

S. No.	Reference	Year of Publication	Impact Factor (Thomson Reuter) (IF>2.0)
1.	P. Bisht, A. Kumar, A. Ghosh, P. E. Vullum, M. F. Sunding, B. D. Belle, and B. R. Mehta, "Tailoring the vertical and planar growth of 2D WS ₂ thin films using pulsed laser deposition for enhanced gas sensing properties," ACS Applied Materials & Interfaces, vol. 14, no. 32, pp. 36789–36800, 2022.	2022	10.380
2.	N. Kaur, A. Ghosh, P. Bisht, A. Kumar, V. Kaushik, N. Kodan, R. Singh and B. R. Mehta, "Enhanced photodetection and a wider spectral range in the In ₂ S ₃ –ZnO 2D–3D heterojunction: combined optical absorption and enhanced carrier separation at the type-II heterojunction," Journal of Materials Chemistry C, vol. 10, no. 38, pp. 14220–14231, 2022, doi: 10.1039/d2tc02281h.	2022	8.067
3.	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", Carbohydr. Polym., vol. 137, pp. 576-583, 2016.	2016	7.182
4.	P.K.Soni,A.Bhatnagar,V.Shukla,M.A.Shaz, "Improved de/re-hydrogenation properties of MgH ₂ catalyzed by graphene templated Ti–Ni–Fe nanoparticles , International Journal of Hydrogen Energy, vol. 47, pp. 21391-21402, June 2022.	2022	7.139
5.	D.B. Pal, A. Singh, A. Bhatnagar, "A review on biomass based hydrogen production technologies , International Journal of Hydrogen Energy, vol. 47, pp. 1461-1480, January 2022.	2022	7.139
6.	V. Sharma, S. Sharda, Neha. Sharma, S. C. Katyal, and P. Sharma, "Chemical ordering and electronic properties of lone pair chalcogenide semiconductors", Prog. Solid. State Ch., vol. 54, pp. 31-44, 2019.	2019	6.353
7.	P. Tripathi, A.Bhatnagar, A. Ramesh, A. K. Vishwakarma, S. Singh, D. B. Baimare, A. D. Deshmukh, B. K. Gupta, and O.N. Srivastava, "Radially aligned CNTs derived carbon hollow cylinder architecture for efficient energy storage", Electrochim. Acta, vol. 354, pp.136650, 2020.	2020	6.216

8.	N. Goswami and P. Sen, "Water-driven Stabilization of Cadmium Sulphide Nanoparticles", <i>Appl. Surf. Sci.</i> , vol. 425, pp. 576-584, 2017.	2017	6.182
9.	M. Vishwakarma, Y. Batra, J. Hadermann, A. Singh, A. Ghosh, and B. R. Mehta, "Exploring the role of graphene oxide as a co-catalyst in the CZTS photocathodes for improved photoelectrochemical properties," <i>ACS Applied Energy Materials</i> , vol. 5, no. 6, pp. 7538–7549, 2022.	2022	6.024
10.	Dan Bahadur Pal, Arvind Singh, Ashish Bhatnagar, "A review on biomass based hydrogen production technologies", <i>International Journal of Hydrogen Energy</i> , Volume 47, Issue 3, 8 January 2022, Pages 1461-1480.	2021	5.860
11.	Sunita Kumari Pandey, Ashish Bhatnagar, Vivek Shukla, Rashmi Kesarwani, Uday Deshpandey, Thakur Prasad Yadav, "Catalytic mechanism of TiO ₂ quantum dots on the de/re-hydrogenation characteristics of magnesium hydride", <i>International Journal of Hydrogen Energy</i> Volume 46, Issue 75, 29 October 2021, Pages 37340-37350	2021	5.860
12.	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", <i>Fuel</i> , vol. 277, pp.118184, 2020.	2020	5.578
13.	I. Raheem, N. M. Mubarak, R. R. Karri, T. Manoj, S. M. Ibrahim, S. A. Mazari and S. Nizamuddin, "Forecasting of energy consumption by G20 countries using an adjacent accumulation grey model," <i>Scientific Reports</i> , vol. 12, no. 1, Aug. 2022, doi: 10.1038/s41598-022-17505-4.	2022	5.516
14.	P. Chowdhury "In silico investigation of phytoconstituents from Indian medicinal herb 'Tinospora cordifolia (giloy)' against SARS-CoV-2 (COVID-19) by molecular dynamics approach", <i>J. Biomol. Struct. Dyn.</i> , vol. 39, pp.1803968, 2020.	2020	5.235
15.	Ashish Bhatnagar, Anant Prakash Pandey, M Sterlin Leo Hudson, Pawan K Soni, Satish K Verma, Vivek Shukla, V Sekkar, Manoj Tripathi, ON Srivastava. "Economical synthesis of highly efficient and tunable carbon aerogels for enhanced storage of CO ₂ emitted from energy sources", <i>International Journal of Energy Research</i> , vol. 45(4), pp. 6285-6292, 2021.	2021	5.164

16.	S. K. Pandey, S. K. Verma, A. Bhatnagar, T. P. Yadav, "Catalytic characteristics of titanium-(IV)-isopropoxide (TTIP) on de/re-hydrogenation of wet ball-milled MgH ₂ /Mg" , International Journal of Energy Research, vol. 46, pp. 17602-17615, August 2022.	2022	5.161
17.	A.P.S. Chauhan and K. Chawla, "Comparative Studies on Graphite and Carbon Black Powders and their Dispersions", J. Mol. Liq., vol. 221, pp. 292-297, 2016.	2016	5.065
18.	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 absorption in MgH ₂ ", Int. J. Hydrog. Energy, vol.45, pp.774-786,2020.	2020	4.939
19.	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",J. Alloys Compd., vol. 654, pp. 460-466, 2016.	2016	4.650
20.	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 ₃ nanoparticles", J. Alloys Compd. , vol. 692, pp. 236-242, 2017.	2017	4.650
21.	S. Sharma and R.K. Dwivedi, "Substitutionally driven phase transition and enhanced multiferroic and electrical properties of (1-x)BiFeO ₃ – (x) Pb(Zr _{0.52} Ti _{0.48})O ₃ ceramics (0.0 ≤ x ≤ 1.00)", J. Alloys Compd., vol. 692, pp. 770 – 773, 2017.	2017	4.650
22.	V. 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 Compd., vol. 714, pp. 725-735, 2017.	2017	4.650
23.	S.Chauhan, M. Kumar, H.Pandey, S.Chhoker, and S.C.Katyal, "Ca–Li substitution driven structural, dynamics of electron density, magnetic and opticalproperties of BiFeO ₃ nanoparticles", J. Alloys Compd., vol. 811, pp. 151965-151967, 2019.	2019	4.650
24.	S. Mishra, K. Thapliyal, A. Parakh, and A. Pathak, "Quantum anonymous veto: a set of new protocols," EPJ Quantum Technology, vol. 9, no. 1, p. 14, May 2022.	2022	4.455

25.	Manoj Tripathi, Ashish Bhatnagar, Krishna Kumar Pandey, Poo Balan Ganesan, " Synthesis, Characterization and Performance Study of Biomass Derived Supercapacitor Electrode", Journal of The Electrochemical Society, vol. 168 pp. 050530, 2021	2021	4.316
26.	R. Surakasi, S. Sripathi, S. P. Nadimpalli, S. Afzal, B. Singh, M. Tripathi, R. A. Hafa, "Synthesis and Characterization of TiO ₂ -Water Nanofluids", Adsorption Science & Technology, vol. 2022, Article ID 3286624, pp 9, April 2022	2022	4.232
27.	S. Mahadevan, and A.P.S. Chauhan, "Investigation of Synthesized Nanosized Copper by Polyol Technique with Graphite Powder", Adv Powder Tech., vol. 27, pp.1852- 1856, 2016.	2016	4.217
28.	S. Singh, N. Goswami, "Tailoring magnetic properties through variation of cations distribution in Zn-Cu ferrite nanoparticles prepared by exploding wire technique", Materials Science and Engineering: B, vol. 278, pp. 115608 (1-10), April 2022.	2022	4.051
29.	Singh S., Goswami N., Mohapatra S.R., Singh A.K., and Kaushik S.D., "Significant magnetic, dielectric and magnetodielectric properties of CuO nanoparticles prepared byexploding wire technique" Materials Science and Engineering B vol. 271, pp. 115301:1-7, 2021.	2021	4.051
30.	Harshlata, Kuldeep Mishra, D.K. Rai, "Studies on ionic liquid based nanocomposite gel polymer electrolyte and its application in sodium battery", Materials Science and Engineering: B, Volume 267, May 2021, 115098.	2021	4.051
31.	S. Gandhi and S. K. Awasthi, "Analysis and detection of women's reproductive hormones using a bistable and reconfigurable 1D annular photonic crystal composed of the Ge ₂ Sb ₂ Te ₅ phase-change material," RSC Advances, vol. 12, no. 47, pp. 30335–30348, 2022, doi: 10.1039/d2ra04238j.	2022	4.036
32.	P. Aggarwal, S. Kaushik, P. Bisht, M. Sharma, A. Singh, B. R. Mehta, and R. Singh, "Centimeter-scale synthesis of monolayer WS ₂ using single-zone atmospheric-pressure chemical vapor deposition: A detailed study of parametric dependence, growth mechanism, and Photodetector Properties," Crystal Growth & Design, vol. 22, no. 5, pp. 3206–3217, 2022.	2022	4.010

33.	S. Sharma and S. Chhoker, "Efficient light harvesting using simple porphyrin-oxide pervoskite system", Sci. Rep. ,vol.10, pp.1-11, 2020.	2020	3.998
34.	C. Kumari, P. Sharma, M. Tanwar, H. Sharma, R. Kumar, and S. Chhoker, "Unveiling quaternary GeSbSeEr chalcogenides as photocatalyst: Degradation of cationic and anionic pollutant in visible light," Optical Materials, vol. 134, p. 113122, Dec. 2022, doi: 10.1016/j.optmat.2022.113122.	2022	3.800
35.	P. Yadav, P. Chowdhury, Effectivity of Repurposed Drugs Against SARSCoV-2 Infections, A Hope for COVID 19: Inhibitor Modelling studies by Docking and Molecular Dynamics, HELIYON, doi.org/10.1016/j.heliyon.2022.e12327.	2022	3.776
36.	C. Kumari, P. Sharma, S. C. Katyal, and S. Chhoker, "Correlation of optical parameters of pure and doped Ge ₁₇ Sb ₈ Se _{75-x} Er _x chalcogenides films using transmission spectra," Optical Materials, vol. 132, p. 112748, Oct. 2022, doi: 10.1016/j.optmat.2022.112748.	2022	3.750
37.	M. Al-Dossari, S. K. Awasthi, A. M. Mohamed, N.S. Abd El-Gawaad, W. Sabra, A. H. Aly." Bio-Alcohol Sensor Based on One-Dimensional Photonic Crystals for Detection of Organic Materials in Wastewater." Materials, vol 15, no 11, pp 4012, June 2022. doi:10.3390/ma15114012	2022	3.623
38.	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	3.575
39.	S. Nasa, and S.P. Purohit, "Linear and third order nonlinear optical properties of GaAs quantum dot in terahertz region", Physica E, vol. 118, pp.113913, 2020.	2020	3.570
40.	P. Malpani, K. Thapliyal, J. Banerji, and A. Pathak, "Enhancement of Non-Gaussianity and Nonclassicality of Photon-Added Displaced Fock State: A Quantitative Approach," Annalen der Physik, p. 2200261, Nov. 2022, doi: 10.1002/andp.202200261.	2022	3.563
41.	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	3.551

42.	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 ₂ -Au nanocomposite in TiO ₂ photoanode", J. Mater. Sci., vol. 53, pp. 8460-8473, 2018.	2018	3.533
43.	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, 124402, 2021	2021	3.408
44.	Himanshu Pandey, Manoj Kumar, D.Tripathi, S.Pandey, "A novel approach to enhance the superconducting properties of La _{1.85} Sr _{0.15} CuO ₄ by inserting Mott insulator Sr ₂ IrO ₄ " Mater. Today Commun. 29, 102936, 2021.	2021	3.383
45.	A. H. Aly, S. K. Awasthi, D. Mohamed, Z. S. Matar, M. Al-Dossari and A. F. Amin."Study on A one-dimensional defective photonic crystal suitable for Organic compound sensing applications", RSC Adv., vol 11, 32973-32980, 2021	2021	3.360
46.	S.Gandhi, S.K. Awasthi and A.H. Aly, "Biophotonic sensor design using a 1D defective annular photonic crystal for the detection of creatinine concentration in blood serum" RSC Advances, vol.11 (43), 26655-26665, 2021.	2021	3.360
47.	M. Das, B. Sen, A. Ray, A. Pathak, "Lower order and higher order entanglement in four-wave mixing process", Ann. Phys. (Berlin) , vol. 530, pp. 1700160, 2018.	2018	3.317
48.	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," Ann. Phys. (Berlin), vol. 531, pp. 1800318, 2019.	2019	3.317
49.	K. Mandal, A. Verma "Higher-order nonclassicality in photon added and subtracted qudit states", Ann. Phys. (Berlin), vol.532, pp.10, 2020.	2020	3.317
50.	S.K. Awasthi, A. Aghajamali, A.M. Mohamed, Z.S. Matar, A.F. Amine, A.H. Aly,"Externally tunable multichannel filtering applications of organic material based 1D magnetic cold-plasma photonic crystals",RSC Advances 12, no. 23, pp 14849-14857, 2022. doi:10.1039/d2ra01755e	2022	3.245

51.	P. Yadav, M. Rana, P. Chowdhury, "DFT and MD simulation investigation of favipiravir as an emerging antiviral option against viral protease (3CLpro) of SARS-CoV-2", Journal of Molecular Structure, Volume 1246, 15 December 2021, 131253.	2021	3.196
52.	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, 013713, 2021.	2021	3.140
53.	V. Mannalath and A. Pathak, "Bounds on semi-device-independent quantum random-number expansion capabilities," Physical Review A, vol. 105, no. 2, p. 022435, February 2022.	2022	3.140
54.	C. Kumari, S. C. Katyal, S. Chhoker, and P. Sharma, "Complex Er-doped selenium-based chalcogenides in the far-infrared region: a structural bonding arrangement study," Physica Scripta, vol. 97, no. 8, p. 085707, Jul. 2022, doi: 10.1088/1402-4896/ac8186.	2022	3.080
55.	B. C. Joshi, A. P. S. Chauhan, N. K. Sharma, and D. Tripathi, "Origin of Heating Inside 3D FINFET and GAA Structures," Silicon, Jul. 2022, doi: 10.1007/s12633-022-02002-0.	2022	2.941
56.	S.Sharma, M. Kumar, and S.Chhoker, "Parameters dependent synthesis of zinc stannate nanowires using CVD and its porphyrin dye loaded optical studies", Vacuum, vol.160, pp. 201-208, 2019.	2019	2.906
57.	H. Juneja, P. Chauhan, and A. Panwar, "Terahertz radiation generation from self-focused amplitude modulated gaussian pulse in non-uniform plasma channel," Optik, vol. 268, p. 169791, Oct. 2022, doi: 10.1016/j.ijleo.2022.169791.	2022	2.840
58.	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	2.799
59.	V. Kapoor and N. K. Sharma, "Effect of oxide layer on the performance of silver based fiber optic surface plasmon resonance sensor," Optical and Quantum Electronics, vol. 54, no. 8, Jun. 2022, doi: 10.1007/s11082-022-03873-8.	2022	2.794

60.	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, 025202, 2021.	2021	2.753
61.	P. Bhandari, and V. Malik, "Effect of increasing disorder on domains of the 2d Coulomb glass", J Phys-Condens Mat. vol. 29, pp. 485402, 2017.	2017	2.707
62.	S.S. Pundir, K. Mishra, and D.K. Rai, "Ion transport studies in nanocomposite polymer electrolyte membrane of PVA-[C4C1Im][HSO4]-SiO2", J Solid State Electrochem., vol 22, pp. 1801-1815, 2018.	2018	2.646
63.	H. Verma, K. Mishra, and D. K. Rai, "Sodium ion conducting nanocomposite polymer electrolyte membrane for sodium ion batteries", J Solid State Electrochem., vol. 24, pp. 521–532, 2020.	2020	2.646
64.	Z.S. Matar, M. Al-Dossari, S.K.Awasthi, D. Mohamed, N.S. Abd El-Gawaad, A.H. Aly "Conventional Biophotonic Sensing Approach for Sensing and Detection of Normal and Infected Samples Containing Different Blood Components." Crystals, vol 12, pp 650, May 2022 https://doi.org/10.3390/cryst12050650	2022	2.589
65.	Z.S. Matar, M. Al-Dossari, S.K. Awasthi, N.S. Abd El-Gawaad, H. Hanafy, R.M. Amin, M.I. Fathy, A.H. Aly, "Theoretical Study on Polycarbonate-Based One-Dimensional Ternary Photonic Structures from Far-Ultraviolet to Near-Infrared Regions of Electromagnetic Spectrum." Crystals, vol 12, no 5, pp 642, April 2022 https://doi.org/10.3390/cryst12050642	2022	2.589
66.	A.H. Aly, S.K. Awasthi, M.A. Mohaseb, Z.S. Matar, A.F. Amin, "MATLAB Simulation-Based Theoretical Study for Detection of a Wide Range of Pathogens Using 1D Defective Photonic Structure." Crystals, vol 12, no 2, pp 220, February 2022. https://doi.org/10.3390/cryst12020220	2022	2.589
67.	C. Malek, M. Al-Dossari, S.K. Awasthi, Z.S. Matar, N.S. El-Gawaad Abd, W. Sabra, A.H. Aly, "Employing the Defective Photonic Crystal Composed of Nanocomposite Superconducting Material in Detection of Cancerous Brain Tumors Biosensor: Computational Study", Crystals, vol 12, no 4, pp 540, April 2022 https://doi.org/10.3390/cryst12040540	2022	2.589

68.	A. H. Aly, S. K. Awasthi, A. M. Mohamed, Z. S. Matar, M. A. Mohaseb, M. Al-Dossari, M. T. Tammam, Z. A. Zaky, A. F. Amin, and W. Sabra, "Detection of Reproductive Hormones in Females by Using 1D Photonic Crystal-Based Simple Reconfigurable Biosensing Design", Crystals, vol. 11(12), 1533, 2021.	2021	2.589
69.	Saxena S. Dwivedi R.K. and Khare V, "Effects of cavity in a multi-resonant piezoelectric energy harvester with one straight and two L-shaped branches", Applied Physics A, 127:798, 1-17 (2021). Published Sep.28, 2021	2021	2.584
70.	A.H. Aly, S.K. Awasthi, A. M. Mohamed, M. Al-Dossari, Z. S. Matar, M. A. Mohaseb, N S Abd El-Gawaad, and A. F. Amin, "1D reconfigurable bistable photonic device composed of phase change material for detection of reproductive female hormones", Physics Scripta, vol. 96, 12, 2021.	2021	2.487
71.	Singh S., Goswami N., "Structural, optical, magnetic and dielectric properties of magnetite (Fe ₃ O ₄) nanoparticles prepared by exploding wire technique" Journal of Materials Science: Materials in Electronics, vol. 32, pp. 26857-26870, 2021.	2021	2.478
72.	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" Journal of Molecular Structure, vol. 1237, pp. 130397, 2021	2021	2.463
73.	R. K. Srivastav, A. Panwar, "Excitation of terahertz surface magnetoplasmons by nonlinear mixing of two lasers on a rippled surface of magnetized n-InSb", Optik, pp 169363, May 2022.	2022	2.443
74.	S. Kumar, P. Chauhan, R. P. Sharma and R. Uma, "Compression of the laser pulse in magnetized plasma having relativistic regime, " Optik, Volume 242, 2021.	2021	2.440
75.	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, 112, 2021.	2021	2.433

76.	Bhandari P., Malik V., Kumar D., Schechter M., ' Relaxation Dynamics of the three dimensional Coulomb glass model'. Physical Review E, vol 103, pp 032150, 2021	2021	2.400
77.	P. Asagodu, K. Thapliyal, and A. Pathak, "Quantum and semi-quantum sealed-bid auction: Vulnerabilities and advantages," Quantum Information Processing, vol. 21, no. 5, pp. 1–17, May 2022.	2022	2.349
78.	R. Joshi, A. Gupta, K. Thapliyal, R. Srikanth, and A. Pathak, "Hide and seek with quantum resources: new and modified protocols for quantum steganography," Quantum Information Processing, vol. 21, no. 5, pp. 1–14, April 2022.	2022	2.349
79.	S. Mishra, K. Thapliyal, and A. Pathak, "Attainable and usable coherence in x states over markovian and non-markovian channels," Quantum Information Processing, vol. 21, no. 2, pp. 1–27, January 2022.	2022	2.349
80.	A. Dutta and A. Pathak, "A short review on quantum identity authentication protocols: how would Bob know that he is talking with Alice?," Quantum Information Processing, vol. 21, no. 11, Nov. 2022, doi: 10.1007/s11128-022-03717-0.	2022	2.349
81.	S. Kumar and A. Pathak, "Experimental realization of quantum anonymous veto protocols using IBM quantum computer," Quantum Information Processing, vol. 21, no. 9, Sep. 2022, doi: 10.1007/s11128-022-03650-2.	2022	2.349
82.	Singh S., Goswami, N., Structural, magnetic and dielectric study of Fe ₂ O ₃ nanoparticles obtained through exploding wire technique, Current Applied Physics 22, 20-29, 2021.	2021	2.281
83.	N. Alam, A. Verma, and A. Pathak, "Higher order nonclassicalities of finite dimensional coherent states: A comparative study", Phys. Lett. A, vol. 382, pp. 1842- 1851, 2018.	2018	2.278
84.	D.Tripathi, Ashish Bhatnagar, Shalini Raj, D.K.Rai, T.K.Dey, "Levitation force of Graphene added bulk MgB ₂ superconductor" Cryogenics 118, 103343, 2021.	2021	2.226
85.	S. S. Pundir, Kuldeep Mishra, and D. K. Rai, "Structural, thermal and electrochemical studies ofPVA/PVP—NH ₄ SCN—[C ₂ C ₁ Im][SCN] polymer electrolyte system", J Mater Sci: Mater Electron (2021) 32:1476–1490.	2021	2.220

86.	Kapoor, V., Sharma, Navneet K., Gupta, S., Kumar, P., "Fiber optic SPR sensing of liquids using copper and zinc oxide", Optik, vol. 238, pp. 166727, 2021.	2021	2.187
87.	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	2.187
88.	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	2.187
89.	P. Yadav, P. Chowdhury, " Optical efficiency of CdTe QDs for metal ion sensing in the presence of different thiol-based capping agents; Chemical Papers, 76, 1833–1850 (2022).	2022	2.146
90.	D. Maikhuri, S.P. Purohit, and K.C. Mathur, "Two photon processes in ZnO quantum dots", Superlattices Microstruct. , vol. 89C, pp. 296-311, 2016.	2016	2.120
91.	S. Akella, K. Thapliyal, H. S. Mani, A. Pathak, "Dynamics of single-mode nonclassicalities and quantum correlations in the Jaynes-Cummings model" arXiv preprint arXiv, 2203.04119, 2022.	2022	2.106
92.	N. Kumari, A. D. Varshney, S. K. Awasthi, L. Shiveshwari, and A. H. Aly, "Polarization-dependent zero-plasma-permittivity, zero-permittivity, and zero-permeability gaps in a 1D photonic crystal composed of lossy double-negative and magnetic cold plasma materials," Journal of the Optical Society of America B, vol. 39, no. 9, p. 2341, Aug. 2022, doi: 10.1364/josab.461503.	2022	2.106
93.	S. Lakhera, K. Devlal, A. Ghosh, P. Chowdhury, M. Rana, "Modelling the DFT structural and reactivity study of feverfew and evaluation of its potential antiviral activity against COVID-19 using molecular docking and MD simulations." Chemical Papers, vol 76, no 5, pp 2759-2776, May 2022.	2022	2.097
94.	M. Sisodia, K. Thapliyal and A. Pathak, "Optical designs for realization of a set of schemes for quantum cryptography" Optical and Quantum Electronics 53 (2021) 206.	2021	2.084

95.	Shreya Sahai, Anshu Varshney, "Solar absorbance enhancement in perovskite solar cells with the inclusion of copper nanoparticles: an architectural study" Opt Quant Electron 53, 111 (2021).	2021	2.084
96.	A. S. Shalaby, S. Alamri, D. Mohamed, A. H. Aly, S. K. Awasthi, Z. S. Matar and M. T. Tamam, "Theoretical study of One-dimensional defect photonic crystal as a high-performance sensor for water-borne bacteria", Optical and Quantum Electronics, vol. 53, 660, 2021	2021	2.084
97.	Singh Vikash, Kumar Pawan, Sharma Subhash, Dwivedi R. K., "Structural, Magneto-Transport Properties of Lead Doped NdMnO ₃ Ceramics ECS J. Solid State Science and Technology, 10[3], 033004 (2021). Published in Mar.25, 2021.	2021	2.070
98.	Sharma Subhash, Kumar Pawan, Singh Vikash, Dwivedi R.K., Siqueiros J.M., Raymond Herrera Oscar, "Structural and electrical behavior of (0.70)BiFe _{1-x} Co _x O ₃ -(0.30)PbTiO ₃ solid solutions prepared by simple sol-gel route." ECS J. Solid State Science and Technology, 10[9], 093006 (2021). Published in Sept.23, 2021.	2021	2.070
99.	N. Kumari, A.D. Varshney, S.K. Awasthi, L. Shiveshwari, A.H. Aly, "Tunable photonic bandgap and reflection phase shift properties of 1D binary photonic crystal consisting of double negative and magnetic cold plasma materials", Physics of Plasmas, vol 29, no 4, pp 042110, April 2022, DOI:10.1063/5.0071898	2022	2.023