

Department of Physics
JNTUA CEA

Name of the Faculty	Title of the Publication	Year of Publication	Name of the Journal	Impact Factor
Dr. R. Padma Suvarna	Monitor unit restrained hybrid approach using conformal arcs for radiosurgery of solitary brain metastasis	2023	Radiation Physics and Chemistry	2.9
	<u>X-band Electromagnetic Properties of Hydrothermally Synthesized La_{1-x}Bi_xTiO₃ (x= 0.2-0.8) Nanoparticles</u>	2023	Inorganic Chemistry Communications	3.428
	Niobium oxide-activated yttrium barium titanate nanorod structured ceramics for energy storage applications	2022	International Journal of Applied Ceramic Technology	2.328
	<u>Structure and Dielectric Studies of Lanthanum Oxide Activated Niobium-Barium Titanate for Energy Storage Applications</u>	2022	ECS Transactions	0.70
	<u>Gadolinium Nitrate Decorated Reduced Graphene Oxide Structure and Morphological Studies for Battery Applications</u>	2022	ECS Transactions	0.70
	<u>Structural and Morphological Studies of Bi₂O₃/MWCNTs Doped Reduced Graphene Oxide for Energy Storage Applications</u>	2022	ECS Journal of Solid State Science and Technology	2.483
	Tetragonal structure and dielectric behaviour of rare-earth substituted La _{0.8} Co _{0.16-x} Eu _{0.04} Gd _x TiO ₃ (x= 0.04–0.16) nanorods	2021	Materials Chemistry and Physics	4.778
	<u>Synthesis and characterization of ZnO-CuO nanocomposites</u>	2020	AIP Conference Proceedings	0.7
	Optical and A.C conductivity characterization of alkaline earth borobismuthate glasses doped with nickel oxide	2020	Optik	2.84
	Negative dielectric behavior in tetragonal La _{0.8} Co _{0.2-x} Eu _x TiO ₃ (x	2020	Materials Characterization	4.537

	= 0.01–0.04) nanorods			
	Near infrared broadband and visible upconversion emissions of erbium ions in oxyfluoride glasses for optical amplifier applications	2020	Optics & Laser Technology	4.939
	PEO/CoO Composite Polymer Electrolytes for Lithium Batteries	2020	AIP Conference Proceedings	0.7
	A review on biological and biomimetic materials and their applications	2020	<u>Applied Physics A</u>	2.983
	Effect of small concentration of TiO ₂ on physical and optical properties of borobismuthate glasses	2020	AIP Conference Proceedings	0.41
	Physical and Optical Properties of Borobismuthate Glasses Containing Vanadium Oxide	2020	Glass Physics and Chemistry	0.685
	FTIR, Raman and XRD analysis of graphene oxide films prepared by modified Hummers method	2020	<u>Journal of Physics: Conference Series</u>	0.48
	Surface modification influenced properties of silicon nanowires grown by Ag assisted chemical etching with ECR hydrogen plasma treatment	2020	Journal of Materials Science: Materials in Electronics	2.8
	Synthesis, characterization and anti-cancer applications of ytterbium doped gadolinium molybdate nanophosphor compound	2019	<u>Materials Express</u>	1.11
	Optical bandgap and ferroelectric studies of Pb _{0.8-y} La _y Co _{0.2} TiO ₃ (y = 0.2 to 0.8) synthesized by microwave irradiation processed sol-gel technique	2019	Advances in Natural Science: Nanoscience and Nanotechnology	0.438
	Microwave Heated Lead Cobalt Titanate Nanoparticles Synthesized by Sol-Gel Technique: Structural, Morphological, Dielectric, Impedance and Ferroelectric Properties	2019	Materials Science and Engineering B	3.407

	Grain and grain boundary conduction mechanism in sol-gel synthesized and microwave heated $\text{Pb}_{0.8-y}\text{La}_y\text{Co}_{0.2}\text{TiO}_3$ ($y = 0.2-0.8$) nanofibers,	2019	Materials Chemistry and Physics	4.778
	Phase Change and Ferroelectric Nature of Microwave Heated Lead Cobalt Titanate Nanoparticles Prepared by Sol-Gel Method	2018	International Journal of Applied Ceramic Technology	2.328
	Photoluminescence of dysprosium doped antimony-magnesium-strontium-oxyfluoroborate glasses	2018	<u>Ceramics International</u>	5.532
	Multiferroic Nature of Microwave-Processed and Sol-Gel Synthesized $\text{NanoPb}_{1-x}\text{Co}_x\text{TiO}_3$ ($x = 0.2-0.8$) Ceramics	2018	Crystal Research and Technology	1.599
	Structural and functional properties of sol-gel synthesized and microwave heated $\text{Pb}_{0.8}\text{Co}_{0.2-z}\text{La}_z\text{TiO}_3$ ($z = 0.05-0.2$) nanoparticles	2018	Ceramics International	5.532
	Sol-Gel Synthesized and Microwave Heated $\text{Pb}_{0.8-y}\text{La}_y\text{Co}_{0.2}\text{TiO}_3$ ($y = 0.2-0.8$) Nanoparticles: Structural, Morphological and Dielectric Properties	2018	Ceramics International	5.532
	Luminescent properties of Tb^{3+} -doped $\text{TeO}_2\text{-WO}_3\text{-GeO}_2$ glasses for green laser applications	2018	Optical Materials	3.754
	Red luminescence from Eu^{3+} -doped $\text{TeO}_2\text{-WO}_3\text{-GeO}_2$ glasses for solid state lasers	2018	AIP Conference Proceedings	0.41
	Intense green emission from Tb^{3+} -doped $\text{TeO}_2\text{-WO}_3\text{-GeO}_2$ glasses	2018	AIP Conference Proceedings	0.41
	Optical properties of Sm^{3+} -doped TeO_2 single bond WO_3 single bond GeO_2 glasses for solid state lasers	2018	Physica B: Condensed Matter	2.988
	Structural and ferroelectric properties of microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique	2017	Journal Material Science; Materials in Electronics	2.478

	Thermophysical properties of 1-butyl-3-methylimidazolium bis (trifluoromethylsulfonyl) imide with 2-ethoxyethanol from T = (298.15 to 323.15) K at atmospheric pressure	2017	Journal of Molecular Liquids	6.633
	Density and Speed of Sound of the Binary Mixture of 1-Butyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl)imide + 2-Methoxyethanol from T = (298.15 to 323.15) K at Atmospheric Pressure	2017	Journal of Chemical Engineering data	2.6
	Biosynthesis of MgO nanoparticles using mushroom extract: effect on peanut (Arachis hypogaea L.) seed germination	2017	3 Biotech	2.45
	AC Electrical Conductivity Studies of Pani-Copper Oxide Nanocomposites	2017	Indian journal of science and technology	0.60
	Structural and optical characteristics of Cu Doped SnO ₂ Nanostructures	2017	Journal of Nanoscience and Nanotechnology Applications	3.1
Dr. D. Zarena	Structural, Optical and Magnetic Properties of (1- x) YFeO ₃ +(x) Sr ₂ Bi ₄ Ti ₅ O ₁₈ (where 0 ≤ x ≤ 0.005) Nanomaterials	2023	ECS Journal of Solid State Science and Technology	2.07
	Influence of ZnSnO ₃ on Structural, Optical, and Magnetic Properties of YFeO ₃ Nanomaterials Obtained Via Sol-Gel Technique	2023	physica status solidi (a)	2.0
	Strategic Design and Analysis of Energy Storage and ME Applications of Low Temperature Hybrid Microwave Sintered Electroceramic Composites	2023	ACS Applied Electronic Materials	5.07
	Electric and dielectric studies of MgCuZn ferrites	2023	FERROELECTRICS	0.87
	Two distinct amphipathic peptide antibiotics with systemic efficacy	2020	Proceedings of the National Academy of Sciences	12
	Synthesis and characterization of barium niobate and silver niobate	2020	American Institute of Physics conference	0.7

	solid solution		proceedings	
	A Peptide-Nanoparticle System with Improved Efficacy against Multidrug Resistant Bacteria	2019	Scientific Reports	4.6
	The π configuration of the WWW motif of a short Trp-rich peptide is critical for targeting bacterial membranes, disrupting preformed biofilms, and killing methicillin-resistant Staphylococcus aureus	2017	Biochemistry	2.9
	Host defense antimicrobial peptides as antibiotics: design and application strategies	2017	Current Opinion in Chemical Biology	7.8
Dr. N. Suresh Kumar	X-band electromagnetic properties of hydrothermally synthesized $\text{La}_{1-x}\text{Bi}_x\text{TiO}_3$ ($x = 0.2-0.8$) nanoparticles	2023	Inorganic Chemistry Communications	3.92
	Insights into the Dielectric Loss Mechanism of Bianisotropic FeSi/SiC Composite Materials	2020	ACS Omega	4.1
	Negative dielectric behavior in tetragonal $\text{La}_{0.8}\text{Co}_{0.2-x}\text{Eu}_x\text{TiO}_3$ ($x = 0.01-0.04$) nanorods	2020	Materials Characterization	4.7
	Microwave Heated Lead Cobalt Titanate Nanoparticles Synthesized by Sol-Gel Technique: Structural, Morphological, Dielectric, Impedance and Ferroelectric Properties	2019	Materials Science and Engineering B	3.6
	Induced dielectric behavior in high dense $\text{Al}_x\text{La}_{1-x}\text{TiO}_3$ ($x = 0.2-0.8$) Nanospheres	2019	Journal of Materials Science: Materials in Electronics	2.9
	Grain and grain boundary conduction mechanism in sol-gel synthesized and microwave heated $\text{Pb}_{0.8-y}\text{La}_y\text{Co}_{0.2}\text{TiO}_3$ ($y = 0.2-0.8$) nanofibers,	2019	Materials Chemistry and Physics	4.7
	Multiferroic Nature of Microwave-Processed and Sol-Gel Synthesized $\text{NanoPb}_{1-x}\text{Co}_x\text{TiO}_3$ ($x = 0.2-0.8$) Ceramics	2018	Crystal Research and Technology	1.5
	Structural and functional properties of sol-gel synthesized	2018	Ceramics International	5.2

	and microwave heated $\text{Pb}_{0.8}\text{Co}_{0.2-z}\text{La}_z\text{TiO}_3$ ($z = 0.05\text{--}0.2$) nanoparticles			
	Sol-Gel Synthesized and Microwave Heated $\text{Pb}_{0.8-y}\text{La}_y\text{Co}_{0.2}\text{TiO}_3$ ($y = 0.2\text{--}0.8$) Nanoparticles: Structural, Morphological and Dielectric Properties	2018	Ceramics International	5.2
	Structural and ferroelectric properties of microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique	2017	Journal Material Science; Materials in Electronics	2.9