List of Publications

List of publications:

1. "Optical and Dielectric Properties of Ion Beam Irradiated Ag/Polymethyl Methacrylate Nanocomposites" Chaitali Gavade, N.L. Singh, P.K. Khanna. *Journal of nanoscience and nanotechnology* 14 (2014)1-6.

2. "Effect of swift heavy ion irradiation on copper/polymethyl methacrylate Nanocomposites"Chaitali Gavade, Sangeeta Kishore, N.L. Singh, P.K. Khanna. *Radiation Effects & Defects in Solids* 168(7–8) (2013) 504–511.

3."Swift Heavy Ion Induced Modification in Physical Properties of Poly methylmethacrylate (PMMA)/Nickel (Ni) nanocomposites" N. L. Singh, Chaitali Gavade, and P. K. Khanna . *Defect and Diffusion Forum* 341 (2013) 51-68.

4. "The effect of SHI irradiation on structural, thermal and dielectric properties of silver Nanoparticle-embedded polystyrene matrix" Chaitali Gavade, N.L. Singh, Anita Sharma, P.K. Khanna and Fouran Singh. *Radiation Effects & Defects in Solids* 166 (8-9) (2011) 585-591.

5. "Ion Beam Induced Modification of Metal Oxide Nanoparticles Dispersed Polyaniline Films" Sangeeta Kishore , Chaitali Gavade, Dolly Singh and N. L. Singh. *Radiation Effects & Defects in Solids* 166 (8-9) (2011) 606-614.

6. "Effect of SHI on dielectric and magnetic properties of metal oxide/PMMA nanocomposites" Chaitali Gavade, N.L.Singh, D.K.Avasthi, Alok Banerjee. *Nuclear Instruments and Methods in Physics Research B* 268 (2010) 3127–3131.

7. "Study of dielectrical properties of swift heavy ion induced modifications in metal oxide/PMMA nanocomposites" Chaitali Gavade, N. L. Singh, Dolly Singh, Sejal Shah, A. Tripathy, D. K. Avasthi. *Integrated Ferroelectrics,* 117 (2010) 76–84.

8. " Ion beam induced modification of metal nanoparticles dispersed polymeric films" Sejal Shah, N L Singh, Chaitali Gavade, V Shivakumar, Indra Sulania, A. Tripathi, F Singh, D K Avasthi, R.V.Upadhyay. *Integrated Ferroelectrics* 117(2010) 97–103.

9. " Electrical and thermal studies on the polyvinylchloride/carbon black composites induced by high energy ion beam" Dolly Singh, N.L. Singh, Anjum Qureshi, Chaitali Gavade, D.K. Avasthi, Arif N. *Integrated Ferroelectrics* 117(2010) 85-96.

Papers in Proceedings:

1. Synthesis of Silver Polymer Nanocomposites and Their Antibacterial Activity, Chaitali Gavade, Sunil Shah, N.L.Singh.55th DAE Solid State physics, AIP Conf. Proc. 1349 (2011) 168-169.

2. Effect on Optical Properties of Silver/PVA Nanocomposites Influenced by SHI Irradiation, Chaitali Gavade, Sunil Shah, N.L.Singh. Proceeding of International Symposium of Materials Chemistry, 6-11 Dec, 2010, BARC, Mumbai, India

3. Effect of SHI irradiation on dielectric and thermal properties of metal oxide/PMMA nanocomposites, Chaitali Gavade, Dolly Singh, N.L.Singh, D.K.Avasthi, V.Ganesan. Proceedings of the DAE Solid State Physics Symposium, Vol.54(2009)221.

4. Optical and electrical properties of polypropylene/glass fiber composites by 140MeV Ag^{11+} ion irradiation, Dolly Singh, Anjum Qureshi, Chaitali Gavde,

N.L.Singh, Ambuj Tripathi, D.K. Avasthi. Proceedings of the DAE Solid State Physics Symposium, Vol.54 (2009) 223.

5. Temperature Dependent Impedance Spectroscopic Studies of Solid Polymer Electrolyte:a: x) PEO: x Ni-DMG,Sangeeta, Dolly Singh, Chaitali Gavade and N. L. Singh. Proceedings of the DAE Solid State Physics Symposium, Vol.54(2009) 829.

6. Effect of SHI irradiation on NIO doped PMMA composites, Chaitali Gavde, Sejal Shah, Dolly Singh, N. L. Singh, A.Tripathi and D.K.Avasthi. Proceedings of the DAE Solid State Physics Symposium, Volume 53 (2008) 593.

7. Study of AC Electrical Properties of Proton Irradiated Polymer Composite, Sejal Shah, Dolly Singh, Anjum Qureshi, Chaitali Gavde, N.L. Singh, K.P.Singh. Proceedings of the DAE Solid State Physics Symposium Volume 52 (2007) 179.