

S/n	Faculty_Name	Title of Publication	Journal	Publisher	Author	Volume	Issue	Page	DOI	Impact Factor	Quartile (WOS)	Indexed In	Month of Publication	Year of Publication
1	Sanjay Kumar Sinha	Synthesis and characterization of new biomaterial ZnMg doped HAp for orthopaedic implant	Ceramics International	Elsevier	Anuradha Mahanty, Ranbir Kumar, Deep Shikha, S.K. Sinha	49	17	28965-28973	<a href="https://doi.org/10.1016/j.ceramint.2023.06.165">https://doi.org/10.1016/j.ceramint.2023.06.165</a>	5.6	Q1	SCI/SCIE	September	2023
		Mechanical, structural, corrosion, and dielectric properties of hydroxyapatite doped with varying concentrations of Cu to be used as orthopedic implants	Journal of Materials Engineering and Performance	Springer US	Smit Anand, Sanjay Kumar Sinha	33	24	14368-14380	<a href="https://doi.org/10.1007/s11665-023-08970-7">https://doi.org/10.1007/s11665-023-08970-7</a>	2	Q3	SCI/SCIE	December	2023
2	Sunita Keshri	Crossover to the negative dielectric constant in La <sup>3+</sup> and Dy <sup>3+</sup> doped Co-Zn spinel nanoferrites	Journal of Alloys and Compounds	Elsevier	Manoj Kumar Rout , Sunita Keshri	965		171425	<a href="https://doi.org/10.1016/j.jallcom.2023.171425">https://doi.org/10.1016/j.jallcom.2023.171425</a>	6.3	Q1	SCI/SCIE	November	2023
3	Ratan Kumar Paul	Calculation of Cosmic microwave background radiation parameters using COBE/FIRAS dataset	EXPERIMENTAL ASTRONOMY	Springer Nature Link	Somita Dhal, Sneha Singh, Koustav Konar, R. K. Paul	56			<a href="https://doi.org/10.1007/s10686-023-09904-w">https://doi.org/10.1007/s10686-023-09904-w</a>	2.2	Q2	SCI/SCIE	June	2023
4		Investigation on CMB monopole and dipole using blackbody radiation inversion	Scientific Reports	Springer Nature	Somita Dhal & R. K. Paul				<a href="https://doi.org/10.1038/s41598-023-30414-4">https://doi.org/10.1038/s41598-023-30414-4</a>	3.9	Q1	SCI/SCIE	February	2023
5	Rajeev Kumar Sinha	New benzisoxazole derivative: A potential corrosion inhibitor for mild steel in 0.5 M hydrochloric acid medium -insights from electrochemical and density functional theory studies	Heliyon	Cell Press	Preethi Kumari, Anusha G, J.N Cheerlin Mishma, Rajeev K. Sinha, Aishwarya S. Suvarna, Santosh L. Gaonkar	9	10		<a href="https://doi.org/10.1016/j.heliyon.2023.e21014">https://doi.org/10.1016/j.heliyon.2023.e21014</a>	3.6	Q1	SCI/SCIE	October	2023
6		Thermogravimetric analysis of flax, jute, and UHMWPE fibers and their composites with melamine and phenol formaldehyde resins	Cogent Engineering	Taylor & Francis	Srinivas Shenoy Heckadka, Raghuvir Pai Ballambat, Poornima Bhagavath, Manjeshwar Vijaya Kini, Rajeev K Sinha, M.K Sonali, Diya Sen	10	1		<a href="https://doi.org/10.1080/23311916.2023.2209990">https://doi.org/10.1080/23311916.2023.2209990</a>	2.5	Q2	SCI/SCIE	May	2023
7		Eco-friendly ink formulation of column purified carbon dots from GABA for anticounterfeiting applications	Journal of Photochemistry and Photobiology A: Chemistry	Elsevier	Namratha Ullal , Dhanya Sunil, Suresh D. Kulkarni, Rajeev K. Sinha, Anand P.J., Udaya K. Bhat	444		114914	<a href="https://doi.org/10.1016/j.jpchem.2023.114914">https://doi.org/10.1016/j.jpchem.2023.114914</a>	4.7	Q2	SCI/SCIE	June	2023
8		Synthesis, characterization and photo-physical properties of sugar hydrazones having indole and 1,3,4-oxadiazole moiety	Journal of Luminescence	Elsevier	Swarnagowri Nayak, Santosh L. Gaonkar, Deepak Devadiga, T.N. Ahipa, Rajeev K. Sinha	263		120065	<a href="https://doi.org/10.1016/j.jlumin.2023.120065">https://doi.org/10.1016/j.jlumin.2023.120065</a>	3.6	Q2	SCI/SCIE	November	2023
9		Cardiovascular Marker Proteins Detection in the Blood Serum Using an LSPR Chip Based on Au Nanobipyramid	Journal of Biomedical Photonics & Engineering	Samara University	Prajna N. D., T. Devasia, Rajeev K. Sinha	9	3	030313-1 to11	<a href="https://doi.org/10.18287/JBPE23.09.030313">https://doi.org/10.18287/JBPE23.09.030313</a>			SCOPUS	May	2023
10	Ela Rout	Technological Challenges and Advancement in Proton Conductors: A Review	Energy & Fuels	ACS Publication	D. Vignesh, Ela Rout	37	5		<a href="https://doi.org/10.1021/acs.energyfuels.2c03926">https://doi.org/10.1021/acs.energyfuels.2c03926</a>	5.3	Q1	SCI/SCIE	February	2023
11	Nishi Srivastava	Impact of COVID lockdowns on spatio-temporal variability in land surface temperature and vegetation index	Environmental Monitoring and Assessment	Springer Nature Link	Apurba Tewari & Nishi Srivastava	195		507	<a href="https://doi.org/10.1007/s10661-023-1119-7">https://doi.org/10.1007/s10661-023-1119-7</a>	3	Q3	SCI/SCIE	March	2023
12	Rishi Sharma	Rapid Fabrication of Graphene Layers Over Polymeric Substrates Using Atmospheric Pressure Plasma Jet	IEEE Transactions on Plasma Science	IEEE	Abhilash Bajpai, Neelima Sharma, Prabhat K. Dwivedi, Rishi Sharma	51	3		<a href="https://doi.org/10.1109/TPS.2023.3250394">https://doi.org/10.1109/TPS.2023.3250394</a>	1.5	Q3	SCI/SCIE	March	2023
13	Sanat Kumar Mukherjee	Structural, electronic, optical, and thermoelectric studies on Zintl SrCd <sub>2</sub> Pn <sub>2</sub> (Pn=P/As) compounds for solar cell applications: A First Principle Approach	Journal of Solid State Chemistry	Elsevier	Mumtaz Manzoor, Debidatta Behera, Ramesh Sharma, Muhammad Waqas Iqbal, S.K. Mukherjee, R. Khenata, S. Bin-Omran, Thamraa Alshahrani, E. El Shiekh, T. Ouahrani	326		124188	<a href="https://doi.org/10.1016/j.jssc.2023.124188">https://doi.org/10.1016/j.jssc.2023.124188</a>	3.5	Q1	SCI/SCIE	October	2023

14		Impact of La, Ni-doping on structural and electronic properties of SrTiO <sub>3</sub> for photocatalytic water splitting	Inorganic Chemistry Communications	Elsevier	Z. Aboub, T. Seddik, B. Daoudi, A. Boukraa, Debidatta Behera, M. Batouche, Sanat Kumar Mukherjee	153		110871	<a href="https://doi.org/10.1016/j.inoche.2023.110871">https://doi.org/10.1016/j.inoche.2023.110871</a>	5.4	Q1	SCI/SCIE	July	2023
15		First principles studies on optoelectronics and transport properties of KSrY (Y = Sb, Bi) for renewable energy application	Materials Science and Engineering: B	Elsevier	Debidatta Behera, Samah Al-Qaisi, Mumtaz Manzoor, Ramesh Sharma, Vipul Srivastava, Murefah mana Al-Anazy, E. El Shiekh, Sanat Kumar Mukherjee	297		116765	<a href="https://doi.org/10.1016/j.mseb.2023.116765">https://doi.org/10.1016/j.mseb.2023.116765</a>	4.6	Q2	SCI/SCIE	November	2023
16		Excellent Thermoelectric Performance in KBaTh (Th = Sb, Bi) Based Half-Heusler Compounds and Design of Actuator for Efficient and Sustainable Energy Harvesting Applications	Crystals	MDPI (Multidisciplinary Digital Publishing Institute)	Debidatta Behera, Boumaza Akila, Rabie Amraoui, Salim Kadri, Sanat Kumar Mukherjee, Mostafa M. Salah, Ahmed Saeed	13		11	<a href="https://doi.org/10.3390/cryst13111551">https://doi.org/10.3390/cryst13111551</a>	2.4	Q2	SCI/SCIE	October	2023
17		First-principle investigations on optoelectronics and thermoelectric properties of lead-free Rb <sub>2</sub> InSbX <sub>6</sub> (X = Cl, Br) double perovskites: for renewable energy applications	The European Physical Journal Plus	Springer Nature Link	Debidatta Behera, Batouche Mohammed, Seddik Taieb, Boudjelal Mokhtar, Samah Al-Qaisi & Sanat Kumar Mukherjee	138		520	<a href="https://doi.org/10.1140/epjp/s13360-023-04137-4">https://doi.org/10.1140/epjp/s13360-023-04137-4</a>	2.9	Q2	SCI/SCIE	June	2023
18		First-principles calculations to investigate structural, optoelectronics and thermoelectric properties of lead free Cs <sub>2</sub> GeSnX <sub>6</sub> (X = Cl, Br)	Materials Science and Engineering: B	Elsevier	Debidatta Behera, Sanat Kumar Mukherjee	292		116421	<a href="https://doi.org/10.1016/j.mseb.2023.116421">https://doi.org/10.1016/j.mseb.2023.116421</a>	4.6	Q2	SCI/SCIE	June	2023
19		Theoretical insight on the electronic band structure, mechanical, vibrational and thermodynamic characteristic of antiperovskites RE <sub>3</sub> InN (RE=Y and La)	Materials Today Communications	Elsevier	Debidatta Behera, Aparna Dixit, Binayaka Nahak, Anshuman Srivastava, Ramesh Sharma, R. Khenata, S. Bin-Omran, Shaimaa A.M., Abdel Mohsen, Ashraf M.M. Abdelbacki, Sanat Kumar Mukherjee	35		105618	<a href="https://doi.org/10.1016/j.mtcomm.2023.105618">https://doi.org/10.1016/j.mtcomm.2023.105618</a>	4.5	Q2	SCI/SCIE	July	2023
20		Study of mechanical, optical, and thermoelectric characteristics of Ba <sub>2</sub> XMoO <sub>6</sub> (X = Zn, Cd) double perovskite for energy harvesting	JOURNAL OF COMPUTATIONAL CHEMISTRY	Wiley	Samah Al-Qaisi, Habib Rached, Tahani A. Alrebdi, S. Bouzgarrou, Debidatta Behera, Sanat Kumar Mukherjee, Mohamed Khulii, Mohamed Adam, Ajay Singh Verma, Mohammed Ezzeldien	44	32	2442-2452	<a href="https://doi.org/10.1002/jcc.27209">https://doi.org/10.1002/jcc.27209</a>	4.8	Q2	SCI/SCIE	August	2023
21		Vibrational, mechanical, electronic and thermodynamic properties of rhenium-based perovskites XReO <sub>3</sub> (X = Li, Be) by an ab-initio computation	Materials Science and Engineering: B	Elsevier	Aparna Dixit, Debidatta Behera, Santosh Kumar Tripathi, Anshuman Srivastava, Ramesh Sharma, R. Khenata, Hind Albalawi, Z. Mahmoud, Sanat Kumar Mukherjee	294		116545	<a href="https://doi.org/10.1016/j.mseb.2023.116545">https://doi.org/10.1016/j.mseb.2023.116545</a>	4.6	Q2	SCI/SCIE	August	2023
22		Compositional mapping of Mo-doped ZnO thin films: Mechanical, nano-surface and ToF-SIMS analyses	Journal of Molecular Structure	Elsevier	A.E. Nebatti, A. Zekri, Y. Zakaria, R. Singh, S.K. Mukherjee, A.S. Kadari, M. Guezzoul, K.D. Khodja, B. Amrani, B. Aissa	1286		135566	<a href="https://doi.org/10.1016/j.molstruc.2023.135566">https://doi.org/10.1016/j.molstruc.2023.135566</a>	4.7	Q2	SCI/SCIE	August	2023
23		First principles insight on structural, opto-electronic and transport properties of novel zintl-phase AMg <sub>2</sub> Bi <sub>2</sub> (A=Sr, Ba)	Journal of Solid State Chemistry	Elsevier	Debidatta Behera, Mumtaz Manzoor, Ramesh Sharma, Muhammad Waqas Iqbal, Sanat Kumar Mukherjee	320		123860	<a href="https://doi.org/10.1016/j.jssc.2023.123860">https://doi.org/10.1016/j.jssc.2023.123860</a>	3.5	Q1	SCI/SCIE	April	2023
24		Investigation of the structural, mechanical, optoelectronic and, thermoelectric characteristics of cubic GeTiO <sub>3</sub> : An ab initio study	Materials Today Communications	Elsevier	Mumtaz Manzoor, Debidatta Behera, Ramesh Sharma, Muhammad Waqas Iqbal, Sanat Kumar Mukherjee, Rabah Khenata, Saleh S. Alarfaji, Huda A. Alzahrani	34		105053	<a href="https://doi.org/10.1016/j.mtcomm.2023.105053">https://doi.org/10.1016/j.mtcomm.2023.105053</a>	4.5	Q2	SCI/SCIE	March	2023

25		Insight to the Structural, Electronic, Optical, and Thermoelectric Properties of NaCaSb and KCaSb Half Heusler Compounds: A DFT Approach	JETP Letters	Springer Nature Link	D. Behera & S. K. Mukherjee	117		687-700	<a href="https://doi.org/10.1134/S0021364023600295">https://doi.org/10.1134/S0021364023600295</a>	1.3	Q3	SCI/SCIE	May	2023
26	Dilip Kumar Singh	Continuous Large Area Monolayered Molybdenum Disulfide Growth Using Atmospheric Pressure Chemical Vapor Deposition	ACS Omega	ACS Publication	Rakesh K. Prasad, Dilip K. Singh	8		12	<a href="https://doi.org/10.1021/acsomega.2c07408">https://doi.org/10.1021/acsomega.2c07408</a>	4.3	Q2	SCI/SCIE	March	2023
27		High-Efficiency Photodetector Based on a CVD-Grown WS <sub>2</sub> Monolayer	ACS Applied Electronic Materials	ACS Publication	Rakesh K. Prasad, Koushik Ghosh, Pravat K. Giri, Dai-Sik Kim, Dilip K. Singh	5		7	<a href="https://doi.org/10.1021/acsaem.3c00366">https://doi.org/10.1021/acsaem.3c00366</a>	4.7	Q2	SCI/SCIE	July	2023
28		Controlled Nucleation Sites with Large Coverage Area for Continuous Monolayered WS <sub>2</sub> Growth by Using the CVD Process	Crystal Growth & Design	ACS Publication	Rakesh K. Prasad, Manisha Kumari, Dilip K. Singh	23		11	<a href="https://doi.org/10.1021/acs.cgd.3c00527">https://doi.org/10.1021/acs.cgd.3c00527</a>	3.4	Q1	SCI/SCIE	October	2023
29	Sourabh Lahiri	Exploring outputs from concatenated stochastic heat engines	Journal of Statistical Mechanics - Theory and Experiment	IOP Science	Aradhana Kumari, Rahul Marathe and Sourabh Lahiri				<a href="https://iopscience.iop.org/article/10.1088/1742-5468/ace714/meta">https://iopscience.iop.org/article/10.1088/1742-5468/ace714/meta</a>	1.9	Q2	SCI/SCIE	August	2023
30		Thermodynamics of one and two-qubit nonequilibrium heat engines running between squeezed thermal reservoirs	PHYSICAL STATISTICAL MECHANICS AND ITS APPLICATIONS	Elsevier	Ashutosh Kumar, Sourabh Lahiri, Trilochan Bagarti, Subhashish Banerjee	623		128832	<a href="https://doi.org/10.1016/j.physa.2023.128832">https://doi.org/10.1016/j.physa.2023.128832</a>	3.1	Q2	SCI/SCIE	August	2023
31	Madhu Priya	Machine learning based prediction of phase ordering dynamics	Chaos An Interdisciplinary Journal of Nonlinear Science	AIP Publishing	Swati Chauhan, Swarnendu Mandal, Vijay Yadav, Prabhat K. Jaiswal, Madhu Priya, Manish Dev Shrimali	33		6	<a href="https://doi.org/10.1063/5.0156611">https://doi.org/10.1063/5.0156611</a>	3.2	Q1	SCI/SCIE	June	2023
32	Rajyawardhan Ray	Spin-orbit coupling, orbitally entangled antiferromagnetic order, and collective spin-orbital excitations in Sr <sub>2</sub> VO <sub>4</sub>	Journal of Physics: Condensed Matter	IOP Science	Shubhajyoti Mohapatra, Dheeraj Kumar Singh, Rajyawardhan Ray, Sayandip Ghosh and Avinash Singh	35		4	<a href="https://doi.org/10.1088/1361-648X/aca63e">https://doi.org/10.1088/1361-648X/aca63e</a>	2.6	Q3	SCI/SCIE	December	2022
33	Ramkrishna Dewaanjee	Search for physics beyond the standard model in top quark production with additional leptons in the context of effective field theory	Journal of High Energy Physics	Springer Nature Link	The CMS collaboration	2023		Article No. 68	<a href="https://doi.org/10.1007/JHEP12(2023)068">https://doi.org/10.1007/JHEP12(2023)068</a>	5.5	Q1	SCI/SCIE	December	2023
34		Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV	Journal of High Energy Physic	Springer Nature Link	The CMS collaboration	2023		Article No. 68	<a href="https://doi.org/10.1007/JHEP12(2023)070">https://doi.org/10.1007/JHEP12(2023)070</a>	5.5	Q1	SCI/SCIE	December	2023
35		Observation of four top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV	Physics Letters B	Elsevier	The CMS Collaboration	847		138290	<a href="https://doi.org/10.1016/j.physletb.2023.138290">https://doi.org/10.1016/j.physletb.2023.138290</a>	4.5	Q1	SCI/SCIE	December	2023
36	Pawan Kumar Tiwari	Maxwell-Boltzmann and Druyvesteyn Distribution Functions Expressing the Particle Velocity and the Energy in Sheath Plasmas	Journal of Russian Laser Research	Springer Nature Link	Pawan K. Tiwari, Ravindra Kumar, Kritika Halder & Yeon Soo Lee	44		504-512	<a href="https://doi.org/10.1007/s10946-023-0157-3">https://doi.org/10.1007/s10946-023-0157-3</a>			SCOPUS	November	2023