

S.No.	Reference	Year of Publication
1.	S.S. Pundir, K. Mishra, D.K. Rai, Structural, thermal and electrochemical studies of PVA/PVP—NH ₄ SCN—[C ₂ C ₁ Im][SCN] polymer electrolyte system, J Mater Sci: Mater Electron, vol. 32, pp. 1476, 2021.	2021
2.	Harshlata, K. Mishra, D. K. Rai, “Studies on ionic liquid based nanocomposite gel polymer electrolyte and its application in sodium battery”, Mat Science and Engg B, vol. 267, pp. 115098, 2021.	2021
3.	M. Rana, C. Banerjee, P. Chowdhury, M. Rana “Studies on optical signal due to oxygen effect on hydrogenated amorphous/crystalline silicon thin films”, Applied Physics A, vol. 127, pp. 192,2021.	2021
4.	V.Kapoor, N. K.Sharma, S.Gupta, and P.Kumar, “Fiber optic SPR sensing of liquids using copper and zinc oxide”, Optik, vol. 238, pp. 166727, 2021.	2021
5.	S.Singh, and N.Goswami, “Structural, magnetic and dielectric study of Fe ₂ O ₃ nanoparticles obtained through exploding wire technique”, Current Applied Physics, vol. 22, pp.20-29, 2021.	2021
6.	P Bhandari, V.Malik, D. Kumar, and M.Schechter, “Relaxation Dynamics of the three dimensional Coulomb glass model”, Physical Review E, vol 103, pp 032150, 2021.	2021
7.	M Smitha, Y. Sheena Mary, Y. Shyma Mary, Goncagül Serdaroglu, Papia Chowdhury, Meenakshi Rana, H. Umamahesvari, B.K. Sarojini, B.J. Mohan, Rani Pavithran, Modeling the DFT structural and reactivity studies of a pyrimidine -6-carboxylate derivative with reference to its wavefunction-dependent, MD simulations and evaluation for potential antimicrobial activity, J. Molecular Structure,vol. 1237, pp. 130397,2021.	2021
8.	Pooja, P. Chowdhury, Functionalized CdTe fluorescence nanosensor for the sensitive detection of water borne environmentally hazardous metal ions, Optical Materials, vol. 111, pp. 110584, 2021.	2021
9.	S. Chauhan, M. Kumar, A. Yousuf, P. Rathi, M. Sahni and S. Singh, “Effect of Na/Co co-substituted on structural, magnetic, optical and photocatalytic properties of BiFeO ₃ nanoparticles” Materials Chemistry and Physics, vol. 263, pp.124402, 2021	2021
10.	M. Das, K. Thapliyal, B. Sen, J. Perina and A. Pathak," Interplay between quantum Zeno and anti-Zeno effects in a non-degenerate hyper-Raman nonlinear optical coupler", Phys. Rev. A, vol. 103, pp. 013713, 2021.	2021
11.	P. Malpani, K. Thapliyal and A. Pathak," Can we control the amount of useful nonclassicality in a photon added hypergeometric state?", J. Opt., vol.23, pp.025202, 2021.	2021
12.	A. Saxena, A. Shukla and A. Pathak," A hybrid scheme for prime factorization and its experimental implementation using IBM quantum processor", Quant. Infor. Process.,vol.20,pp. 112, 2021.	2021
13.	M. Tripathi, A. Bhatnagar, K. K. Pandey and P. Ganesan," Synthesis, Characterization and Performance Study of Biomass Derived Supercapacitor Electrode”, J. Electrochem. Soc., vol 168, pp. 050530, 2021.	2021
14.	S. Sahai, A. Varshney, “Solar absorbance enhancement in perovskite solar cells with the inclusion of copper nanoparticles: an architectural study”, Opt Quant Electron., vol. 53, pp. 111, 2021.	2021

15.	V. Singh, P. Kumar, S. Sharma, and R. K. Dwivedi, "Structural, Magneto-Transport Properties of Lead Doped NdMnO ₃ Ceramics", ECS Journal of Solid State Science and Technology, Vol. 10, pp. 033004, 2021.	2021
16.	M. Sisodia, K. Thapliyal and A. Pathak, Optical designs for realization of a set of schemes for quantum cryptography, Opt Quant Electron., vol. 53, pp 302, 2021.	2021
17.	V. Shukla , A. Bhatnagar , S. K Verma , A. Pandey , A. Vishwakarma , P. Srivastava , T. P Yadav and O. N. Srivastava Mater. Adv., 2021, https://doi.org/10.1039/D1MA00012H	2021

Book/Book Chapter		
S. No.	Reference	Year of publication
1	Pooja, M. Rana, P. Chowdhury, "Modern applications of Quantum dots: Environmentally hazardous metal ion sensing and medical imaging", "Handbook of Nanomaterials for Sensing Applications", Elsevier, ISBN- (In press), 2021	2021
2	V. Malik, "Equilibrium Properties of Coulomb Glass", "Current Perspectives on Chemical Sciences, Book Publisher International, 978-93-90768-68-4, 2021	2021