

S.No.	Reference	Year of Publication
1.	P. Sharma, G. Mathur, S.R. Dhakate, S. Chand , N. Goswami, S.K. Sharma, and A. Mathur, "Evaluation of physicochemical and biological properties of Chitosan / Poly (vinyl alcohol) polymer blend membranes and their correlation for Vero cell growth", Carbohydrate Polymers, vol. 137, pp. 576-583, 2016.	2016
2.	A.P.S. Chauhan and K. Chawla, "Comparative Studies on Graphite and Carbon Black Powders and their Dispersions", Journal of Molecular Liquids, vol. 221, pp. 292-297, 2016.	2016
3.	S. Sharma, V. Singh, and R.K. Dwivedi, "Electrical properties of (1-x)BFO – (x) PZT multiferroic polycrystalline synthesized by sol-gel method: Transition from relaxor to non-relaxor ", J. Alloys and Compounds, vol. 682, pp. 723–729, 2016.	2016
4.	S. Joshi, V.B. Kamble, M.Kumar, A.M. Umarji, and G. Srivastava, "Nickel Substitution Induced Effects on Gas Sensing Properties of Cobalt Ferrite Nanoparticles", Journal of Alloys and Compounds, vol. 654, pp. 460-466, 2016.	2016
5.	S.Chauhan, M. Kumar, S. Chhoker, and S.C. Katyal, "A Comparative Study on Structural, Vibrational, Dielectric and Magnetic Properties of Microcrystalline BiFeO <sub>3</sub> , Nanocrystalline BiFeO <sub>3</sub> and Core-shell Structured BiFeO <sub>3</sub> @SiO <sub>2</sub> Nanoparticles" ,Journal of Alloys and Compounds, vol. 666, pp. 454-467, 2016.	2016
6.	R.Sharma, P. Thakur, M. Kumar, N. Thakur, N.S. Negi, P. Sharma, and V. Sharma, "Improvement in Magnetic Behaviour of Cobalt doped Magnesium Zinc Nano-Ferrites via Co-precipitation", Journal of Alloys and Compounds, vol. 684, pp. 569-581, 2016.	2016
7.	Seema. Joshi and Manoj. Kumar, "Effect of Ni <sup>2+</sup> substitution on structural, magnetic, dielectric and optical properties of mixed spinel CoFe <sub>2</sub> O <sub>4</sub> nanoparticles", Ceramics International, vol. 42, pp. 18154-18165, 2016	2016
8.	Y.Kumar, A. Sahai, Mendez Sion F. Olive, N. Goswami, and V.Agarwal, "Morphological transformations in Cobalt doped Zinc Oxide nanostructures: effect of doping concentration", Ceramics International, vol.42 , pp. 5184-5194, 2016.	2016
9.	S. Mahadevan, and A.P.S. Chauhan, "Investigation of Synthesized Nanosized Copper by Polyol Technique with Graphite Powder", Advanced Powder Technology, vol. 27, pp.1852-1856, 2016.	2016
10.	A. Sahai, N. Goswami, S. D. Kaushik, and S. Tripathi, "Cu/Cu <sub>2</sub> O/CuO nanoparticles: Novel synthesis by exploding wire technique", Applied Surface Science, vol. 390, pp. 974-983, 2016.	2016
11.	Sunil. Chauhan, Manoj. Kumar and Prabir. Pal, "Substitution driven Structural and Magnetic properties and Evidence of Spin Phonon Coupling in Sr-doped BiFeO <sub>3</sub> nanoparticles", RSC Advances, vol. 6, pp. 68028-68040, 2016.	2016
12.	S.Chauhan, M. Kumar, S. Chhoker, S.C. Katyal, and M. Singh, "Substitution driven Structural and Magnetic Transformation in Ca-doped BiFeO <sub>3</sub> nanoparticles", RSC Advances, vol. 6, pp. 43080-43090, 2016.	2016
13.	Pardeep.K.Jha, Priyanka.K. Jha, P. Kumar, K. Asokan, and R.K. Dwivedi, "Gradient Core-shell microstructure in mixed valence multiferroic: TM (Ti, Nb, W) substituted bismuth ferrite", J. Alloys and Compounds, vol. 667, pp. 178-183, 2016.	2016

14.	S.D.Giri, B. Sen,A. Pathak, and P.K.Jana, "Higher order two-mode and multi-mode entanglement in Raman processes", Phys. Rev., vol. A 93, pp.012340, 2016.	2016
15.	K.Thapliyal, A. Pathak, and J. Perina, "Linear and nonlinear quantum Zeno and anti-Zeno effects in a nonlinear optical coupler", Phys. Rev., vol. A 93, pp. 022107, 2016.	2016
16.	M.Rana.,N. Singla, A. Chatterjee, A. Shukla, and P. Chowdhury, "Investigation of nonlinear optical (NLO) properties by charge transfer contributions of amine functionalized tetraphenyethylene", Optical Materials, vol. 62 , pp. 80-89, 2016.	2016
17.	D.C.Sati, S.C. Katyal, and P. Sharma, "Role of Composition and Substrate Temperature on Nonlinear Optical Properties of GeSeTe Thin Films in 0.4–2.4- $\mu$ m Wavelength Range", IEEE Transactions on Electron Devices, Vol. 63(2), pp.698, 2016.	2016
18.	V. Sharma, K. Thapliyal, A. Pathak, S. Banerjee, "A comparative study of protocols for secure quantum communication under noisy environment: single-qubit-based protocols versus entangled-state-based protocols", Quantum Information Processing, vol. 15, pp. 4681–4710, 2016.	2016
19.	D.Maikhuri, S.P. Purohit, and K.C. Mathur, "Two photon processes in ZnO quantum dots", Superlattices and Microstructures, Vol. 89C, pp. 296-311, 2016.	2016
20.	R.D.Sharma, K. Thapliyal, A. Pathak, A.K. Pan, and A. De, "Which verification qubits perform best for secure communication in noisy channel?", Quant. Infor. Process, vol. 15, pp. 1703–1718, 2016.	2016
21.	K.Thapliyal,S. Banerjee, and A. Pathak, "Tomograms for open quantum systems: in(finite) dimensional optical and spin systems", Annals of Physics, vol. 366, pp. 148-167, 2016.	2016
22.	K. Shah, S. Shukla, N.K. Sharma, and V. Sajal, "Theoretical study of surface plasmon resonance based fiber optic sensor utilizing an additional layer of zinc oxide", Optik, vol. 127, pp. 5743-5749, 2016.	2016
23.	K.Verma, V. Sajal, R. Kumar, and N.K Sharma, "Suppression of decay instability of the non-resonant beat wave excited by two counter-propagating x-mode lasers in magnetized plasma", Physics of Plasmas, vol. 23, pp. 012109, 2016.	2016
24.	C. Shukla, A. Banerjee, A. Pathak and R. Srikanth, "Secure quantum communication with orthogonal states", International Journal of Quantum Information, vol. 14, pp. 1640021, 2016.	2016
25.	D.Goel, P. Chauhan, A. Varshney, and V. Sajal, "Surface plasma waves induced electron acceleration in a static magnetic field", Laser and Particle Beams, vol. 34, pp. 474-479, 2016.	2016
26.	D.Goel, P. Chauhan, A. Varshney, and V. Sajal, "Parametric excitation of surface plasma waves by stimulated Compton scattering of laser beam at metal-free space interface", Laser and Particle Beams, vol. 34, pp. 467-473, 2016.	2016
27.	B.R. Singh, S. Rawal and R.K. Sinha, "Photonic Crystal Based RGB Primary Color Optical Filter", Journal of Modern Optics, vol. 63, pp. 1362-3044, 2016.	2016
28.	P.Thakur, R.Sharma, R. Kumar, S.C. Katyal,N.S. Negi,N. Thakur,V. Sharma, and P. Sharma, "Superparamagnetic La Doped Mn-Zn Nano Ferrites: Dependence on Dopant Content and Crystallite Size", Materials Research Express, vol. 3, pp. 075001, 2016.	2016

29.	S. Shukla, N.K. Sharma, and V. Sajal, "Theoretical analysis of surface plasmon resonance based fiber optic sensor using ITO and ZnO thin films", Optical and Quantum Electronics, vol. 48, pp. 57, 2016.	2016
30.	S. Joshi, and M. Kumar, "Influence of Co <sup>2+</sup> substitution on cation distribution and on different properties of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles", Journal of Superconductivity and Noel Magnetism, vol. 29, pp. 1561-1572, 2016.	2016
31.	C. Gautam, A. Madheshiya, P. Sharma, and R.K. Dwivedi, "Synthesis and Electrical Properties of (Pb,Bi)TiO <sub>3</sub> Ceramics", International Journal of Applied Ceramic Technology, vol. 13, pp. 340-351, 2016.	2016
32.	R. Singh, A. Mathur, N. Goswami, and G. Mathur, "Effect of carbon sources on physicochemical properties of bacterial cellulose produced from Gluconacetobacter xylinus MTCC 7795", e-Polymers, vol. 16, pp. 0047, 2016.	2016
33.	S.Shukla, N.K. Sharma, and V. Sajal, "Theoretical study of surface plasmon resonance based fiber optic sensor utilizing cobalt and nickel films", Brazilian Journal of Physics, vol. 46, pp. 288-293, 2016.	2016
34.	K. Chawla, A.P.S. Chauhan, and A. Pandey, "Influence of different grades of furnace carbon blacks on the curing kinetics and reinforcement of natural rubber composites", Plastics, Rubber and Composites: Macromolecular Engineering , vol. 45, pp.253-260, 2016,	2016
35.	D.Goel, P. Chauhan., and A.Varshney, "Anomalous Absorption of Surface Plasma Wave over a Metal Surface Embedded With Carbon Nano-Tubes" International Journal of Engineering Research and General Science., Vol. 4,pp. 380-385, 2016.	2016
36.	Deepika. P. Chauhan, and A. Varshney, "Anomalous absorption of surface plasma wave over a metal surface embedded with carbon nano-tubes", International Journal of Engineering Research and General Science, Vol. 4, pp. 380-385, 2016 ,	2016
37.	Vijayeta. Pal, A. Kumar, O.P. Thakur, R.K. Dwivedi, and N.E. Prasad, " Preparation, microstructure and relax or ferroelectric characteristics of BLNT-BCT lead-free piezoceramics", J. Alloys and Compounds, vol. 714, pp. 725-735, 2017.	2017
38.	Subhash Sharma and R.K. Dwivedi, "Substitutionally driven phase transition and enhanced multiferroic and electrical properties of (1-x) BiFeO <sub>3</sub> – (x) Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> ceramics (0.0 ≤ x ≤ 1.00)", J. Alloys and Compounds, vol. 692, pp. 770 – 773, 2017.	2017
39.	M. Kumar, M. Arora, S. Chauhan, and S. Joshi, "Raman spectroscopy probed spin-two phonon coupling and improved magnetic and optical properties in Dy and Zr substituted BiFeO <sub>3</sub> nanoparticles", Journal of Alloys and Compounds, vol. 692, pp. 236-242, 2017.	2017
40.	P. Bhandari, V. Malik, and S.R. Ahmad, "Critical behavior of the two-dimensional Coulomb glass at zero temperature", Phys. Rev. B, vol. 95, pp. 184203, 2017.	2017
41.	Pardeep. K.Jha, Priyanka. A. Jha, Prabhakar. Singh, Ranjan Rajeev, and R.K. Dwivedi, "Sm/Ti co-substituted bismuth ferrite multiferroics: reciprocity	2017

	between tetragonality and piezoelectricity”, Journal of Physical Chemistry Chemical Physics, vol. 19, pp. 2685-2695, 2017.	
42.	R.Sharma, P. Thakur, M. Kumar, P.B. Barman, P. Sharma, and V. Sharma, “Enhancement in A-B super-exchange interaction with Mn <sup>2+</sup> substitution in Mg-Zn ferrites as a heating source in hyperthermia applications”, Ceramics International, vol. 43, pp. 13661-13669, 2017.	2017
43.	P.C. Sati, M. Kumar, M. Arora, M. Tomar, and V. Gupta, “Effect of Zr substitution on structural, magnetic, and optical properties of Bi <sub>0.9</sub> Dy <sub>0.1</sub> Fe <sub>1-x</sub> ZrxO <sub>3</sub> multiferroic ceramics prepared by rapid liquid phase sintering method”, Ceramics International, vol. 43, pp. 4904-4909, 2017.	2017
44.	N. Goswami and P. Sen, “Water-driven Stabilization of Cadmium Sulphide Nanoparticles”, Applied Surface Science, vol. 425, pp. 576-584, 2017.	2017
45.	M. Rana, and P. Chowdhury, “Effects of hydrogen bonding between pyrrole-2-carboxaldehyde and nearest polar and nonpolar environment”, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, vol.185, pp. 198-206, 2017.	2017
46.	P. Bhandari, and V. Malik, “Effect of increasing disorder on domains of the 2d Coulomb glass”, Journal of Physics Condensed Matter, vol. 29, pp. 485402, 2017.	2017
47.	S. Joshi, M. Kumar, S. Chhoker, A. Kumar, and M. Singh, “Effect of Gd <sup>3+</sup> substitution on structural, magnetic, dielectric and optical properties of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> ”, Journal of Magnetism and Magnetic Materials, vol. 426, pp. 252-263, 2017.	2017
48.	P. Thakur, R. Sharma, V. Sharma, P.B. Barman, M. Kumar, D. Barman, S.C. Katyal, and P. Sharma, “Gd <sup>3+</sup> doped Mn-Zn soft ferrite nanoparticles: Superparamagnetism and its correlation with other physical properties”, Journal of Magnetism and Magnetic Materials, vol. 432, pp. 208-2017, 2017.	2017
49.	S.K.Giri, K. Thapliyal, B. Sen, and A. Pathak, “Nonclassicality in an atom-molecule Bose-Einstein condensate: Higher-order squeezing, antibunching and entanglement”, Physica A, vol. 466, pp. 140-152, 2017.	2017
50.	K.Mishra, S.S. Pundir, and D. K. Rai, “Effect of polysorbate plasticizer on the structural and ion conduction properties of PEO-NH <sub>4</sub> PF <sub>6</sub> solid polymer electrolyte”, Ionics, vol. 23, pp. 105-112, 2017.	2017
51.	K. Thapliyal, A. Pathak, and S. Banerjee, “Quantum cryptography over non-Markovian channels”, Quantum Information Processing, vol. 16, pp. 115, 2017.	2017
52.	C. Shukla, K. Thapliyal and A. Pathak, “Semi-quantum communication: Protocols for key agreement, controlled secure direct communication and dialogue”, Quantum Information Processing, vol. 16, pp. 295, 2017.	2017
53.	C. Shukla, K. Thapliyal, and A. Pathak, “Hierarchical Joint Remote State Preparation in Noisy Environment”, Quantum Information Processing, vol. 16 pp. 205, 2017.	2017
54.	A. Banerjee, C. Shukla, K. Thapliyal, A. Pathak, and P. K. Panigrahi, “Asymmetric quantum dialogue in noisy environment”, Quantum Information Processing, vol. 16, pp. 49, 2017.	2017
55.	P.C. Sati, M. Kumar, M. Arora, M. Tomar, and V. Gupta, “Effect of Pr substitution on structural, magnetic, and optical properties of Bi <sub>1-x</sub> Pr <sub>x</sub> Fe <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> multiferroic ceramics”, Journal of Materials Science: Materials in Electronics, vol. 28, , pp. 1011-1014, 2017.	2017

56.	M. Sisodia, V. Verma, K. Thapliyal, and A. Pathak, “Teleportation of a qubit using entangled non-orthogonal states: A comparative study”, Quantum Information Processing, vol. 16, pp. 76, 2017.	2017
57.	D.R. Sharma, K. Thapliyal, and A. Pathak, “Quantum sealed-bid auction using a modified scheme for multiparty circular quantum key agreement”, Quantum Information Processing, vol. 16, pp. 169, 2017.	2017
58.	M. Sisodia, A. Shukla, K. Thapliyal, and A. Pathak, “Design and experimental realization of an optimal scheme for teleportation of an n-qubit quantum state”, Quantum Information Processing, vol. 32, pp. 229-264, 2017.	2017
59.	S. Aravinda, R. Srikanth, and A. Pathak, “On the origin of nonclassicality in single systems”, Journal of Physics A, vol. 50, pp. 465303, 2017.	2017
60.	M. Sisodia, A. Shukla, and A. Pathak, “Experimental realization of nondestructive discrimination of Bell states using a five-qubit quantum computer”, Physics Letters A, vol. 32, pp. 3860-3874, 2017.	2017
61.	K. Shah, N.K. Sharma, and V. Sajal, “SPR based fiber optic sensor with bi layers of indium tin oxide and platinum: A theoretical evaluation”, Optik, vol. 135, pp. 50-56, 2017.	2017
62.	N.K. Sharma, S. Shukla, and V. Sajal, “Surface plasmon resonance based fiber optic sensor using an additional layer of platinum: A theoretical study”, Optik, vol. 133, pp. 43-50, 2017.	2017
63.	S. K. Awasthi, R. Panda and L. Shiveshwari, “Multichannel tunable filter properties of 1D magnetized ternary plasma photonic crystal in the presence of evanescent wave,” Physics of Plasmas, vol. 24, pp. 072111-1 – 072111-2, 2017.	2017
64.	K.L. Mann, V. Sajal, P. Varshney and N.K Sharma, “Terahertz radiation generation by pulse slippage of Cosh-Gaussian lasers in a corrugated magnetized plasma”, Physics of Plasmas, vol. 24, pp. 123117, 2017.	2017
65.	R. Panda, M. Upadhyay, and S.K. Awasthi, “Temperature Dependent Tuning of Defect Mode inside Photonic Bandgap for Cwdm Applications.”, Optics, vol. 06, pp. 5-10, 2017.	2017
66.	M. Rana, N. Singla, A. Pathak, R. Dhanya, C. Narayana, and P. Chowdhury, “Vibrational-electronic properties of intra/inter molecular hydrogen bonded heterocyclic dimer: An experimental and theoretical study of pyrrole-2-carboxaldehyde”, Vibrational Spectroscopy, vol. 89, pp. 16-25, 2017.	2017
67.	M. Rana, and P. Chowdhury, “Perturbation of hydrogen bonding in hydrated pyrrole-2-carboxaldehyde complexes”, ,Journal of Molecular Modelling, vol. 23, pp. 216-227, 2017.	2017
68.	K. Thapliyal, N. L. Samantray, J. Banerji and A. Pathak, “Comparison of lower- and higher-order nonclassicality in photon added and subtracted squeezed coherent states”, Physics Letters A, vol. 381, pp. 3178-3187, 2017.	2017
69.	A. Shukla, A. K. Pandey, and A. Pathak, “Benford's distribution in extrasolar world: Do the exoplanets follow Benford's distribution?”, Journal of Astrophysics and Astronomy, vol. 38, pp. 7, 2017.	2017
70.	P. Varshney, V. Sajal, A. Upadhyay, J.A. Chakera, and R. Kumar, “Tunable terahertz radiation generation by nonlinear photomixing of cosh-Gaussian laser pulses in corrugated magnetized plasma”, Laser and Particle beams, vol. 35, pp. 279 2017.	2017
71.	K.L. Mann, V. Sajal, and N.K. Sharma, “Excitation of terahertz radiation generation by obliquely incident beating lasers on a hot magnetized plasma	2017

	with step density profile”, Laser and Particle Beams, vol. 35, pp. 528-533, 2017.	
72.	K. Thapliyal, R. D. Sharma, and A. Pathak, “Protocols for quantum binary voting,” International Journal Quantum Information, vol. 15, pp. 1750007, 2017.	2017
73.	S. Bhardwaj, A. Pal, K. Chatterjee, P. Chowdhury, S. Saha, A. Barman, T. H Rana, G. D. Sharma and S. Biswas, “Electrophoretic deposition of plasmonic nanocomposite for the fabrication of dye-sensitized solar cells,” Indian Journal of Pure & Applied Physics, vol. 55, pp. 73, 2017.	2017
74.	S. Bhardwaj, A. Pal, K. Chatterjee, P. Chowdhury, S. Saha, A. Barman, T. H Rana, G. D. Sharma and S. Biswas, “Electrophoretic deposition of plasmonic nanocomposite for the fabrication of dye-sensitized solar cells”, Indian Journal of Pure & Applied Physics, vol. 55, pp. 73-80, 2017.	2017
75.	J. Singh, P. Singh, and V. Malik, ‘Sensitivity analysis of discharge patterns of subthalamic nucleus in the model of Basal ganglia in Parkinson disease”, Journal of Integrative Neuroscience, vol. 16, pp. 441, 2017.	2017
76.	A. H. Shenoy, A. Pathak, and R. Srikanth, “Quantum cryptography: key distribution and beyond” , Quanta, vol. 6, pp. 1-47, 2017.	2017
77.	Vikash. Singh, Subhash. Sharma, and R.K. Dwivedi, “Improved dielectric, magnetic and optical properties of Pr and Ti co-substituted BFO ceramics”, J. alloy and Compounds, Vol. 747, pp. 611-620, 2018.	2018
78.	Vijayeta. Pal, A.Kumar, O.P. Thakur, and R.K. Dwivedi,“Structural investigation of Ca/Zr co-substituted BaTiO <sub>3</sub> through XRD and Raman spectroscopy”, Journal of Alloys and Compounds”, Vol. 741, pp. 707-714, 2018.	2018
79.	S. Joshi, M. Kumar, H. Pandey, M. Singh, and P. Pal, “Structural, magnetic and dielectric properties of Gd <sup>3+</sup> substituted NiFe <sub>2</sub> O <sub>4</sub> nanoparticles”, Journal of Alloys and Compounds, vol. 768, pp. 287-297, 2018.	2018
80.	R. Sharma, P. Thakur, M. Kumar, P. Sharma and V. Sharma, “Nanomaterials for high frequency device and photocatalytic applications: Mg-Zn-Ni ferrites”, Journal of Alloys and Compounds, vol. 746, pp. 532-539, 2018.	2018
81.	M. Kumar, M. Arora, S. Chauhan, and H. Pandey, “Structural, magnetic, dielectric, vibrational and optical properties of Zr substituted Bi <sub>0.90</sub> Gd <sub>0.10</sub> FeO <sub>3</sub> multiferroics”, Journal of Alloys and Compounds, vol. 735, pp. 684-691, 2018.	2018
82.	S. Bhardwaj, A.Pal, K. Chatterjee, T. H. Rana , G.Bhattacharya, S.S.Roy , P. Chowdhury , G. D. Sharma and S.Biswas, “Significant enhancement of power conversion efficiency of dye-sensitized solar cells by the incorporation of TiO <sub>2</sub> -Au nanocomposite in TiO <sub>2</sub> photoanode” ,J. Materials Sci, vol. 53, pp. 8460-8473, 2018.	2018
83.	P. Singh, P.K. Rout, H. Pandey, and A. Dogra, “Temperature-dependent space-charge-limited conduction in BaTiO <sub>3</sub> heterojunctions” ,Journal of Materials Science, vol. 53, pp. 4806-4813, 2018.	2018
84.	M. Das, B. Sen, A. Ray, and A. Pathak, “Lower order and higher order entanglement in four-wave mixing process”, Annalen der Physik, vol. 530, pp. 1700160, 2018.	2018
85.	J. Naikoo, S. Banerjee, K. Thapliyal, and A. Pathak, “Probing nonclassicality in an optically-driven cavity with two atomic ensembles”, Physical Review A, vol. 97, pp. 063840, 2018.	2018

86.	A. Sahai, M. Mishra, G. Gupta and Navendu. Goswami, "Structural, Vibrational and Electronic Properties of CuO Nanoparticles Synthesized via Exploding Wire Technique", Ceramic International, vol. 44, pp. 2478-2484, 2018.	2018
87.	P. Bhardwaj, N. Goswami, P. Narula, C. K. Jain, and A. Mathur, "Zinc Oxide nanoparticles (ZnO NP) mediated regulation of bacosides biosynthesis and transcriptional correlation of HMG-CoA reductase gene in suspension culture of Bacopa monnieri", Plant Physiology and Biochemistry, vol. 130, pp. 148-156, 2018.	2018
88.	S.S. Pundir, K. Mishra, and D.K. Rai, "Ion transport studies in nanocomposite polymer electrolyte membrane of PVA-[C <sub>4</sub> C <sub>1</sub> Im][HSO <sub>4</sub> ]-SiO <sub>2</sub> ", J Solid State Electrochemistry, vol 22, pp. 1801-1815, 2018.	2018
89.	S. Sharma, H. Pandey, M. Kumar, and S. Chhoker, "Room temperature ferromagnetism and electrical properties of Mn-doped Zn <sub>2</sub> SnO <sub>4</sub> nanorods", Superlattices and Microstructures, vol. 120, pp. 161-169, 2018.	2018
90.	Subhash,Sharma, Vikash. Singh, Avneesh. Anshul, J.M. Siqueiros, and R.K.Dwivedi, "Structural stability, Enhanced magnetic, piezoelectric and transport properties in (1-x)BiFeO <sub>3</sub> - (x)Ba <sub>0.70</sub> Sr <sub>0.30</sub> TiO <sub>3</sub> nanoparticles", Journal of Applied Physics, vol. 12,pp. 204102, 2018.	2018
91.	S. Bhardwaj, A. Pal, K.H. Chatterjee,T.H. Rana, G. Bhattacharya, S.Roy. Sinha, P. Chowdhury, G.D. Sharma, and S. Biswas, "Fabrication of efficient dye-sensitized solar cells with photoanode containing TiO <sub>2</sub> -Au and TiO <sub>2</sub> -Ag plasmonic nanocomposites", Journal of Materials Science: Materials in Electronics, vol. 29, pp. 18209-18220, 2018.	2018
92.	K. Thapliyal, and A. Pathak, "Kak's three-stage protocol of secure quantum communication revisited: hitherto unknown strengths and weaknesses of the protocol", Quantum Information Processing, vol. 17, pp. 229, 2018.	2018
93.	A. Banerjee, K. Thapliyal, and A. Pathak, "Quantum Conference." Quantum Information Processing, vol. 17, pp. 161, 2018.	2018
94.	S. Bhardwaj, A. Pal, K. Chatterjee, T. H Rana, G. Bhattacharya, S. Roy.Sinha, P. Chowdhury, G.D. Sharma, and S.Biswas, "Enhanced efficiency of PbS quantum dot-sensitized solar cells using plasmonic photoanode", Journal of Nanoparticle Research, vol. 20, pp. 198-213, 2018.	2018
95.	N. Alam, A. Verma, and A. Pathak, "Higher order nonclassicalities of finite dimensional coherent states: A comparative study", Physics Letters A, vol. 382, pp. 1842-1851, 2018.	2018
96.	S. Kumar, S. Balyan, M. Rafat, and V. Sajal, "Combined effects of density ripples and transverse magnetic field on the suppression of stimulated Raman scattering of X-mode laser in a plasma", Optik, vol. 166, pp. 1-7, 2018.	2018
97.	S. Balyan, M. Rafat, A. Panwar, V. Sajal, and C. M. Ryu, "Magnetic field generation by amplitude modulated laser pulse in a rippled plasma", Optik, vol. 172, pp. 437-442, 2018.	2018
98.	K.Shah, N.K. Sharma, and V. Sajal, "Simulation of LSPR based fiber optic sensor utilizing layer of platinum nanoparticles", Optik, vol. 154, pp. 530-537, 2018.	2018
99.	S. K. Awasthi, R. Panda, P. K. Chauhan, and L. Shiveshwari, "Multichannel tunable omnidirectional photonic band gaps of 1D ternary photonic crystal containing magnetized cold plasma", Physics of Plasmas, vol. 25, pp. 052103-1 - 052103-11, 2018.	2018
100.	D. Goel, P. Chauhan, A. Varshney, D.B. Singh, and V. Sajal, "Parametric excitation of surface plasma waves over a metallic surface by laser in an	2018

	external magnetic field”, Laser and Particle Beams, Vol. 36, pp. 92-97, 2018.	
101.	D. Tripathi, and T.K. Dey, “Co-current doping effect of nanoscale Carbon and Aluminium Nitride on critical current density and flux pinning properties of bulk MgB <sub>2</sub> superconductor”, J. Low Temp Phys., vol. 191, pp. 136-152, 2018.	2018
102.	A. Pathak and A.Ghatak, “Classical light vs. nonclassical light: Characterizations and interesting applications”, Journal of Electromagnetic Waves and Applications, vol. 32, pp. 229-264, 2018.	2018
103.	N. Alam, K. Mandal, and A. Pathak, “Higher-order nonclassical properties of a shifted symmetric cat state and a one-dimensional continuous superposition of coherent states”, International Journal of Theoretical Physics, vol. 57, pp. 3443-3456, 2018.	2018
104.	M. Sisodia, and A. Pathak, “Comment on “Quantum Teleportation of Eight-Qubit State via Six-Qubit Cluster State.” International Journal of Theoretical Physics, vol. 57, pp. 516-522, 2018.	2018
105.	K. Shah, N.K. Sharma, and V. Sajal, “Analysis of fiber optic SPR sensor utilizing platinum based nanocomposites”, Optical and Quantum Electronics, vol. 50, pp. 265, 2018.	2018
106.	S. Singh, A. Sahai, S.C. Katyal, and N. Goswami, “Structural, Optical and Vibrational Study of Zinc Copper Ferrite Nanocomposite Prepared by Exploding Wire Technique”, Materials Science-Poland, vol. 36, pp. 722-732, 2018.	2018
107.	K. Thapliyal, R.D. Sharma, and A. Pathak, “Orthogonal-state-based and semi-quantum protocols for quantum private comparison in noisy environment”, International Journal of Quantum Information, vol. 16, pp. 1850047, 2018.	2018
108.	P. C. Sati, M. Sahni, M. Kumar, M. Arora, P. Negi, M. Tomar, V. Gupta and N. Kumar, “Effect of Pr <sup>3+</sup> substitution on structural, dielectric, electrical and magnetic properties of BiFe <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> [Bi <sub>1-x</sub> Pr <sub>x</sub> Fe <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> , x = 0.05, 0.10, 0.15] ceramics”, Integrated Ferroelectrics, vol. 193, pp. 1-13, 2018.	2018
109.	V.Sharma, S. Sharda, Neha. Sharma, S. C. Katyal, and P. Sharma, “Chemical ordering and electronic properties of lone pair chalcogenide semiconductors” Progress in Solid State Chemistry, Volume 54, pp. 31-44, 2019.	2019
110.	S.Chauhan, M. Kumar, H.Pandey, S.Chhoker, and S.C.Katyal, “Ca–Li substitution driven structural, dynamics of electron density, magnetic and optical properties of BiFeO <sub>3</sub> nanoparticles”, Journal of Alloys and Compounds, vol. 811, pp. 151965-151967, 2019.	2019
111.	A.Panwar, V.Malik, S. Neeleshwar, and A.Bagga, ”Probing the path for achieving a broad temperature plateau of the figure of merit in thermoelectric nanocomposite materials”, Nanotechnology, vol. 31, pp. 035405, 2019.	2019
112.	P. Malpani, K. Thapliyal, N. Alam, A. Pathak, V. Narayanan, S. Banerjee. “Quantum phase properties of photon added and subtracted displaced Fock states.” Annalen Der. Physik vol.531, pp. 1900141, 2019.	2019
113.	P. Malpani, N. Alam, K. Thapliyal, A. Pathak, V. Narayanan, S. Banerjee, “Lower- and higher-order nonclassical properties of photon added and subtracted displaced Fock states,” Annalen der Physik, vol. 531, pp. 1800318, 2019.	2019
114.	J. Naikoo, S. Banerjee and A. Pathak. “Interplay between nonclassicality and PT symmetry in an effective two level system with open system effects.” Phys. Rev. A, vol. 100, pp. 023836, 2019.	2019

115.	J. Naikoo, K. Thapliyal, S. Banerjee and A. Pathak, "Quantum Zeno effect and nonclassicality in a PT symmetric system of coupled cavities", Physical Review A, vol. 99, pp. 023820, 2019.	2019
116.	M.Rana, and P.Chowdhury, " L-glutathione capped CdSeS/ZnS quantum dot sensor for the detection of environmentally hazardous metal ions", Journal of Luminescence, vol. 206, pp. 105-112, 2019.	2019
117.	P.Thakur, R.Sharma, M. Kumar, S.C. Katyal, , P.B. Barman, V.Sharma, P.Sharma, "Structural, morphological, magnetic and optical study of co-precipitated Nd <sup>3+</sup> doped Mn-Zn ferrite nanoparticles" Journal of Magnetism and Magnetic Materials, vol. 479, pp. 317-325, 2019.	2019
118.	S.Sharma, M. Kumar, and S.Chhoker, "Parameters dependent synthesis of zinc stannate nanowires using CVD and its porphyrin dye loaded optical studies". Vol.160, pp. 201-208, 2019.	2019
119.	P.Bhandari, V. Malik, and S.Puri, "Logarithmic Coarsening in the Coulomb Glass", Phys. Rev. E, vol. 99, pp 052113, 2019.	2019
120.	S. Mishra, K. Thapliyal, A. Pathak and A. Venugopalan. "Comparing coherence measures for X states: Can quantum states be ordered based on quantum coherence?" Quantum Information Processing. Vol.18,pp. 295,2019.	2019
121.	K. Thapliyal and A. Pathak. "Quantum e-commerce: A comparative study of possible protocols for online shopping and other tasks related to e-commerce." Quantum Information Processing. vol. 18, pp.191, 2019.	2019
122.	A. Mukherjee, B Sen, K. Thapliyal, S. Mandal and A. Pathak. "Interaction of light and semiconductor can generate quantum states required for solid state quantum computing: Entangled, steered and other nonclassical states." Quantum Information Processing. vol. 18, pp. 234, 2019.	2019
123.	M. Rana, and P. Chowdhury,"Studies on Size Dependent Structures and Optical Properties of CdSeS Clusters" Journal of Cluster Science, vol.31, pp.1111–1121, 2019.	2019
124.	K. L.Mann, V.Sajal, A.Panwar, and N. K.Sharma, "Excitation of terahertz radiation by parametric coupling of a laser beam and its frequency shifted second harmonic in a corrugated magnetized plasma", Optik, vol. 179, pp. 401-407, 2019.	2019
125.	K. Thapliyal, A. Pathak, B. Sen, J. Perina. "Lower-and-higher-order nonclassical features in non-degenerate hyper-Raman processes," Optics Communication, vol. 444, pp. 111-119, 2019.	2019
126.	K. Mandal, N. Alam, A. Verma, A. Pathak and J. Banerjee. "Generalized binomial state: Nonclassical features observed through various witnesses and a quantifier of nonclassicality," Optics Communication. vol. 445, pp. 193-203, 2019.	2019
127.	M.Rana, A.Jain, V. Rani, and P. Chowdhury, "Glutathione capped core/shell CdSeS/ZnS quantum dots as a medical imaging tool for cancer cells" Inorganic Chemistry Communications, Volume 112,pp. 107723, 2019,	2019
128.	S.Singh, S. C. Katyal, and N.Goswami, "Dielectric and Electrical Study of Zinc Copper Ferrite Nanoparticles Prepared by Exploding Wire Technique", Applied Physica A, vol. 125, pp. 638 (1-14), 2019.	2019
129.	R.Sharma, S. C.Katyal, S. Khanna, V.Sharma, and P.Sharma, "Study of amorphous Sn–Se–Bi–Te semiconducting materials at an average coordination number < r>= 2.4" Journal Materials Research Express, vol. 6, pp-075209, (2019)	2019

130.	S. Aravinda, A. Pathak and R. Srikanth. "Hierarchical axioms for quantum mechanics.", Euro. Phys. J. D, vol. 73,pp.207, (2019)	2019
131.	N. Alam, K. Thapliyal, A. Pathak, B. Sen, A. Verma and S. Mandal. "Bose-condensed optomechanical-like system and a Fabry-Perot cavity with one movable mirror: Quantum correlations from the perspectives of quantum optics." European Physical Journal D, vol. 73, pp. 139, (2019)	2019
132.	D.Tripathi, and T. K. Dey, "Effect of particle size distribution on thermo mechanical properties of NiO filled LDPE composites", vol.Bull. Mater. Sci. 42, pp.174, 2019.	2019
133.	S. K.Awasthi, R. Panda, A.Verma, P. K.Chauhan, and L.Shiveshwari, "Microwave multichannel tunable filter based on transmission and reflection properties of 1D magnetized plasma photonic crystal heterostructures", Indian J Phys, vol. 94, pp. 1665-1678, 2019.	2019
134.	K. L. Mann, V. Sajal, A. Panwar, and N. K. Sharma, "Excitation of terahertz radiation by parametric mixing of four waves in magnetized plasma", Optik, vol. 186, pp. 182-186, 2019.	2019
135.	S. Baliyan, M.Rafat, A. Panwar, N. K.Sharma, and V Sajal, "Suppression of stimulated Raman side-scattering of a laser in a plasma in presence of co-propagating electron beam", Optik, vol. 179, pp. 330-335, 2019.	2019
136.	V. Kapoor, N. K .Sharma, and V. Sajal, "Effect of zinc oxide overlayer on the sensitivity of fiber optic SPR sensor with indium tin oxide layer", Optik, vol. 185, pp. 464-468, 2019.	2019
137.	V.Kapoor, N. K. Sharma, and V Sajal, "Indium tin oxide and silver based fiber optic SPR sensor: an experimental study", Optical and Quantum Electronics, vol. 51, pp. 125, 2019.	2019
138.	P. Bhandari and V. Malik, "Finite Temperature Phase Transition in the two dimensional Coulomb Glass at low disorders," The European Physical Journal B, Vol. 92, pp147, 2019.	2019
139.	P. Tripathi, A. Bhatnagar, A. Ramesh, A. K. Vishwakarma, S. Singh, D. B. Bailmare, A. D. Deshmukh, B. K. Gupta, and O.N. Srivastava, "Radially aligned CNTs derived carbon hollow cylinder architecture for efficient energy storage", vol. 354, pp.136650, 2020.	2020
140.	M. Tripathi, A. Bhatnagar, N. M. Mubarak, J. N. Sahu, and P. Ganesan, "RSM optimization of microwave pyrolysis parameters to produce OPS char with high yield and large BET surface area", vol. Fuel 277, pp.118184, 2020.	2020
141.	A. P. Pandey, A. Bhatnagar, V. Shukla, P. K Soni, S. Singh, S. K Verma, M. Shaneeth, V. Sekkar, O. N. Srivastava, "Hydrogen storage properties of carbon aerogel synthesized by ambient pressure drying using new catalyst trimethylamine, Int. J. Hydrogen Energy, vol. 45, pp. 30818,2020.	2020
142.	S. Singh, A. Bhatnagar, V. Shukla, A. K Vishwakarma, P. K Soni, S. K Verma, MA Shaz, ASK Sinha, and O.N Srivastava, "Ternary transition metal alloy FeCoNi nanoparticles on graphene as new catalyst for hydrogen sorption in MgH <sub>2</sub> ", Int. J. Hydrogen Energy, vol.45, pp.774-786,2020.	2020
143.	S. Kumar Verma, A. Bhatnagar, Vivek Shukla, Pawan Kumar Soni, Anant Prakash Pandey, Thakur Prasad Yadav, and Onkar Nath Srivastava, "Multiple improvements of hydrogen sorption and their mechanism for MgH <sub>2</sub> catalyzed through TiH <sub>2</sub> @Gr", Int. J. Hydrogen Energy ,vol.45, pp.19516-19530, 2020.	2020

144.	Shalu Sharma and Sandeep Chhoker, "Efficient light harvesting using simple porphyrin-oxide perovskite system", Scientific Reports, vol.10, pp.1-11, 2020.	2020
145.	P. Chowdhury " In silico investigation of phytoconstituents from Indian medicinal herb ‘Tinospora cordifolia (giloy)’ against SARS-CoV-2 (COVID-19) by molecular dynamics approach", Journal of Biomolecular Structure and Dynamics, pp.1803968, 2020.	2020
146.	S. Nasa, and S.P. Purohit, "Linear and third order nonlinear optical properties of GaAs quantum dot in terahertz region", Physica E: Low-dimensional Systems and Nanostructures, vol. 118, pp.113913, 2020.	2020
147.	A. Bhatnagar, A. P. Pandey, M. S. L. Hudson, P. K. Soni, S. K. Verma, V. Shukla V. Sekkar, M. Tripathi and O.N. Srivastava, "Economical synthesis of highly efficient and tunable carbon aerogels for enhanced storage of CO <sub>2</sub> emitted from energy sources", Int J Energy Res., pp. 1– 8, 2020;	2020
148.	P. Malpani, K. Thapliyal, N. Alam, A. Pathak, V. Narayanan, S. Banerjee, "Manipulating nonclassicality via quantum state engineering processes: Vacuum filtration and single photon addition", Ann. Der Physik, vol. 532, pp. 1900337, 2020.	2020
149.	K. Mandal, Amit Verma "Higher-order nonclassicality in photon added and subtracted qudit states", Annalen der Physik, vol.532, pp.10, 2020.	2020
150.	H. Verma, K. Mishra, and D. K. Rai, "Sodium ion conducting nanocomposite polymer electrolyte membrane for sodium ion batteries", Journal of Solid State Electrochemistry, vol. 24, pp. 521–532, 2020.	2020
151.	S. Srikara, K. Thapliyal, and A. Pathak, "Continuous variable B92 quantum key distribution protocol using single photon added and subtracted coherent states.", Quant. Infor. Process, vol.19, pp. 371, 2020.	2020
152.	P. Kairon, K. Thapliyal, R. Srikanth and A. Pathak,"Noisy three-player dilemma game: Robustness of the quantum advantage.", Quant. Infor. Process. Vol.19, pp.327, 2020	2020
153.	S. Srikara, K. Thapliyal, and A. Pathak, "Continuous variable direct secure quantum communication using Gaussian states", Quant. Infor. Process. Vol.19, pp. 132, 2020.	2020
154.	S Sharma, RK Dwivedi, JM Siqueiros, O Raymond Herrera, "Coexistence of two ferroelectric phases and improved room-temperature multiferroic properties in the (0.70)BiFe <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> –(0.30)PbTiO <sub>3</sub> system" Journal of Applied Physics, vol. 128 ,pp. 124102, 2020.	2020
155.	A. Shukla, M. Sisodia and A. Pathak, "Complete characterization of the directly implementable quantum gates used in the IBM quantum processors", Phys. Lett. A, vol. 384 , pp. 126387, 2020.	2020
156.	S..Sharma, M. P.Cruz, J.M. Siqueiros, O. Raymond Herrera, V. E. Alvarez and R. K.Dwivedi "Correction to: Investigation of electrical, magneto-dielectric and transport properties of multiferroic (1-x)BiFeO <sub>3</sub> –(x)Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> solid solutions", J. Mat. Sci.: Materials in Electronics, vol.31, pp.4379-4391, 2020.	2020
157.	S. Chauhan, C. Anand, B. Tripathi, M. Kumar, M. S., R. C. Singh, and S. Singh,"Influence of Na substitution on structural, magnetic, optical and photocatalytic properties of bismuth ferrite nanoparticles",vol. 31, pp.20191-20209, 2020.	2020
158.	S. Saxena, R.K. Dwivedi and V., Khare "Multi-piezoelectric materials based doubly clamped energy harvester", J. Mat. Sci.: Materials in Electronics, vol.31,pp. 6998-7011, 2020.	2020

159.	M. Rana, P. Chowdhury, "Studies on Size Dependent Structures and Optical Properties of CdSeS Clusters", Journal of Cluster Science, vol.31, pp. 1111-1121, 2020.	2020
160.	P. Malpani, K. Thapliyal, N. Alam, A. Pathak, V. Narayanan, S. Banerjee, "Impact of photon addition and subtraction on nonclassical and phase properties of a displaced Fock state", Optics Communication,vol.459, pp. 124964, 2020.	2020
161.	P. Chowdhury and P. Pathak, Neuroprotective immunity by essential nutrient "Choline" for the prevention of SARS CoV2 infections: An in silico study by molecular dynamics approach, vol.761, pp. 138057,2020.	2020
162.	M. Rana, A. Jain, V. Rani, P. Chowdhury, "Glutathione Capped Core/shell CdSeS/ZnS Quantum Dots as a Medical Imaging tool for Cancer Cells", Inorganic Chemistry Communications, vol.112, pp.107723, 2020.	2020
163.	M Shahzad, H Rizvi, A Panwar, CM Ryu, T Rhee, "Kinetic damping of radially localized kinetic toroidal Alfvén eigenmodes in tokamak plasmas", Physics of Plasmas, vol. 27, pp.072504, 2020.	2020
164.	L. Shiveshwari and S. K. Awasthi, "Band gap characteristics of 1D static and moving photonic crystal", Physica B: Condensed Matter, vol. 597, pp.412360, 2020.	2020
165.	Shalu. Sharma and Sandeep. Chhoker "Manoeuvring morphological, optical and electrical properties of CVD grown Ba-doped SnO <sub>2</sub> nanostructures via Mn co-doping " Journal of Electronic Materials, vol. 49 ,pp. 7325-7335, 2020.	2020
166.	P. Bhandari, V. Malik, 'Charge Ordering in three dimensional Coulomb glass at finite temperatures and low disorders', vol 93, pp. 1-6, 2020.	2020
167.	P. Das, A. Khan and A. Pathak, "Formation of Solitonic Bound State via Light-Matter Interaction."Euro. Phys. J. D, vol.74, pp.213, 2020.	2020
168.	Hema, Tara. Bhatt, Tarun. Pant, Charu. Dondiyal, Meenakshi. Rana, P. Chowdhury, and G. C. Joshi, "Computational study of the intermolecular interactions and their effect on the UV-visible spectra of the ternary liquid mixture of benzene, ethanol and propylene glycol", vol.26, pp.268, 2020.	2020
169.	A. Saxena, K. Thapliyal, and A. Pathak,"Continuous variable controlled quantum dialogue and secure multiparty quantum computation." Int. J. Quant. Infor, vol.18, pp. 2050009, 2020.	2020
170	V. Kapoor, and N. K. Sharma, "Surface plasmon resonance based fiber optic sensor prepared from bilayers of indium tin oxide-indium oxide", Microwave and Optical Technology Letters, vol. 62, pp. 2439-2443, 2020.	2020

International Conference		
S.No.	Reference	Year of Publication
1.	K. Chawla and A.P.S. Chauhan, "Influence of Carbon Fillers on the Thermal Conductivity of Poly (Methyl Methacrylate)/Carbon Composites", AIP Conference Proceedings, vol. 1724, 2016, pp. 020049, 2016.	2016
2.	K. Chawla and A.P.S. Chauhan "Comparative Studies on Industrial Grade Carbon Black Powders," AIP Conference Proceedings, vol. 1728, pp. 020581, 2016.	2016
3.	V. Pal, A. Kumar, O.P. Thakur and R.K. Dwivedi, "Preparation, Crystal Structure and Enhanced Bipolar Response of 0.90BLNT- 0.10BCT Lead-Free Piezoceramics," AIP Conference Proceedings, vol. 1728, pp. 020571, 2016.	2016
4.	A. Sahai and N. Goswami, "Dopant Concentration Dependent Growth of Fe: ZnO Nanostructures," AIP Conf. Proc., vol. 1731, pp. 050035, 2016.	2016
5.	S. Shukla and N.K. Sharma, "Indium oxide based fiber optic SPR sensor," AIP Conf. Proc., vol. 1728, pp. 020036, 2016.	2016
6.	S. Chauhan, M. Kumar and S.C. Katyal, "Band-gap Tuning and Magnetic Properties of Heterovalent ions (Ba, Sr and Ca) Substituted BiFeO <sub>3</sub> Nanoparticles," AIP Conf. Proc., vol. 1731, pp. 130029, 2016.	2016
7.	S. Joshi, M. Kumar and G. Srivastava, "Optical and Magnetic Properties of Co <sup>2+</sup> Substituted NiFe <sub>2</sub> O <sub>4</sub> Nanoparticles," AIP Conf. Proc., vol. 1731, pp. 130020, 2016.	2016
8.	M. Rana, P. Chowdhury, "Micellar systems: Novel family for drug carriers" AIP Conf. Proc., vol.1731, pp. 050083, 2016.	2016
9.	P. Bhandari and V. Malik., "Optimization of Coulomb glass system at low disorder," <i>AIP Conference Proceedings</i> , vol. 1897, pp. 020026, 2017.	2017
10.	S. Balyan, M. Rafat, N. Ahmad, and V. Sajal, "Modified stimulated Raman scattering of a laser induced by trapped electrons in a plasma," AIP Conference Proceedings, vol. 1897, pp. 020029, 2017.	2017
11.	P. Bhandari, V. Malik, "First order transition in two dimensional Coulomb glass," IOP Conf. Series: Journal of Physics: Conf. Series, vol. 814, pp. 012005,	2017
12.	P. Bhandari, V. Malik, and D. Kumar, "Relaxation and possible dynamical transition in electron glass," AIP Conference Proceedings, vol. 1832, pp.	2017
13.	V. Malik, and P. Bhandari "Ground states properties of two dimensional Coulomb glass," AIP Conference Proceedings, vol. 1832, pp. 070001, 2017.	2017
14.	S. Chandan and A. P. S. Chauhan, "Geometrical Nonlinearity of 14-node Brick Finite Element," AIP Conference Proceedings, vol. 1802, pp. 020003, 2017.	2017
15.	K. Shah, N.K. Sharma, "Nanoparticles based fiber optic SPR sensor," AIP Conf. Proc., vol. 1953, pp. 060007, 2018.	2018
16.	S. Chauhan, M. Kumar, C. Anand, V. Dillu, R. Mazumdar, and S.C. Katyal, "Antibacterial activity and ferroelectric properties of Nd <sup>3+</sup> doped ZnO nanostructured materials," AIP Conf. Proc., vol. 2009, pp. 020006, 2018.	2018

17.	S.K. Sharma, D. Tripathi, R. Kumar, P. Gautam, V.K. Sachdev, and R.P. Tandon, "Fabrication and characterization of ABS/rGO nano-composites for EMI shielding application," AIP Conf. Proc., vol. 2009, pp. 020008, 2018.	2018
18.	V.K. Gangwar, D. Tripathi, and T.K. Dey, "Levitation force of Cu (nano) added MgB <sub>2</sub> superconductor," AIP Conf. Proc., vol. 2009, pp. 020015, 2018.	2018
19.	S. Chauhan, M. Kumar, H. Pandey, and M. Sahni, "Room temperature multiferroic properties of rapid liquid phase sintered Pb <sup>+2</sup> doped bismuth ferrite," AIP Conf. Proc., vol. 2009, pp. 020005, 2018.	2018
20.	S. Chauhan, M. Kumar, H. Pandey, S. Chhoker, "Effect of Ca and Ni co-substitution on structural and magnetic properties of BiFeO <sub>3</sub> nanoparticles," AIP Conf. Proc., vol. 2009, pp. 020032, 2018.	2018
21.	S. Sharma, M. Kumar and S. Chhoker, "Optical and electrical studies of barium stannate micro rods synthesized via chemical process," AIP Conf. Proc., vol. 2009, pp. 020014, 2018.	2018
22.	H. Pandey, M. Kumar, A.K. Srivastava, and S. Pandey, "Microstructural and transport characterization of Co <sub>2</sub> MnSi thin films," AIP Conf. Proc., vol. 2009, pp. 020029, 2018.	2018
23.	D. Tripathi, H. Pandey, A. Panwar, and V. Sajal, "Effect of sintering techniques on thermo-electric properties of bulk La <sub>1.96</sub> Sr <sub>0.04</sub> CuO <sub>4</sub> ," AIP Conf. Proc., vol. 2009, pp. 020035, 2018.	2018
24.	K. Shah, and N.K. Sharma, "SPR based fiber optic sensor utilizing thin film of nickel," AIP Conf. Proc., vol. 2009, pp. 020040, 2018.	2018
25.	M. Rana, and P. Chowdhury, "Understanding of Size Dependent Properties of CdTe Nanoclusters," AIP Conf. Proc., vol. 2009, pp. 020054, 2018.	2018
26.	M. Rana, A. Chatterjee, and P. Chowdhury, "Investigation of Non Linear Optical Properties of Organic Based Di Amine Substituted Tetraphenylethylene," AIP Conf. Proc., vol. 2009, pp. 020055, 2018. doi:	2018
27.	S. Chhoker and S. Sharma, "Surface activation of self-assembled carbon nanoflakes," AIP Conf. Proc., vol. 2009, pp. 020024, 2018.	2018
28.	N. Sonnathi, A. Panwar, V. Malik, and A. Bagga, "Theoretical Investigations Of Interfacial Scattering Effects On Thermoelectric Properties Of Bulk Nanostructured PbTe System," MRS Advances, pp. 1-6, 2018	2018
29.	P. Bhandari and V. Malik., "Quenching vs annealing of Coulomb glass system at low disorder," AIP Conference Proceedings, vol. 2009, pp. 020050, 2018.	2018
30.	J. Singh, P. Singh, and V. Malik, "Effect of Intrinsic Parameters on Dynamics of STN Model in Parkinson Disease: A Sensitivity-Based Study," Advances in Intelligent Systems and Computing book series, vol. 583, pp 417, 2018.	2018

31.	J. Singh, P. Singh, and V. Malik, "Role of Sodium, Potassium and Synaptic Conductance in STN-GPe Model of Basal Ganglia in Parkinson Disease," Springer, vol 761, 2018.	2018
32.	Harshlata, K. Mishra, and D.K. Rai, "Sodium ion conducting polymer electrolyte membrane prepared by phase inversion technique," AIP Conf. Proc., vol. 1942, pp. 140050, 2018.	2018
33.	Harshlata, K. Mishra, and D.K. Rai, "Electro-chemical studies on sodium ion conducting gel polymer electrolyte of PVdF-HFP+NaPF6," AIP Conf. Proc., vol. 2009, pp. 020014, 2018.	2018
34.	S. Chandan, and A.P.S. Chauhan, "Modeling and fuzzy logic control of photovoltaic-fuel cell-battery hybrid vehicle", AIP Conf. Proc., vol. 2061, pp. 020026, 2019	2019
35.	V. Kapoor, and N.K. Sharma, "SPR based fiber optic refractive index sensor," AIP Conf. Proc., vol. 2136, pp. 050003, 2019.	2019
36.	S. Singh, S.C. Katyal, and N. Goswami, "Impedance spectroscopic study of nanoscale Zn-Cu ferrite prepared by exploding wire technique," AIP Conf. Proc., vol. 2115, pp. 030128, 2019.	2019
37.	S. Singh, S.C. Katyal and N. Goswami, "Tuning of Band Gap Energy of Semiconducting Zn-Cu Nanoferrite by Varying ions (Cu +2, Zn+2) Concentration," AIP Conf. Proc., vol. 2136, pp. 040018, 2019.	2019
38.	M. Tripathi, P. Ganesan, and J.N. Sahu, "Microwave pyrolysis of OPS to synthesize micro porous OPS char: Effect of process parameters," AIP Conr. Proc., vol. 2136, pp. 040019, 2019	2019
39.	V. Malik, "Non-equilibrium study of Coulomb glass at small disorders using Kawasaki dynamics," AIP Conf. Proc., vol 2136, pp. 020002, 2019.	2019
40.	S. Joshi, M. Kumar, H. Pandey, S. Chhoker, "Optical Properties of Gd3+ Substituted CoFe2O4 Nanoparticles," AIP Conf. Proc., vol. 2136, pp. 040007-040007, 2019.	2019
41.	H. Pandey, S. Chhoker, B.C. Joshi, D. Tripathi, "First principle investigation on Co2TiSi Heusler alloy", AIP Conf. Proc., vol. 2136, pp. 040004-040004, 2019.	2019
42.	V. Devi, H. Pandey, D. Tripathi, M. Kumar, B.C. Joshi, "Optical and electrical properties of pristine and Al doped ZnO thin films," AIP Conf. Proc., vol. 2136, pp. 040010-040010, 2019.	2019
43.	K. Mandal, and A. Verma, "Higher order nonclassicality in single photon added and subtracted binomial state of light," AIP Conference Proceedings, 2019.	2019
44.	A. Verma, "Study of Higher Order Squeezing and subpoissonian Photon Statistics in generalised binomial State of light," AIP Conference Proceedings, 2019.	2019

<b>45.</b>	S. Nasa, S.P. Purohit, "Terahertz radiation absorption in GaAs quantum dot," AIP Conf. Proc., vol. 2136, pp. 040009, 2019.	2019
<b>46.</b>	P. Chauhan, S.K. Awasthi, A. Varshney, A. Panwar, and V. Sajal, "Modified dispersion relation of surface plasmon waves in the presence of external magnetic field," AIP Conference Proceedings vol. 2136, pp. 060019, 2019.	2019
<b>47.</b>	S.K. Awasthi, P.K. Chauhan, and A.D. Varshney, "Tunable transmission filter properties of one-dimensional photonic heterostructure," AIP Conference Proceedings., vol. 2136, pp.50013, 2019.	2019
<b>48.</b>	A.D. Varshney, P.K. Chauhan, and S.K. Awasthi, "Simple design for SPR at 1.33 and 1.55 $\mu\text{m}$ of birefringent PCF," AIP Conference Proceedings., 2019	2019
<b>49.</b>	A. Panwar, H. Rizvi, M. Shahzad, C.M. Ryu, and V. Sajal, "Excitation of kinetic reverse shear Alfvén eigenmode by energetic ions in a tokamak plasma," AIP Conference Proceedings., vol. 2136, pp. 060016, 2019.	2019
<b>50.</b>	Pooja., M. Rana, P. Chowdhury, "Influence of size and shape on optical and electronic properties of cdte quantum dots in aqueous environment" AIP Conference Proceedings, vol. 2136, pp. 040006, 2019.	2019
<b>51.</b>	M. Rana, Pooja, P. Chowdhury, "Investigation on nonlinear optical responses of different pyrrole derivatives:a computational study," AIP Conference Proceedings, vol. 2136, pp. 040005, 2019.	2019
<b>52.</b>	A.P.S. Chauhan, S. Chandan, Y. Sahi, "Enhanced vibration energy harvesting from lead free ceramic $0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3-0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ ," Materials Today: Proceedings, 2020.	2020
<b>53.</b>	A. K. Singh, N. Sinha, A.P.S. Chauhan, "Frictional properties of dry multiwall carbon nanotubes (MWCNTs) nanoparticles," Materials Today: Proceeding, 2020.	2020
<b>54.</b>	D. Chawla and N. Goswami, "Structural and Optical Properties of CdZnS nanoparticles by Exploding Wire Technique," Materials Today: Proc., vol. 28, pp. 278–281, 2020.	2020
<b>55.</b>	M. Rana, P. Chowdhury, "Nonlinear optical responses of organic based indole derivative: An experimental and computational study," Materials today: Proceedings, vol. 28, pp. 241-245, 2020.	2020
<b>56.</b>	Pooja and P. Chowdhury, "Optical and electronic properties of CdTe quantum dots in their freezed solid matrix phase and solution phase," Materials today: Proceedings, vol. 28, pp. 201-204, 2020	2020
<b>57.</b>	Pooja, M. Rana, P. Chowdhury, "Optical and structural investigation of CdTe quantum dots in freezed solid phase between PVA polymer matrix," AIP Conference Proceedings, vol. 2265, pp. 030176, 2020.	2020

<b>58.</b>	S. Nasa, S. P. Purohit, "Photoelectric process in GaAs quantum dot", Materials Today: Proceedings, Vol. 28, pp. 350-352, 2020.	2020
<b>59.</b>	S. Singh, H. Pandey, "Ab initio investigation on Half-Heusler CoTiSi," Materials Today: Proceedings, vol. 28, pp. 325--327, 2020.	2020
<b>60.</b>	S. Sharma and M. Kumar, "Band gap tuning and optical properties of BiFeO <sub>3</sub> Nanoparticles," Materials Today: Proc., vol. 18, pp. 168-171, 2020.	2020
<b>61.</b>	S. Sharma and S. Chhoker, "CVD grown doped and Co-doped SnO <sub>2</sub> nanowires and its optical and electrical studies," Materials Today: Proceeding, 2020.	2020
<b>62.</b>	S. Singh, N. Goswami, S.C. Katyal, "Magnetic and dielectric study of nanoparticles of Cu-ferrite prepared by explosion technique," Materials Today: Proceedings, vol. 28, pp. 294-297, 2020.	2020
<b>63.</b>	S. Saxena, R.K. Dwivedi, and V. Khare, "Tuning of a wide range of low resonance frequencies by a novel multi-resonant piezoelectric energy harvester," Materials Today: Proceedings, vol. 28, pp. 86-87, 2020.	2020
<b>64.</b>	V. Kapoor, N. K. Sharma, "Fiber optic SPR sensing using zinc oxide", Materials Today: Proc., 2020.vol. 28, pp. 14-15, 2020.	2020
<b>65.</b>	V. Malik, 'Growth of Domains for two dimensional Coulomb Glass', Material Today:Proceedings, Vol 28 Part1, pages 49-51	2020
<b>66.</b>	Vijayeta Pal, A. K. Singh, Monika Singh, O. P. Thakur and R. K. Dwivedi, "Structural and large electric field-induced bipolar strain study of lead free Bi0.5Na0.5TiO3: Gd Piezoceramics", Materials Today: Proceedings, 28 (2020) 328-331	2020
<b>67.</b>	Y. Bharti, S. Aggarwal, V. Malik, 'Effect of filler length dispersity on two dimensional nano wire composites, Material Today:Proceedings, Vol 28 Part1, pages 251-253	2020

Book/Book Chapter		
S. No.	Reference	Year of publication
1.	S. K. Awasthi, "Engineering Physics-I," CRC Press, Boca Raton, USA, ISBN: 9788192865805, 2016	2016
2.	A. Pathak and A. Banerjee, "Optical quantum information and quantum communication," SPIE Spotlight Series, SPIE Press, ISBN: 9781510602212, 2016	2016
3.	Deepika, P. Chauhan, A. Varshney, D. B. Singh, and V. Sajal, "External Magnetic Field Effect on Absorption of Surface Plasma Waves by Metal Nano-Particles in Plasma and Fusion Science," Apple Press Academy, Canada, ISBN: 9781771884532, 2016.	2016
4.	S. K. Awasthi, "Engineering Physics-II," Techguru Publications, ISBN: 9788192865898, 2017.	2017
5.	J. Singh, P. Singh, and V. Malik, "Analysis of the Firing Behavior of STN-GPe Network in Parkinson Disease," Springer, Singapore, 978-981-10-6889-8, 2018.	2018
6.	A. Pathak and A. Ghatak (Eds.), "Meghnad Saha: A Physicist's Approach to Social Problems," Viva Books, New Delhi, India, ISBN 978-93-89401-71-4, 2019	2019
7.	A. Pathak , "Meghnad Saha: A Physicist's Approach to Social Problems," Viva Books, New Delhi, 978-93-89401-71-4, 2019.	2019
8.	A. Pathak , "Experimental Quantum Mechanics in the Classroom: Testing Basic Ideas of Quantum Mechanics and Quantum Computing Using IBM Quantum Computer," Viva Books, New Delhi, 978-81-309-2995-8, 41-66, 2019	2019
9.	A. Pathak and A. Ghatak (Eds.), "Lecture on Quantum Mechanics: Fundamentals and Applications," Viva Books, New Delhi, India, ISBN 978-81-309-2995-8, 2019.	2019
10.	R. Jain, M. Y. Sheikh, D. Singh, and M. Tripathi, "Intelligent Computing Applications of Sustainable Real-World Systems," Springer, 978-3-030-44758-8, 2020.	2020