

S.No.	Title of the Paper	Name of the Authors	Journal Name	Year	Link of the Paper
1	Stacking 2-D Lattices to Construct 3-D Bravais Lattices	J Bhardwaj, OSKS Sastri, V Sharda	Physics Education	2017	http://www.physedu.in/pub/Jul-Sep-2017/PE17-07-447
2	Anisotropic gravitational collapse with linear equation of state	Ayan Chatterjee and Suresh Jaryal	Research journal of Science and Technology	2017	http://dx.doi.org/10.5958/2349-2988.2017.00024.9
3	Direct laser writing of micro-supercapacitors on thick graphite oxide films and their electrochemical properties in different liquid inorganic electrolytes	Kumar R., Joanni E., Singh R.K., da Silva E.T.S.G., Savu R., Kubota L.T., Moshkalev S.A.	Journal of Colloid and Interface Science	2017	https://doi.org/10.1016/j.jcis.2017.08.005
4	Facile and single step synthesis of three dimensional reduced graphene oxide-NiCoO ₂ composite using microwave for enhanced electron field emission propertie	Kumar R., Singh R.K., Singh A.K., Vaz A.R., Rout C.S., Moshkalev S.A.	Applied Surface Science	2017	https://doi.org/10.1016/j.apsusc.2017.04.189
5	Possible Correlation Between Stripe-Like Antiferromagnetic Spin Fluctuations and Superconductivity in ThFeAsN	Kumar J.	Journal of Electronic Materials	2017	https://doi.org/10.1007/s11664-017-5532-7
6	Momentum angular mapping of enhanced Raman scattering of single-walled carbon nanotube	Rai P., Singh T., Brulé T., Bouhelier A., Finot E.	Applied Physics Letters	2017	https://doi.org/10.1063/1.4995987
7	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications	Kumar R., Singh R.K., Singh D.P., Joanni E., Yadav R.M., Moshkalev S.A.	Coordination Chemistry Reviews	2017	https://doi.org/10.1016/j.ccr.2017.03.021
8	Controlled density of defects assisted perforated structure in reduced graphene oxide nanosheets-palladium hybrids for enhanced ethanol electro-oxidation	Kumar R., Savu R., Singh R.K., Joanni E., Singh D.P., Tiwari V.S., Vaz A.R., da Silva E.T.S.G., Maluta J.R., Kubota L.T., Moshkalev S.A	Carbon	2017	https://doi.org/10.1016/j.carbon.2017.02.065
9	Synthesis of self-assembled and hierarchical palladium-CNTs-reduced graphene oxide composites for enhanced field emission properties	Kumar R., Singh R.K., Singh D.P., Vaz A.R., Yadav R.R., Rout C.S., Moshkalev S.A.	Materials and Design	2017	https://doi.org/10.1016/j.matdes.2017.02.089
10	Effect of listening to Vedic chants and Indian classical instrumental music on patients undergoing upper gastrointestinal endoscopy: A randomized control tria	Padam A., Sharma N., Sastri O.S.K.S., Mahajan S., Sharma R., Sharma D.	Indian Journal of Psychiatry	2017	https://doi.org/10.4103/psychiatry.IndianJPsychiatry_314_16
11	Self-Assembled and One-Step Synthesis of Interconnected 3D Network of Fe ₃ O ₄ /Reduced Graphene Oxide Nanosheets Hybrid for High-Performance Supercapacitor Electrode	Kumar R., Singh R.K., Vaz A.R., Savu R., Moshkalev S.A.	ACS Applied Materials and Interfaces	2017	https://doi.org/10.1021/acsami.6b14704

12	Synthesis of reduced graphene oxide nanosheet-supported agglomerated cobalt oxide nanoparticles and their enhanced electron field emission properties	Kumar R., Singh R.K., Vaz A.R., Yadav R.M., Rout C.S., Moshkalev S.A.	New Journal of Chemistry	2017	https://doi.org/10.1039/c7nj02101a
13	Enhanced magnetic performance of iron oxide nanoparticles anchored pristine/ N-doped multi-walled carbon nanotubes by microwave-assisted approach	Kumar R., Singh R.K., Tiwari V.S., Yadav A., Savu R., Vaz A.R., Moshkalev S.A.	Journal of Alloys and Compounds	2017	https://doi.org/10.1016/j.jallcom.2016.11.010
14	Electronic, Mechanical, and Dielectric Properties of Two-Dimensional Atomic Layers of Noble Metals	Kapoor P., Kumar J., Kumar A., Kumar A., Ahluwalia P.K.	Journal of Electronic Materials	2017	https://doi.org/10.1007/s11664-016-4864-z
15	Investigating Sterile Neutrino Flux in the Solar Neutrino Data	Ankush, Rishu Verma, Gazal Sharma and B. C. Chauhan	Adv in High Energy Physics	2018	https://doi.org/10.1155/2019/2598953
16	Gate field controlled and temperature dependent quantum transport in (10,0) carbon nanotube field effect transistor	Singh T., Sastri O.S.K.S., Rai P.	AIP Advances	2018	https://doi.org/10.1063/1.5050668
17	High temperature polymer electrolyte membrane fuel cells with Polybenzimidazole-Ce _{0.9} Gd _{0.1} P ₂ O ₇ and polybenzimidazole-Ce _{0.9} Gd _{0.1} P ₂ O ₇ -graphite oxide composite electrolytes	Singh B., Devi N., Srivastava A.K., Singh R.K., Song S.-J., Krishnan N.N., Konovalova A., Henkensmeier D.	Journal of Power Sources	2018	https://doi.org/10.1016/j.jpowsour.2018.08.076
18	Probing non-unitary CP violation effects in neutrino oscillation experiment	Verma S., Bhardwaj S.	Indian Journal of Physics	2018	https://doi.org/10.1007/s12648-018-1211-7
19	Simple and Fast Approach for Synthesis of Reduced Graphene Oxide-MoS ₂ Hybrids for Room Temperature Gas Detection	Kumar R., Dias W., Rubira R.J.G., Alaferdov A.V., Vaz A.R., Singh R.K., Teixeira S.R., Constantino C.J.L., Moshkalev S.A.	IEEE Transactions on Electron Devices	2018	https://doi.org/10.1109/TED.2018.2851955
20	Rapid and controllable synthesis of Fe ₃ O ₄ octahedral nanocrystals embedded-reduced graphene oxide using microwave irradiation for high performance lithium-ion batterie	Kumar R., Singh R.K., Alaferdov A.V., Moshkalev S.A.	Electrochimica Acta	2018	https://doi.org/10.1016/j.electacta.2018.05.157
21	Quasilocal first law of black hole dynamics from local Lorentz transformation:	Chatterjee A., Ghosh A.	European Physical Journal C	2018	https://doi.org/10.1140/epjc/s10052-018-6021-8
22	Entropy of black holes in N= 2 supergravity	Chatterjee A.	Indian Journal of Physics	2018	https://doi.org/10.1007/s12648-017-1152-6
23	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storag	Kumar R., Joanni E., Singh R.K., Singh D.P., Moshkalev S.A.	Progress in Energy and Combustion Science	2018	https://doi.org/10.1016/j.peccs.2018.03.001
24	Connecting Majorana phases to the geometric parameters of the Majorana unitarity triangle in a neutrino mass matrix mode	Verma S., Bhardwaj S.	Physical Review D	2018	https://doi.org/10.1103/PhysRevD.97.095022

25	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications	Singh D.P., Herrera C.E., Singh B., Singh S., Singh R.K., Kumar R.	Materials Science and Engineering C	2018	https://doi.org/10.1016/j.msec.2018.01.004
26	Fabrication of dense Ce _{0.9} Mg _{0.1} P ₂ O ₇ -PmOn composites by microwave heating for application as electrolyte in intermediate-temperature fuel cells	Singh B., Devi N., Mathur L., Singh R.K., Bhardwaj A., Song S.-J., Henkensmeier D.	Ceramics International	2018	https://doi.org/10.1016/j.ceramint.2017.12.252
27	Microwave-assisted synthesis of palladium nanoparticles intercalated nitrogen doped reduced graphene oxide and their electrocatalytic activity for direct-ethanol fuel cells	Kumar R., da Silva E.T.S.G., Singh R.K., Savu R., Alaferdov A.V., Fonseca L.C., Carossi L.C., Singh A., Khandka S., Kar K.K., Alves O.L., Kubota L.T., Moshkalev S.A	Journal of Colloid and Interface Science	2018	https://doi.org/10.1016/j.jcis.2018.01.028
28	Alloyed monolayers of Cu, Ag, Au and Pt in hexagonal phase: A comprehensive first principles study	Kapoor P., Kumar A., Sharma M., Kumar J., Kumar A., Ahluwalia P.K.	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2018	https://doi.org/10.1016/j.mseb.2017.11.011
29	Probing CP Violation in Neutrino Oscillation Experiments and Leptonic Unitarity Quadrangle	Verma S., Bhardwaj S., Chauhan B.C., Sharma G.	Springer Proceedings in Physics	2018	https://doi.org/10.1007/978-3-319-73171-1_58
30	Search for Sterile Neutrino Signal in the 7Be Solar Neutrino Measurement with KamLAND	Sharma A., Singh G., Sharma G., Bhardwaj S., Verma S., Chauhan B.C.	Springer Proceedings in Physics	2018	https://doi.org/10.1007/978-3-319-73171-1_12
31	Quark-Lepton Complementarity Model Based Predictions for (formula presented) with Neutrino Mass Hierarchy	Sharma G., Bhardwaj S., Chauhan B.C., Verma S.	Springer Proceedings in Physics	2018	https://doi.org/10.1007/978-3-319-73171-1_57
32	Bounds on Sterile Neutrino Component in the Solar Neutrino Flux	Singh G., Sharma A., Sharma G., Bhardwaj S., Verma S., Chauhan B.C.	Springer Proceedings in Physics	2018	https://doi.org/10.1007/978-3-319-73171-1_170
33	Investigating Sterile Neutrino Flux in the Solar Neutrino Data	Ankush, Rishu Verma, Gazal Sharma and B. C. Chauhan	Advances in High Energy Physics, Vol. 2019, 2598953	2019	https://doi.org/10.1155/2019/2598953
34	Investigating the sterile neutrino parameters with QLC in 3 + 1 scenaric	Gazal Sharma and B.C. Chauhan	Mod. Phys. Lett.-A 33 (1), 1950316	2019	https://doi.org/10.1155/2019/4685198
35	Alpha Spectrum of 212 Bi Source Prepared using Electrolysis of Non-Enriched ThNO ₃ Salt	Swapna Gora, B.P. Jithin, VVV Satyanarayana, O.S.K.S. Sastri, BP Ajith	Physics Education (India) 35	2019	http://www.physedu.in/pub/2019/PE18-07-511
36	Measurement Model of an Alpha Spectrometer for Advanced Undergraduate Laboratories	B.P. Jithin, V.V.V. Satyanarayana, S. Gora, O.S.K.S Sastri and B.P Ajith	Physics Education (India) 35	2019	http://www.physedu.in/pub/2019/PE18-08-518
37	CP-Violation phase analysis via nontrivial correlation of quarks and leptons in 3 + 1 scenario	Sharma G., Chauhan B.C.	Modern Physics Letters A	2019	https://doi.org/10.1142/S0217732319503164

38	Model for electroluminescence in single-walled carbon nanotube field effect transistor under transverse magnetic field	Singh T., Rai P.	Materials Research Express	2019	https://doi.org/10.1088/2053-1591/ab4fce
39	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries	Kumar R., Sahoo S., Joanni E., Singh R.K., Tan W.K., Kar K.K., Matsuda A.	Progress in Energy and Combustion Science	2019	https://doi.org/10.1016/j.pecs.2019.100786
40	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives	Kumar R., Sahoo S., Joanni E., Singh R.K., Yadav R.M., Verma R.K., Singh D.P., Tan W.K., Pérez del Pino A., Moshkalev S.A., Matsuda A.	Nano Research	2019	https://doi.org/10.1007/s12274-019-2467-8
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43	Isospin influence on the decay of compound nuclei formed in ^{78,82} Kr + ⁴⁰ Ca and ^{78,86} Kr + ^{40,48} Ca reactions	Verma D.S., Kushmakshi, Rana S.	Nuclear Physics A	2019	https://doi.org/10.1016/j.nuclphysa.2019.06.002
44	Nitrogen-Sulfur Co-Doped Reduced Graphene Oxide-Nickel Oxide Nanoparticle Composites for Electromagnetic Interference Shielding	Kumar R., MacEdo W.C., Jr., Singh R.K., Tiwari V.S., Constantino C.J.L., Matsuda A., Moshkalev S.A.	ACS Applied Nano Materials	2019	https://doi.org/10.1021/acsanm.9b01002
45	Fabrication and electrochemical evaluation of micro-supercapacitors prepared by direct laser writing on free-standing graphite oxide paper	Kumar R., Joanni E., Savu R., Pereira M.S., Singh R.K., Constantino C.J.L., Kubota L.T., Matsuda A., Moshkalev S.A.	Energy	2019	https://doi.org/10.1016/j.energy.2019.05.032
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48	Self-assembled nanostructures of 3D hierarchical faceted-iron oxide containing vertical carbon nanotubes on reduced graphene oxide hybrids for enhanced electromagnetic interface shielding	Kumar R., Alaferdov A.V., Singh R.K., Singh A.K., Shah J., Kotnala R.K., Singh K., Suda Y., Moshkalev S.A.	Composites Part B: Engineering	2019	https://doi.org/10.1016/j.compositesb.2018.12.047

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50	Coercivity enhancement and magnetic property evaluation of Bi doped Mn ₂ Si	Anand K., Christopher N., Kumar J., Gupta A., Singh N.	Journal of Magnetism and Magnetic Materials	2019	https://doi.org/10.1016/j.jmmm.2018.12.040
51	Joining spacetimes on fractal hypersurfaces	Chatterjee A., Anand A.	Nuclear Physics B	2019	https://doi.org/10.1016/j.nuclphysb.2019.01.020
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53	Microwave-Assisted Modification of Graphene and Its Derivatives: Synthesis, Reduction and Exfoliation	Devi N., Kumar R., Singh R.K.	Carbon Nanostructures	2019	https://doi.org/10.1007/978-981-32-9057-0_12
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62	Magic neutrino mass model with broken $\mu - \tau$ symmetry and leptogenesis	Verma S., Kashav M.	Journal of Physics G: Nuclear and Particle Physics	2020	https://doi.org/10.1088/1361-6471/ab7be9
63	Tuning of Structural Transition Pressure and Electronic Properties of Alkaline Earth Chalcogenides by Isoelectronic Substitution	Nag A., Kumari A., Kumar J.	Journal of Electronic Materials	2020	https://doi.org/10.1007/s11664-020-08196-6
64	Exponential Corrections to Black Hole Entropy	Chatterjee A., Ghosh A.	Physical Review Letters	2020	https://doi.org/10.1103/PhysRevLett.125.041302
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68	A Comparison of X-Ray Photon Indices among the Narrow- And Broad-line Seyfert 1 Galaxies	Ojha V., Chand H., Dewangan G.C., Rakshit S.	Astrophysical Journal	2020	https://doi.org/10.3847/1538-4357/ab94ac
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70	Strain tunable Schottky barriers and tunneling characteristics of borophene/MX ₂ van der Waals heterostructures	Katoch N., Kumar A., Sharma R., Ahluwalia P.K., Kumar J.	Physica E: Low-Dimensional Systems and Nanostructures	2020	https://doi.org/10.1016/j.physe.2019.113842
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77	Gamma Spectra of Non-Enriched Thorium Sources using PIN Photodiode and PMT based Detectors	BP Jithin, S Gora, VVV Satyanarayana, OSKS Sastri, BP Ajith	Physics Education 36 (2)	2020	http://www.physedu.in/pub/2020/PE19-12-600
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82	Dynamical horizons and supertranslation transitions of the horizon	Chatterjee A., Ghosh A.	Physical Review D	2021	https://doi.org/10.1103/PhysRevD.103.024046
83	Enhanced Fission Probability of Even-Z Fragments in the Decay of Hot and Rotating ²¹⁰ Rn* Compound System	Dalip Singh Verma, Kushmakshi	J. Nucl. Phys. Mat. Sci. Rad. A.	2021	https://doi.org/10.15415/jnp.2021.91008
84	Solvent treatment on cloud point for dewaxing in crude oil industries	A. Tripathy, G. Nath, G. Sahoo and R. Paikaray	Journal of Scientific and Industrial Research	2021	http://nopr.niscair.res.in/handle/123456789/56132
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88	Broken scaling neutrino mass matrix and leptogenesis based on A4 modular invariance	Kashav M., Verma S.	Journal of High Energy Physics	2021	https://doi.org/10.1007/JHEP09(2021)100
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93	Appearance versus disappearance of broad absorption line troughs in quasars	Mishra S., Vivek M., Chand H., Joshi R.	Monthly Notices of the Royal Astronomical Society	2021	https://doi.org/10.1093/mnras/stab782
94	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding	Kumar R., Sahoo S., Joanni E., Singh R.K., Tan W.K., Kar K.K., Matsuda A.	Carbon	2021	https://doi.org/10.1016/j.carbon.2021.02.091
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