List of Publications

Internationally Indexed Journals (Web of Science, SCI, Scopus, etc.)

*1. **Gnansagar B. Patel**, N.L. Singh, F. Singh, P.K. Kulriya, Effect of swift heavy ions irradiation on physicochemical and dielectric properties of chitosan and chitosan-Ag nanocomposites, Radiat. Phys. Chem. 181 (2021) 109288. doi:10.1016/j.radphyschem.2020.109288.
Impact Factor: 2.226

*2. **Gnansagar B. Patel**, N.L. Singh, F. Singh, P.K. Kulriya, Effects of MeV ions on physicochemical and dielectric properties of chitosan/PEO polymeric blend, Nucl. Instruments Methods Phys. Res. Sect. B Beam Interact. With Mater. Atoms. 447 (2019) 68–78. Doi:10.1016/j.nimb.2019.03.052.
Impact Factor: 1.270

*3. **Gnansagar B. Patel**, N.L. Singh, F. Singh, Modification of chitosan-based biodegradable polymer by irradiation with MeV ions for electrolyte applications, Mater. Sci. Eng. B. 225 (2017) 150–159. Doi:10.1016/j.mseb.2017.08.023.
Impact Factor: 4.706

4. **Gnansagar B. Patel**, S. Bhavsar, N.L. Singh, F. Singh, P.K. Kulriya, SHI induced modification in structural, optical, dielectric and thermal properties of poly ethylene oxide films, Nucl. Instruments Methods Phys. Res. Sect. B Beam Interact. With Mater. Atoms. 379 (2016) 156–161. Doi:10.1016/j.nimb.2016.04.018.
Impact Factor: 1.270

5. S. Bhavsar, **Gnansagar B. Patel**, N.L. Singh, Investigation of optical properties of aluminium oxide doped polystyrene polymer nanocomposite films, Phys. B Condens. Matter. 533 (2018) 12–16. Doi:10.1016/j.physb.2017.12.055.
Impact Factor: 1.902

6. S. Bhavsar, **Gnansagar B. Patel**, N.L. Singh, Effect of γ-irradiation on optical properties of Eu_2O_3-doped polystyrene polymer films, Luminescence. 33 (2018) 1243–1248. Doi:10.1002/bio.3541.
Impact Factor: 1.855

*7. **Gnansagar B. Patel**, N.L. Singh, F. Singh, P.K. Kulriya, MeV ions induced modification in structural, optical, dielectric and surface morphological properties of (chitosan–PEO)–Ag nanocomposites (Communicated)

* Research papers are the parts of the present thesis.