P. Tandon**, D. R. Chaubey, N. C. Soni and V. K. Hans, Properties of lead titanate-araldite based composites for hydrophone applications, *J. Acoust. Soc. (India)*, V. XIX, No.2, 50-55 (1991).

- 176** V. K. Bindal, **R. P. Tandon**, N. N. Swamy, N. C. Soni and V.K. Hans, Fabrication and characterization of 0-3 connectivity piezoelectric ceramic-polymer composites for transducer application, *J. Acoust. Soc. India.*, XVIII, 201 (1990).
- 177** V. K. Bindal, **R. P. Tandon**, Ved Singh, N. N. Swamy, N. C. Soni and V. K. Hans, Ferroelectric properties of PbTiO₃ based ceramic/polymer composites, *Proc. Intl. Congress on Ultrasonics, India*, F-61 (1990).
- 178** V. K. Bindal, **R. P. Tandon** and N. N. Swamy, On the studies of novel dielectrics for applications in resonators and filters in microwave integrated circuits, *Proc. 5th Intl. Workshop on Phys. Of semiconductor Devices*, 1989, Ed. S.C. Jain and W.S. Khohle, p. 115 and published by Tata McGraw Hill (India), 1990.
- 179** **R. P. Tandon** and Ajay Dhar, Influence of processing parameters on the dielectric properties of PMN relaxor ceramics, *Proc. of Intl. Symp. on Application of Ferroelectrics (ISAF-90)* held during Juen 6-9, 1990 at Univ. of Illinois (U.S.A.) and published by IEEE, pp. 573.
- 180** V. K. Bindal, J. Singh, **R. P. Tandon** and N.C. Soni, *Electroceramics*, 41, 171 (1987) Published by Brit. Ceramic Soc. (U.K.)
- 181** V. N. Bindal, T. K. Saksena, S.C. Gupta, **R. P. Tandon**, A. Kumar, and D. R. Chaube, On the development of low frequency transducer for oceanographic studies, *Prof. of Ultrasonics Intl-89*, held during July 3-7 at Madrid (Spain), 1989, p. 478.
- 182** S. R. Rotman, **R. P. Tandon** and H.L. Tuller, Defect-Property correlations in garnet crystals, The electrical conductivity and defect structure of luminescent cerium-doped yttrium aluminium garnet, *J. Appl. Phys.* 57, 1951 (1985).
- 183** H. S. Kalsi, **R. P. Tandon**, Balbir Singh, R. C. Goel and B. K. Das, Preparation and characterization of β - Al₂O₃, *Bulletin Materials Science* 6, 979 (1984).
- 184** H. S. Kalsi, **R. P. Tandon**, B. Singh and B. K. Das, Sintered metals and ceramic composites, Ed. by G.S. Upadhyaya and published by Elsevier Science Publisher (Amsterdam) p. 533 (1984).
- 185** D. P. Button, **R. P. Tandon**, C. King, M. H. Velez, H. L. Tuller and D. R. Uhlmann, Insight into structure of alkali borate glasses, *J. Non Cryst. Solids* 49, 129 (1982).
- 186** D. P. Button, **R. P. Tandon**, H. L. Tuller and D. R. Uhlmann, Fast ionic transport in solids, Ed.: J. Bates and G.C. Farrington North Holland Publishing Co., Amsterdam, p-655 (1981).

- 187** D. P. Button, **R. P. Tandon**, H. L. Tuller and D. R. Uhlmann, Fast Li ion conduction in chloroborate glasses-II, *Solid State Ionics* 5, 655 (1981).
- 188** D. P. Button, **R. P. Tandon**, H. L. Tuller and D. R. Uhlmann, Fast Li ion conduction in chloroborate glasses-II, *J. Non Cryst. Solids* 42, 297 (1980).
- 189** A. Mansingh, **R. P. Tandon**, and J. K. vaid, Ac conductivity of tungsten phosphate glasses, *Phys. Rev. B* 21, 4829 (1980).
- 190** A. Mansingh, A. Dhawan, **R. P. Tandon** and J. K. Vaid, D.C. conductivity of tungsten phosphate glasses, *J. Non Crystl. Solids* 27, 309 (1978).
- 191** A. Mansingh, J. K.Vaid and **R. P. Tandon**, D. C. conductivity of molybdenum phosphate glasses, *Journal of Physics C: Solid State Physics* 10 (20), art. no. 014, 4061-4066 (1977).
- 192** A. Mansingh, J. K. Vaid and **R. P. Tandon**, Switching and memory behaviour of vanadium glasses, *Phys. Stat. Solidi A* 38, K1 (1976).
- 193** A. Mansingh, J. K. Vaid and **R. P. Tandon**, Dielectric dispersion in molybdenum phosphate glasses, *J.Phys. C* 9, 1809 (1976).
- 194** A. Mansingh, J. K.Vaid and **R. P. Tandon**, A.C. conductivity of vanadium phosphate glasses, *J. Phys. C*, 8, 1023 (1975).
- 195** A. Mansingh, **R. P. Tandon** and J. K. Vaid, Dielectric relaxation in vanadium phosphate glasses, *J. Phys. Chem. Solids*, 36, 1267 (1975).