

**Details of Papers Published in the Academic Year 2021-2022**

<b>S. No.</b>	<b>Faculty Name</b>	<b>Title of Paper</b>	<b>DOI</b>	<b>Citation</b>	<b>Paper Published in Journal or Conference Publication</b>
1	Dr. M.S. Mehata	Exploration of grown cobalt-doped zinc oxide nanoparticles and photodegradation of industrial dye	10.1016/j.materresbull.2022.111795	5	Journal
2	Dr. M.S. Mehata	Synthesis of diamagnetic ZnO nano-crystallites via sol-gel method and their photocatalytic activity	10.56042/ijems.v29i4.48695	0	Journal
3	Dr. M.S. Mehata	Green Synthesis of Silver Nanoparticles Using Abutilon theophrasti Leaves and their Photocatalytic Activity for Water Treatment	10.1007/978-981-16-7691-8_6	0	Journal
4	Dr. M.S. Mehata	Solvatochromism and estimation of ground and excited state dipole moments of 6-aminoquinoline	10.1016/j.saa.2021.120498	6	Journal

5	Dr. M.S. Mehata	Sunlight-driven MoS <sub>2</sub> nanosheets mediated degradation of dye (crystal violet) for wastewater treatment	10.1016/j.molstruc.2021.131651	12	Journal
6	Dr. M.S. Mehata	A parallel investigation of un-doped and manganese ion-doped zinc selenide quantum dots at cryogenic temperature and application as an optical temperature sensor	10.1016/j.matchemphys.2021.125349	7	Journal
7	Dr. M.S. Mehata	Synthesis and characterization of thermally-evaporated CdS thin-films	10.1016/j.matpr.2022.06.111	1	Journal
8	Dr. M.S. Mehata	Surface plasmon resonance allied applications of silver nanoflowers synthesized from Breynia vitis-idaea leaf extract	10.1039/D1DT03592D	11	Journal
9	Dr. M.S. Mehata	Catalytic activity of silver nanoparticles synthesized using Crinum asiaticum	10.1016/j.matpr.2021.12.468	2	Journal

		(Sudarshan) leaf extract			
10	Dr. M.S. Mehata	Photoluminescence turn-off based dual analytes (Hg <sup>2+</sup> and Pb <sup>2+</sup> ) sensor in aqueous medium using 3-mercaptopropionic acid protected Mn <sup>2+</sup> doped ZnSe quantum dots	10.1016/j.cplett.2021.139270	1	Journal
11	Dr. M.S. Mehata	Temperature-dependent photoluminescence and decay times of different phases of grown TiO <sub>2</sub> nanoparticles: Carrier dynamics and trap states	10.1016/j.ceramint.2021.08.147	7	Journal
12	Dr. M.S. Mehata	Temperature-Dependent Electric Field-Induced Optical Transitions of 2D Molybdenum Disulfide (MoS <sub>2</sub> ) Thin Films: Temperature-Dependent Electroabsorption and Absorption	10.1021/acs.jpcc.1c06706	2	Journal

13	Dr. Amrish K. Panwar	<b>Thermal-Electrochemical Modeling and Analysis of Different Cathode-Anode Pairs for Lithium-ion Battery</b>	10.4316/AECE.2021.03007	2	Journal
14	Dr. Amrish K. Panwar	Effect of Cr doping on Li <sub>2</sub> ZnTi <sub>3</sub> O <sub>8</sub> as alternative anode material to enhance electrochemical properties of lithium-ion batteries	10.1007/s00339-022-05440-0	0	Journal
15	Dr. Amrish K. Panwar	Synthesis, characterization, and electrochemical investigation of citric-acid assisted nickel manganese oxide as anode material	10.1557/s43580-022-00293-4	0	Journal
16	Dr. Amrish K. Panwar	Ultrafast probing of indium doping on SnTe topological insulator	10.1016/j.physb.2021.413656	0	Journal
17	Dr. Amrish K. Panwar	Effect of carbon shell over NaCrO <sub>2</sub> core by C <sub>2</sub> H <sub>2</sub> decomposition to enhance electrochemical properties for	10.1016/j.apsusc.2021.151449	0	Journal

		rechargeable Sodium-ion batteries			
18	Dr. Amrish K. Panwar	Multiscale Modeling and Experimental Characterization for Enhancement in Electrical, Mechanical, and Thermal Performances of Lithium-Ion Battery	10.3389/fenrg.2022.851377	0	Journal
19	Dr. Amrish K. Panwar	Synthesis and electrochemical performance of Acetylene gas decomposed Fe-Based Layered Oxide cathode material for Sodium-Ion Batteries	10.36909/jer.ICAPIE.15099	0	Journal
20	Dr. Kamal Kishor	Energy transfer dynamics in thermally stable Sm <sup>3+</sup> /Eu <sup>3+</sup> co-doped AEAIBS glasses for near UV triggered photonic device applications	<a href="https://doi.org/10.1016/j.jnoncrysol.2021.121392">https://doi.org/10.1016/j.jnoncrysol.2021.121392</a>	4	Journal
21	Dr. Kamal Kishor	Ultrasensitive dual-band terahertz	<a href="https://doi.org/10.1016/j.optcom.2022.128667">https://doi.org/10.1016/j.optcom.2022.128667</a>	1	Journal

		metasurface sensor based on all InSb resonator			
22	Dr. Mukhtiyar Singh	A first-principle study of electronic, thermoelectric, and optical properties of sulfur doped c-HfO <sub>2</sub>	10.1088/1402-4896/ac7678	1	Journal
23	Dr. Mukhtiyar Singh	Ab-initio study of topological phase tuning in Half-Heusler YPdBi compound	10.1016/j.physb.2022.414056	0	Journal
24	Dr. Mukhtiyar Singh	Coherence-based inequality for the discrimination of three-qubit GHZ and W class	10.1007/s11128-022-03512-x	1	Journal
25	Dr. Mukhtiyar Singh	Defects assisted luminescence in m-HfO <sub>2</sub> nanocrystals: An experimental and theoretical study	10.1016/j.ijleo.2021.168121	3	Journal
26	Dr. Mukhtiyar Singh	Electronic, thermoelectric, and optical studies of cubic Hf <sub>1-x</sub> Ti <sub>x</sub> O <sub>2</sub> : An attempt to enhance the key parameters	10.1016/j.jssc.2021.122829	3	Journal

27	Dr. Mukhtiyar Singh	Investigation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> and CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> based perovskite solar cells with CuInSe <sub>2</sub> nanocrystals	10.1016/j.ijleo.2021.167839	5	Journal
28	Dr. Mukhtiyar Singh	Investigation of electronic, mechanical and thermoelectric properties of quaternary Heusler compounds ZrRhTiZ (Z = In, Al)	10.1016/j.matpr.2022.04.483	0	Conference
29	Dr. Mukhtiyar Singh	Pressure-induced topological phase transition in XMR material YbAs: a first-principles study	10.1140/epjp/s13360-022-02841-1	0	Journal
30	Dr. Mukhtiyar Singh	Realizing high thermoelectric performance in p-type RbZn <sub>4</sub> P <sub>3</sub> Zintl compound: a first-principles investigation	10.1007/s10853-022-06953-y	1	Journal
31	Dr. Mukhtiyar Singh	Structural, electronic and topological properties of NaCaBi and KBaBi compounds	10.1016/j.jpccs.2021.110416	2	Journal

31	Dr. Mukhtiyar Singh	Theoretical study of highly efficient CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> based perovskite solar cell with CuInS <sub>2</sub> quantum dot	10.1088/1361-6641/ac4325	2	Journal
32	Dr. Renuka Bokolia	Improvement in photovoltaic response of bismuth ferrite by tuning its ferroelectric and bandgap properties	<a href="https://doi.org/10.1007/s10854-020-04925-z">https://doi.org/10.1007/s10854-020-04925-z</a>	1	Journal
33	Dr. Renuka Bokolia	Structural properties of Strontium Bismuth Niobate (SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ) ferroelectric ceramics	<a href="https://doi.org/10.1016/j.matpr.2021.05.522">https://doi.org/10.1016/j.matpr.2021.05.522</a>	3	Conference
34	Dr. Renuka Bokolia	Effect of Er <sup>3+</sup> ion doping on structural, ferroelectric and up/down conversion luminescence in BaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ceramic	<a href="https://doi.org/10.1016/j.matpr.2021.05.545">https://doi.org/10.1016/j.matpr.2021.05.545</a>	3	Conference
35	Dr. Renuka Bokolia	Enhanced upconversion luminescence and optical temperature sensing performance in Er <sup>3+</sup> doped BaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ferroelectric ceramic	<a href="https://doi.org/10.1016/j.ceramint.2021.09.314">https://doi.org/10.1016/j.ceramint.2021.09.314</a>	9	Journal



36	Dr. Renuka Bokolia	<u>Structural and photoluminescence properties of Er<sup>3+</sup> doped SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> ceramics</u>	<a href="https://doi.org/10.1016/j.matpr.2021.05.520">https://doi.org/10.1016/j.matpr.2021.05.520</a>	1	Conference
37	Prof. Vinod Singh	Hydrogen induced structural modifications in size selected Pd-Carbon core-shell NPs: Effect of carbon shell thickness, size and pressure	<a href="https://doi.org/10.1016/j.ijhydene.2022.01.245">https://doi.org/10.1016/j.ijhydene.2022.01.245</a>		Journal
38	Prof. Vinod Singh	Carbon Nanotubes in Emerging Photovoltaics: Progress and Limitations	<a href="https://doi.org/10.1109/JPHOTOV.2021.3113317">https://doi.org/10.1109/JPHOTOV.2021.3113317</a>	1	Journal
39	Prof. Vinod Singh	Effect of different precursors on morphology of CVD synthesized MoSe <sub>2</sub>	<a href="https://doi.org/10.1016/j.matpr.2022.01.127">https://doi.org/10.1016/j.matpr.2022.01.127</a>	2	Jornal
40	Prof. Vinod Singh	Surface Plasmon resonance implemented silver thin film PCF sensor with multiple – Hole microstructure for wide ranged refractive index detection	<a href="https://doi.org/10.1016/j.matpr.2022.04.598">https://doi.org/10.1016/j.matpr.2022.04.598</a>	4	Journal

41	Prof. Vinod Singh	Conductivity and Structure Correlation in Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Pyrochlore for Oxide Fuel Cell Technology	DOI: 10.1007/978-981-16-7691-8_21		Conference
42	Prof. Vinod Singh	Structural Properties of TiS <sub>2</sub> /MWCNTs Hybrid Nanostructures	DOI: 10.1007/978-981-16-7691-8_14		Conference
43	Prof. Vinod Singh	Nanodiamonds—Synthesis Techniques, Properties and Applications in Photovoltaics	DOI: 10.1007/978-981-16-7691-8_13		Conference
44	Prof. Vinod Singh	Synthesis of Deformation Resistant Palladium (Pd) Nanoparticle Layer	DOI: 10.1007/978-981-16-7691-8_7		Conference
45	Dr Bharti Singh	Investigating the role of chalcogen atom in the piezoelectric performance of PVDF/TMDCs based flexible nanogenerator	<a href="http://dx.doi.org/10.1016/j.energy.2021.122125">http://dx.doi.org/10.1016/j.energy.2021.122125</a>	1	Journal
46	Dr. Bharti Singh	Interfacial interaction of plasmonic nanoparticles (Ag,	<a href="http://dx.doi.org/10.1016/j.mseb.2021.115403">http://dx.doi.org/10.1016/j.mseb.2021.115403</a>	10	journal

		Au) decorated floweret TiO <sub>2</sub> nanorod hybrids for enhanced visible light driven photocatalytic activity			
47	Dr. Bharti Singh	Improved resistive switching of RGO and SnO <sub>2</sub> based resistive memory device for non-volatile memory application	<a href="http://dx.doi.org/10.1016/j.jallcom.2022.166196">http://dx.doi.org/10.1016/j.jallcom.2022.166196</a>	1	Journal
48	Dr. Bharti Singh	Recent trends in 2D materials and their polymer composites for effectively harnessing mechanical energy	<a href="http://dx.doi.org/10.1016/j.isci.2022.103748">http://dx.doi.org/10.1016/j.isci.2022.103748</a>	10	Journal
49	Dr. Bharti Singh	Effect of variation of MoS <sub>2</sub> concentration on the piezoelectric performance of PVDF-MoS <sub>2</sub> based flexible nanogenerator	<a href="http://dx.doi.org/10.1016/j.matpr.2021.06.084">http://dx.doi.org/10.1016/j.matpr.2021.06.084</a>	1	Conference
50	Prof. Rishu Chaujar	Analog and RF Performance Evaluation of Junctionless Accumulation Mode	<a href="https://doi.org/10.1007/s12633-020-00910-7">https://doi.org/10.1007/s12633-020-00910-7</a>	31	Journal

		(JAM) Gate Stack Gate All Around (GS-GAA) FinFET			
51	Prof. Rishu Chaujar	TCAD Temperature Analysis of Gate Stack Gate All Around (GS-GAA) FinFET for Improved RF and Wireless Performance	<a href="https://doi.org/10.1007/s12633-021-01040-4">https://doi.org/10.1007/s12633-021-01040-4</a>	20	Journal
52	Prof. Rishu Chaujar	Performance enhancement in a novel amalgamation of arsenide/antimonide tunneling interface with charge plasma junctionless-TFET	<a href="https://doi.org/10.1016/j.aeue.2021.153669">https://doi.org/10.1016/j.aeue.2021.153669</a>	10	Journal
53	Prof. Rishu Chaujar	Design and Investigation of Recessed-T-Gate Double Channel HEMT with InGaN Back Barrier for Enhanced Performance	<a href="https://doi.org/10.1007/s13369-021-06157-7">https://doi.org/10.1007/s13369-021-06157-7</a>	8	Journal
54	Prof. Rishu Chaujar	Gate Oxide Variability Analysis of a Novel 3 nm Truncated Fin–FinFET for High	<a href="https://doi.org/10.1007/s12633-020-00734-5">https://doi.org/10.1007/s12633-020-00734-5</a>	11	Journal

		Circuitry Performance			
55	Prof. Rishu Chaujar	Band gap and gate metal engineering of novel heteromaterial InAs/GaAs-based JLTFET for improved wireless applications	<a href="https://doi.org/10.1007/s10854-020-05064-1">https://doi.org/10.1007/s10854-020-05064-1</a>	7	Journal
56	Prof. Rishu Chaujar	Investigation of electrical/analog performance and reliability of gate metal and source pocket engineered DG-TFET	<a href="https://doi.org/10.1007/s00542-020-04845-2">https://doi.org/10.1007/s00542-020-04845-2</a>	4	Journal
57	Prof. Rishu Chaujar	Reliability of Sub-20 nm Black Phosphorus Trench (BP-T) MOSFET in High-Temperature Harsh Environment	<a href="https://doi.org/10.1007/s12633-020-00531-0">https://doi.org/10.1007/s12633-020-00531-0</a>	2	Journal
58	Prof. Rishu Chaujar	Analysis of a Novel Nanoscale Vacuum Channel TF-FinFET	<a href="https://doi.org/10.1007/s12633-021-01103-6">https://doi.org/10.1007/s12633-021-01103-6</a>	0	Journal
59	Prof. Rishu Chaujar	Assessment of distinct subcortical and cortical contributions to affect and approach/withdrawal	<a href="https://doi.org/10.1037/bne0000481">https://doi.org/10.1037/bne0000481</a>	1	Journal

		behavior by means of resting-state functional connectivity approach.			
60	Prof. Rishu Chaujar	A Numerical Study of Analog Parameter of Negative Capacitance Field Effect Transistor with Spacer	10.1109/ICSC53193.2021.9673324	4	Conference
61	Prof. Rishu Chaujar	TCAD Analysis and Simulation of Double Metal Negative Capacitance FET (DM NCFET)	10.1109/DevIC50843.2021.9455922	6	Conference
62	Prof. Rishu Chaujar	Technology Computer Aided Design of a Novel Fully Gate Covered Channel Junctionless SOI FinFET for high performance analog application	10.1109/DevIC50843.2021.9455801	2	Conference
63	Prof. Rishu Chaujar	Lower Fin Modulation Analysis for a Novel 5nm Top Bottom Gated Junctionless FinFET for improved performance	10.1109/DevIC50843.2021.9455834	2	Conference

64	Prof. Rishu Chaujar	The Performance Analysis of 70nm T-gate InAlN/AlN MOS-HEMT using Graded Buffer	10.1109/DevIC50843.2021.9455887	2	Conference
65	Prof. Rishu Chaujar	Recessed Channel Carbon Nanotube Truncated Fin Finfet for High Performance ULSI Applications	10.1109/DevIC50843.2021.9455799	1	Conference
66	Prof. Rishu Chaujar	Investigation of TF-FinFET Based Biosensor for Early Diagnosis of Protein Carrying Diseases	10.1109/DevIC50843.2021.9455938	1	Conference
67	Prof. Rishu Chaujar	Static Performance Assessment of Junctionless Accumulation Mode Gate Stack Gate All Around (JAM-GS-GAA) FinFET Under Severe Temperature	10.1109/ICSC53193.2021.9673255	0	Conference
68	Prof. Rishu Chaujar	Effect of Gate Oxide Material Variability on The Analog Performance of T-Gate GaN-MOS-HEMT with Graded Buffer	10.1109/ICSC53193.2021.9673466	0	Conference

69	Prof. Rishu Chaujar	Electrostatic Analysis of Ferroelectric and High Dielectric Layer Assisted MOSFET	10.1109/ICSC53193.2021.9673258	0	Conference
70	Prof. Rishu Chaujar	Analog Analysis of Novel Ferroelectric-Dual Material Oxide Stack-Double Gate FET	10.1109/ICCES51350.2021.9489168	0	Conference
71	Prof. Rishu Chaujar	A Comparative Investigation on Characteristics of Conventional MOSFET and Ferroelectric Thin Film Modified FET	10.1109/DevIC50843.2021.9455861	0	Conference
72	Prof. Rishu Chaujar	Simulation of perovskite solar cell employing ZnO as electron transport layer (ETL) for improved efficiency	<a href="https://doi.org/10.1016/j.matpr.2020.07.267">https://doi.org/10.1016/j.matpr.2020.07.267</a>	13	Conference
73	Prof. Rishu Chaujar	Investigation of a novel 5nm top bottom gated junctionless FinFET for improved switching and analog performance	10.1088/1742-6596/1921/1/012100	3	Conference



74	Prof. Rishu Chaujar	Simulation and Performance Analysis of novel InN-GaN-BTG-MOSFET	10.1109/DevIC50843.2021.9455763	0	Conference
75	Prof. Suresh C. Sharma	Kinetic theory of effect of dust charge fluctuations on the parametric decay of lower hybrid wave instability by relativistic runaway electrons in tokamak	10.1063/5.0041282	5	Journal
76	Prof. Suresh C. Sharma	Investigations on the effect of process parameters on the growth of vertically oriented graphene sheet in plasma enhanced chemical vapor deposition system	<a href="https://doi.org/10.1002/ctpp.202100069">https://doi.org/10.1002/ctpp.202100069</a>	0	Journal
77	Prof. Suresh C. Sharma	Amorphous to crystalline transformation of indium sulphide powders on thermal treatment: studies by x-ray photoelectron spectroscopy and Raman spectroscopy	<a href="https://doi.org/10.1016/j.elspec.2021.147119">https://doi.org/10.1016/j.elspec.2021.147119</a>	1	Journal

78	Prof. Suresh C. Sharma	Plasma-based Nanoarchitectonics for Vertically Aligned Dual -Metal Carbon Nanotube Field Effect Transistor (VA-DMCNFET) Device: Effect of Plasma Parameters on Transistor Properties	<a href="https://doi.org/10.1007/s00339-021-05096-2">10.1007/s00339-021-05096-2</a>	5	Journal
79	Prof. Suresh C. Sharma	Effect of Plasma Control Parameters on the growth of nitrogen-doped nanocone-vertical graphene hybrid: Theoretical Investigations	<a href="https://doi.org/10.1007/s11090-022-10229-3">10.1007/s11090-022-10229-3</a>	0	Journal
80	Prof. Suresh C. Sharma	Investigations on plasma pre-treatment of catalyst film and catalyzed growth of carbon nanotubes	<a href="https://doi.org/10.1109/TPS.2022.3155172">https://doi.org/10.1109/TPS.2022.3155172</a>	1	Journal
81	Prof. Suresh C. Sharma	Performance Evaluation & Linearity Distortion Analysis for Plasma-Assisted Dual-Material Carbon Nanotube Field Effect Transistor	<a href="https://doi.org/10.1007/s12633-022-01930-1">http://dx.doi.org/10.1007/s12633-022-01930-1</a>	1	Journal

		with a SiO <sub>2</sub> -HfO <sub>2</sub> Stacked Gate-Oxide Structure (DM-SGCNFET)			
82	Prof. Suresh C. Sharma	In the existence of a transverse dc electric field, the kinetic theory of current-driven EIC waves excitation in a magnetized dusty plasma	<a href="https://doi.org/10.1002/ctpp.202200073">https://doi.org/10.1002/ctpp.202200073</a>	0	Journal
83	Prof. Suresh C. Sharma	Impact of plasma process parameters on the growth of vertically aligned carbon nanotube array and its optimization as field emitters	<a href="http://dx.doi.org/10.1140/epjp/s13360-022-03005-x">http://dx.doi.org/10.1140/epjp/s13360-022-03005-x</a>	0	Journal
84	Prof. Suresh C. Sharma	Neutral Beam Driven Ion Cyclotron Instability of lower hybrid wave in a tokamak plasma	<a href="https://doi.org/10.1063/5.0102140">https://doi.org/10.1063/5.0102140</a>		Journal
85	Prof. Suresh C. Sharma	Beam-driven Whistler mode Nonlinear saturation and Turbulence in the Magnetopause	<a href="https://doi.org/10.1063/5.0102140">https://doi.org/10.1063/5.0102140</a>	0	Journal

86	Prof. Suresh C. Sharma	Exploration of Novel Hafnium Oxide (HfO <sub>2</sub> ) based Plasma-Assisted Gate All Around Carbon Nanotube FET (GAA-CNTFET) for high sensing applications	<a href="https://doi.org/10.1063/5.0098108">https://doi.org/10.1063/5.0098108</a>	1	Journal
87	Prof. Suresh C. Sharma	Impact of PECVD Characteristics on metrics of a Plasma Assisted vertically aligned Carbon Nanotube FET (VA-CNTFET) device	<a href="https://doi.org/10.1109/5NANO53044.2022.9828950">https://doi.org/10.1109/5NANO53044.2022.9828950</a>	0	Conference
88	Prof. Suresh C. Sharma	Numerical Analysis on H <sub>2</sub> Plasma Assisted growth of Graphitic Leaves on Carbon Nanotube	<a href="https://doi.org/10.1109/5NANO53044.2022.9828987">https://doi.org/10.1109/5NANO53044.2022.9828987</a>	0	Conference
89	Prof. Suresh C. Sharma	Polarization Reversal of Oblique Electromagnetic Wave in Collisional Beam-Hydrogen Plasma,	<a href="https://doi.org/10.2528/PIERC22092526">https://doi.org/10.2528/PIERC22092526</a>	0	Journal
90	Dr. Yogita Kalra	Design of photonic crystal OR gate with multi-input	<a href="https://doi.org/10.1016/j.matpr.2021.04.252">https://doi.org/10.1016/j.matpr.2021.04.252</a>		Journal

		processing capability on a single structure			
91	Dr. Yogita Kalra	Design of hourglass nanoantenna for magnetic field enhancement	<a href="https://doi.org/10.1016/j.optcom.2020.126511">https://doi.org/10.1016/j.optcom.2020.126511</a>		Journal
92	Dr. Yogita Kalra	Plasmon assisted tunnelling through silver nanodisk dimer-optical properties and quantum effects	<a href="https://doi.org/10.1007/s11082-021-02866-3">https://doi.org/10.1007/s11082-021-02866-3</a>		Journal
93	Dr Yogita Kalra	Electromagnetically induced transparency-based metal dielectric metamaterial and its terahertz sensing application	<a href="https://doi.org/10.1364/AO.442948">https://doi.org/10.1364/AO.442948</a>		Journal
94	Prof. R.K. Sinha	Additive manufacturing for metallic spinal implants: A systematic review	<a href="https://doi.org/10.1016/j.stlm.2021.100021">https://doi.org/10.1016/j.stlm.2021.100021</a>	11	Journal
95	Prof. R.K. Sinha	Mid-infrared supercontinuum generation in soft-glass specialty optical fibers: A review	<a href="https://doi.org/10.1016/j.pquantelec.2021.100342">https://doi.org/10.1016/j.pquantelec.2021.100342</a>	14	Journal

96	Prof. R.K. Sinha	All-Dielectric Metasurface for Sensing Microcystin-LR	<a href="https://doi.org/10.3390/electronics10111363">https://doi.org/10.3390/electronics10111363</a>	9	Journal
97	Prof. R.K. Sinha	Zero-Index Metamaterials	<a href="https://doi.org/10.1007/978-981-16-0189-7_2">https://doi.org/10.1007/978-981-16-0189-7_2</a>	2	Chapter
98	Prof. R.K. Sinha	High-efficient photoacoustic generation with an ultrathin metallic multilayer broadband absorber	<a href="https://doi.org/10.1364/OE.420138">https://doi.org/10.1364/OE.420138</a>	6	Journal
99	Prof. R.K. Sinha	Ultra-high figure-of-merit dielectric metasurface	<a href="https://doi.org/10.1117/12.2579219">https://doi.org/10.1117/12.2579219</a>		Conference
100	Prof. R.K. Sinha	Flexible polypyrrole activated micro-porous paper-based photoanode for photoelectrochemical water splitting	<a href="https://doi.org/10.1016/j.ijhydene.2020.12.044">https://doi.org/10.1016/j.ijhydene.2020.12.044</a>		Journal
101	Prof. R.K. Sinha	All dielectric metasurface based tunable optical modulator: Design and analysis	<a href="https://doi.org/10.1016/j.photonics.2020.100881">https://doi.org/10.1016/j.photonics.2020.100881</a>	2	Journal
102	Prof. R.K. Sinha	Advances in polymer-based composites for solar energy conversion to chemical fuels	<a href="https://doi.org/10.1016/B978-0-12-818484-4.00004-5">https://doi.org/10.1016/B978-0-12-818484-4.00004-5</a>	1	Chapter

103	Prof. R.K. Sinha	Tunable Optical Parametric Amplification in Chalcogenide Slot Waveguide	<a href="https://doi.org/10.1007/978-981-15-9259-1_46">https://doi.org/10.1007/978-981-15-9259-1_46</a>		Conference
104	Prof. R.K. Sinha	All Dielectric Metasurface for Electro-optic Modulator	<a href="https://doi.org/10.1007/978-981-15-9259-1_110">https://doi.org/10.1007/978-981-15-9259-1_110</a>		Conference
105	Dr. Pawan Kumar Tyagi	<u>Optimized performance of nickel in crystal-layered arrangement of NiFe<sub>2</sub>O<sub>4</sub>/rGO hybrid for high-performance oxygen evolution reaction</u>	<a href="https://doi.org/10.1016/j.ijhydene.2020.10.144">https://doi.org/10.1016/j.ijhydene.2020.10.144</a>	31	Journal
106	Dr. M. Jayasimhadri	<u>Synthesis and optimization of photoluminescence properties in potential reddish orange emitting niobate phosphor for photonic device applications</u>	<a href="https://doi.org/10.1002/bio.4085">https://doi.org/10.1002/bio.4085</a>		Journal
107	Dr. M. Jayasimhadri	<u>Photoluminescence and thermal sensing properties of Er<sup>3+</sup> doped silicate based phosphors for multifunctional</u>	<a href="https://doi.org/10.1016/j.ceramint.2021.06.194">https://doi.org/10.1016/j.ceramint.2021.06.194</a>	8	Journal

		<u>optoelectronic device applications</u>			
108	Dr. M. Jayasimhadri	<u>Development of deep red-emitting CaBiVO<sub>5</sub>:Pr<sup>3+</sup> phosphor for multifunctional optoelectronic applications</u>	<a href="https://doi.org/10.1111/jace.17951">https://doi.org/10.1111/jace.17951</a>	4	Journal
109	Dr. M. Jayasimhadri	<u>Spectroscopic and color tunable studies in Dy<sup>3+</sup>/Eu<sup>3+</sup> co-doped calcium-bismuth-vanadate phosphor for lighting applications</u>	<a href="https://doi.org/10.1016/j.solidstatesciences.2021.106776">https://doi.org/10.1016/j.solidstatesciences.2021.106776</a>	4	Journal
110	Dr. M. Jayasimhadri	Thermally stable Mn <sup>2+</sup> -activated zinc silicate nanophosphor for speedy recognition of high-contrast latent fingerprints	<a href="https://doi.org/10.1111/ijac.13926">https://doi.org/10.1111/ijac.13926</a>		Journal
111	Dr. M. Jayasimhadri	Deep reddish-orange emitting Sr <sub>3</sub> Gd(PO <sub>4</sub> ) <sub>3</sub> : Sm <sup>3+</sup> phosphors via modified citrate-gel combustion method	<a href="https://doi.org/10.1016/j.molstruc.2022.132428">https://doi.org/10.1016/j.molstruc.2022.132428</a>	5	Journal



112	Dr. M. Jayasimhadri	Luminescent and colorimetric properties of the sol-gel derived mono-phase Dy <sup>3+</sup> doped silicate-based phosphor for w-LED applications	<a href="https://doi.org/10.1007/s10971-021-05704-w">https://doi.org/10.1007/s10971-021-05704-w</a>	1	Journal
113	Dr. M. Jayasimhadri	Structural and color tunable properties in Sm <sup>3+</sup> /Eu <sup>3+</sup> -doped Ca <sub>3</sub> Bi (PO <sub>4</sub> ) <sub>3</sub> phosphor for solar cell and w-LED applications	<a href="https://doi.org/10.1007/s10854-022-07708-w">https://doi.org/10.1007/s10854-022-07708-w</a>	2	Journal