List of Publications

Journals

1. Effect of irradiation by 140 MeV Ag11+ ions on the optical and electrical properties of polypropylene/TiO2 composite
   Anjum Qureshi, **Dolly Singh**, N. L Singh, S. Ataoglu, Arif N Gulluoglu, Ambuj Tripathi and D. K Avasthi, Nuclear Instrument and Methods in Physics Research B 267 (2009) 3456–3460
2. Radiation induced modification of dielectric and structural properties of the metal/ polymer composites
   Dolly Singh, N.L. Singh, Anjum Qureshi, P.Kulriya, Ambuj Tripathi, D.K. Avasthi , Arif N. Gulluoglu, Journal of Non-Crystalline Solids 356 (2010) 856-863.
3. Electrical and structural properties of polymethyalmethacylate/aluminum composites
   Dolly Singh, N.L.Singh, P.Kulriya, A.Tripathi, D.M.Phase, Journal of Composite Materials 44(2010) 1365-1378.
4. 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 Gulluoglu, Journal of Integrated ferroelectrics 117(2010) 85–96.
5. Swift Heavy Ion Induced Modification in Physical Properties of Poly methyl methacrylate (PMMA)/Carbon black(CB) Composites
   N.L.Singh, **Dolly Singh**, Anjum Qureshi, Journal of Radiation Effect and Defects 166(8-9) (2011) 640-647.
6. Effect of SHI on the optical and electrical properties of HDPE /carbon black composites
   Dolly Singh , Anjum Qureshi , N.L. Singh , S. Ataoglu, Arif N. Gulluoglu , P.Kulriya, Ambuj Tripathi, D.K. Avasthi
   Presented in ICMOM 09 (Shimala); To be published in Bull. Mater. Sci.
7. Improving the physical properties of polyvinylchloride/Al composites by using 140 MeV Ag^{+11} ions

Dolly Singh, N. L. Singh, Sangeeta Kishore, V.Ganesan, D. M. Phase
Communicated in Journal of Microelectronic Engineering (ICMAT-2011, Singapore)

Conference Proceedings

1. Dielectric Behavior of Metal-Polymer Composite for EMI Shielding
   Anjum Qureshi, **Dolly Singh**, Sejal Shah, N.L.Singh, Mehmet Eroglu, Arif N. Gulluoglu, Proceedings of the DAE Solid State Physics Symposium Volume 52 (2007) 181
2. Study of percolation and homogeneity in polyvinylchloride/ carbon black composites by electrical measurement
   Dolly Singh, Anjum Qureshi, Sejal Shah, N.L.Singh, Ayhan Mergen, Arif N. Gulluoglu, Proceedings of the DAE Solid State Physics Symposium Volume 53 (2008) page 295.
3. Optical and electrical properties of polypropylene/glass fiber composites by 140MeV Ag11+ ion irradiation
   Dolly Singh, Anjum Qureshi, Chaitali Gavde, N.L.Singh, Ambuj Tripathi, D.K. Avasthi, Proceedings of the DAE Solid State Physics Symposium, Volume 54 (2009) page 223.
4. Electrical and Surface Morphology of Polyvinylchloride Composites Filled with Aluminum Powder
   Dolly Singh, Sangeeta Kishore, N. L. Singh,
   AIP Conf. Proc. 1349(2011)188-189.
5. Temperature dependence electrical properties of Cu/PMMA composites.
   Dolly Singh, N.L.Singh

   DAE Solid State Phys.(2011) Accepted for AIP Conf. Proc.

Note: Above papers are the parts of the present thesis.

Other Publications: (Not included in the thesis)

Journal

1. Study of microhardness and electrical properties of proton irradiated polyether sulfone

   Nilam Shah, **Dolly Singh**, Sejal Shah, Anjum Qureshi, N.L.Singh, K.P. Singh Bull. Mater. Sci., 30(2007) 477–480.

2. Dielectric properties and surface morphology of proton irradiated ferric oxalate dispersed PVC films.

   Sejal Shah, **Dolly Singh**, Anjum Qureshi, N.L.Singh, K.P.Singh, V. Shrinet, Indian Journal of Pure and Applied Physics, **46** (2008) 439-442.

3. Dielectric and structural modification of proton beam irradiated polymer composite

   Sejal Shah, N. L. Singh, Anjum Qureshi, **Dolly Singh**, K.P. Singh, V. Shrinet, A.Tripathi, Nuclear Instrument and Methods in Physics Research B 266 (2008) 1768.

4. Ac electrical properties of proton irradiated EVA Films

   Anjum Qureshi, Sejal Shah, **Dolly Singh**, N.L.Singh and K.P.Singh, Indian J. Phys. 83(8) (2009) 1117-1122.

5. 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 Journal of Integrated ferroelectrics 117(2010)76–84.

6. Ion beam-induced modification of polyaniline films with/without In_2O_3, Journal of Sanggeta Kishore, Chaitali Gavade, Dolly Singh, N.L.Singh Radiation Effect and Defects 166:8-9(2011) 606-614.

Conference Proceedings

1. Effect of ion beam on metal nanoparticle doped polymeric films

   Sejal Shah, Anjum Qureshi, **Dolly Singh**, N.L.Singh, K.P.Singh, P.Kulriya, A.Tripathi, Proceedings of the DAE Solid State Physics Symposium Volume 51 (2006) 311

2. Dielectric response of metal doped polymeric films

   Sejal Shah, **Dolly Singh**, Anjum Qureshi, V. Shrinet, N.L.Singh

Proceedings of the DAE Solid State Physics Symposium Volume 51 (2006) 513

3. 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
4. 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) page 593.
5. Temperature Dependent Impedance Spectroscopic Studies of Solid Polymer Electrolyte:
   (1- x) PEO: x Ni-DMG
   Sangeeta, **Dolly Singh**, Chaitali Gavade and N. L. Singh, Proceedings of the DAE Solid State Physics Symposium, Volume 54(2009) 829.
6. 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)221-222.
7. Conductivity Studies of PEO based Polymer Nano-Composite Electrolyte Films
   Sangeeta Kishore, **Dolly Singh**, N. L. Singh and F. Singh
   AIP Conf. Proc. 1349(2011) 1035-1036.