

# Nandakumar Kalarikkal

## List of Publications by Citations

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264  
papers

5,216  
citations

39  
h-index

57  
g-index

276  
ext. papers

6,525  
ext. citations

4.1  
avg, IF

6.34  
L-index

#	Paper	IF	Citations
264	Electrospun polycaprolactone/ZnO nanocomposite membranes as biomaterials with antibacterial and cell adhesion properties. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	182
263	Cellulose Nanofiber-Based Polyaniline Flexible Papers as Sustainable Microwave Absorbers in the X-Band. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20032-20043	9.5	149
262	Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. <i>RSC Advances</i> , <b>2014</b> , 4, 24777	3.7	140
261	Cellulose nanocomposites: Fabrication and biomedical applications. <i>Journal of Bioresources and Bioproducts</i> , <b>2020</b> , 5, 223-237	18.7	131
260	Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds. <i>RSC Advances</i> , <b>2014</b> , 4, 51528-51536	3.7	127
259	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. <i>Nano Research</i> , <b>2017</b> , 10, 3358-3376	10	107
258	Tetragonal BaTiO <sub>3</sub> nanoparticles: An efficient photocatalyst for the degradation of organic pollutants. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 51, 42-47	4.3	99
257	Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. <i>Applied Nanoscience (Switzerland)</i> , <b>2016</b> , 6, 337-344	3.3	96
256	Completely green synthesis of dextrose reduced silver nanoparticles, its antimicrobial and sensing properties. <i>Carbohydrate Polymers</i> , <b>2014</b> , 106, 469-74	10.3	85
255	Investigation into dielectric behaviour and electromagnetic interference shielding effectiveness of conducting styrene butadiene rubber composites containing ionic liquid modified MWCNT. <i>Polymer</i> , <b>2017</b> , 112, 102-115	3.9	84
254	Electrospun polycaprolactone (PCL) scaffolds embedded with europium hydroxide nanorods (EHNs) with enhanced vascularization and cell proliferation for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 4660-4672	7.3	79
253	Advancement of wound care from grafts to bioengineered smart skin substitutes. <i>Progress in Biomaterials</i> , <b>2014</b> , 3, 103-113	4.4	77
252	Collagen coated electrospun polycaprolactone (PCL) with titanium dioxide (TiO <sub>2</sub> ) from an environmentally benign solvent: preliminary physico-chemical studies for skin substitute. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	72
251	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. <i>Materials Today Communications</i> , <b>2019</b> , 19, 319-335	2.5	69
250	Excellent Electromagnetic Interference Shielding and High Electrical Conductivity of Compatibilized Polycarbonate/Polypropylene Carbon Nanotube Blend Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 4287-4297	3.9	69
249	Polymer sutures for simultaneous wound healing and drug delivery - A review. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 524, 454-466	6.5	64
248	Electrospun poly(ε-caprolactone)-based skin substitutes: In vivo evaluation of wound healing and the mechanism of cell proliferation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1445-54	3.5	63

247	Transport characteristics of organic solvents through carbon nanotube filled styrene butadiene rubber nanocomposites: the influence of rubber-filler interaction, the degree of reinforcement and morphology. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 11217-28	3.6	62
246	A facile and rapid method for the black pepper leaf mediated green synthesis of silver nanoparticles and the antimicrobial study. <i>Applied Nanoscience (Switzerland)</i> , <b>2014</b> , 4, 809-818	3.3	59
245	Chemistry associated with natural rubber-graphene nanocomposites and its effect on physical and structural properties. <i>Industrial Crops and Products</i> , <b>2015</b> , 74, 792-802	5.9	58
244	Enhanced lithium storage in ZnFe <sub>2</sub> O <sub>4</sub> nanocomposite produced by a low-energy ball milling. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 462-470	8.9	58
243	Reduced graphene oxide and ZnO decorated graphene for biomedical applications. <i>Ceramics International</i> , <b>2018</b> , 44, 15092-15098	5.1	53
242	A comparative study on structural, dielectric and multiferroic properties of CaFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> core-shell and mixed composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 691, 644-652	5.7	50
241	Effect of zinc oxide nanoparticles on the in vitro degradation of electrospun polycaprolactone membranes in simulated body fluid. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2016</b> , 65, 28-37	3	49
240	Multiferroic and magnetoelectric properties of Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> core-shell nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 418, 294-299	2.8	49
239	Preparation and characterization of green graphene using grape seed extract for bioapplications. <i>Materials Science and Engineering C</i> , <b>2016</b> , 65, 345-53	8.3	48
238	Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 213, 75-81	6	47
237	Electrospun polyvinyl alcohol membranes incorporated with green synthesized silver nanoparticles for wound dressing applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 163	4.5	46
236	Excellent electromagnetic shield derived from MWCNT reinforced NR/PP blend nanocomposites with tailored microstructural properties. <i>Composites Part B: Engineering</i> , <b>2019</b> , 173, 106798	10	45
235	Cell Adhesion on Polycaprolactone Modified by Plasma Treatment. <i>International Journal of Polymer Science</i> , <b>2016</b> , 2016, 1-9	2.4	45
234	Dose-Dependent Effects of Gamma Irradiation on the Materials Properties and Cell Proliferation of Electrospun Polycaprolactone Tissue Engineering Scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2015</b> , 64, 526-533	3	44
233	Structural, optical and photoluminescence studies of sol-gel synthesized pure and iron doped TiO <sub>2</sub> photocatalysts. <i>Ceramics International</i> , <b>2019</b> , 45, 25060-25068	5.1	43
232	Developing highly conducting and mechanically durable styrene butadiene rubber composites with tailored microstructural properties by a green approach using ionic liquid modified MWCNTs. <i>RSC Advances</i> , <b>2016</b> , 6, 32493-32504	3.7	42
231	Dopamine functionalization of BaTiO <sub>3</sub> : an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO <sub>3</sub> -PVDF-TrFE nanocomposites. <i>Dalton Transactions</i> , <b>2018</b> , 47, 2039-2051	4.3	41
230	Structure and magnetic properties of the Al <sub>1-x</sub> Ga <sub>x</sub> FeO <sub>3</sub> family of oxides: A combined experimental and theoretical study. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 494-501	3.3	41

229	Highly lithium ion conductive, Al <sub>2</sub> O <sub>3</sub> decorated electrospun P(VDF-TrFE) membranes for lithium ion battery separators. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19505-19520	3.6	41
228	Electric, magnetic, piezoelectric and magnetoelectric studies of phase pure (BiFeO <sub>3</sub> /NaNbO <sub>3</sub> )P(VDF-TrFE) nanocomposite films prepared by spin coating. <i>RSC Advances</i> , <b>2016</b> , 6, 28069-28080	3.7	40
227	Synthesis and characterisation of gelatin/zeolite porous scaffold. <i>European Polymer Journal</i> , <b>2013</b> , 49, 2433-2445	5.2	40
226	An in vitro method for the determination of microbial barrier property (MBP) of porous polymeric membranes for skin substitute and wound dressing applications. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 12, 12-19	4.5	39
225	Static and Dynamic Mechanical Characteristics of Ionic Liquid Modified MWCNT-SBR Composites: Theoretical Perspectives for the Nanoscale Reinforcement Mechanism. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1525-1536	3.4	38
224	Effect of reinforcement on the barrier and dielectric properties of epoxidized natural rubber/graphene nanocomposites. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 2439-2447	2.3	38
223	Clogging-Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. <i>Polymer-Plastics Technology and Engineering</i> , <b>2016</b> , 55, 518-529		36
222	Evaluation of in-vitro cytotoxicity and cellular uptake efficiency of zidovudine-loaded solid lipid nanoparticles modified with Aloe Vera in glioma cells. <i>Materials Science and Engineering C</i> , <b>2016</b> , 66, 40-50 <sup>3</sup>	8.3	36
221	Fabrication and characterization of biosilver nanoparticles loaded calcium pectinate nano-micro dual-porous antibacterial wound dressings. <i>Progress in Biomaterials</i> , <b>2016</b> , 5, 223-235	4.4	36
220	Effect of particle size and dopant concentration on the Raman and the photoluminescence spectra of TiO <sub>2</sub> :Eu <sup>3+</sup> nanophosphor thin films. <i>Journal of Luminescence</i> , <b>2019</b> , 211, 320-333	3.8	34
219	Size dependent nonlinear optical absorption in BaTiO <sub>3</sub> nanoparticles. <i>Chemical Physics Letters</i> , <b>2015</b> , 625, 58-63	2.5	33
218	Room temperature magnetoelectric coupling effect in CuFe <sub>2</sub> O <sub>4</sub> -BaTiO <sub>3</sub> core-shell and nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 288-296	5.7	33
217	Biopolymers Application in Nanoscience and Nanotechnology <b>2016</b> ,		33
216	Surface Acoustic Wave Device with Reduced Insertion Loss by Electrospinning P(VDF-TrFE)/ZnO Nanocomposites. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 282-290	19.5	32
215	Wound healing analysis of pectin/carboxymethyl cellulose/microfibrillated cellulose based composite scaffolds. <i>Materials Letters</i> , <b>2014</b> , 132, 34-37	3.3	32
214	Multifunctional nitrogen sulfur co-doped reduced graphene oxide Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. <i>Carbon</i> , <b>2018</b> , 132, 380-393	10.4	31
213	Flexible dopamine-functionalized BaTiO <sub>3</sub> /BaTiZrO <sub>3</sub> /BaZrO <sub>3</sub> -PVDF ferroelectric nanofibers for electrical energy storage. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 837, 155492	5.7	31
212	A comparative study on the optical limiting properties of different nano spinel ferrites with Z-scan technique. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 1855-1860	5.1	30

211	Novel dendritic structure of alginate hybrid nanoparticles for effective anti-viral drug delivery. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 103, 1265-1275	7.9	29
210	Cation distribution and micro level magnetic alignments in the nanosized nickel zinc ferrite. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 546, 77-83	5.7	28
209	Development of nanoscale morphology and role of viscoelastic phase separation on the properties of epoxy/recycled polyurethane blends. <i>Polymer</i> , <b>2017</b> , 117, 96-106	3.9	27
208	UV-Induced reduction of graphene oxide in cellulose nanofibril composites. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 681-688	3.6	27
207	Facile synthesis of transparent and fluorescent epoxy/CdSe/CdS/ZnS core-multi shell polymer nanocomposites. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 155-162	3.6	27
206	Electric, magnetic and optical limiting (short pulse and ultrafast) studies in phase pure (1-x)BiFeO <sub>3</sub> -xNaNbO <sub>3</sub> multiferroic nanocomposite synthesized by the pechini method. <i>RSC Advances</i> , <b>2015</b> , 5, 67157-67164	3.7	26
205	Ultra-fast heat dissipating aerogels derived from polyaniline anchored cellulose nanofibers as sustainable microwave absorbers. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116663	10.3	26
204	Preparation, characterization and in vitro study of liposomal curcumin powder by cost effective nanofiber weaving technology. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 5117-5127	3.6	26
203	Flexible and self-standing nickel ferrite-PVDF-TrFE cast films: promising candidates for high-end magnetoelectric applications. <i>Dalton Transactions</i> , <b>2019</b> , 48, 16961-16973	4.3	26
202	Novel core-shell dextran hybrid nanosystem for anti-viral drug delivery. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 864-872	8.3	25
201	Effect of gamma radiation on the structural, dielectric and magnetoelectric properties of nanostructured hexagonal YMnO <sub>3</sub> . <i>Radiation Physics and Chemistry</i> , <b>2013</b> , 89, 28-32	2.5	25
200	Enhanced photocatalytic performance of ZnO nanostructures produced via a quick microwave assisted route for the degradation of rhodamine in aqueous solution. <i>Materials Research Bulletin</i> , <b>2017</b> , 85, 131-139	5.1	25
199	Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size. <i>RSC Advances</i> , <b>2016</b> , 6, 106754-106761	3.7	24
198	Gentamicin Loaded Electrospun Poly( $\epsilon$ -Caprolactone)/TiO <sub>2</sub> Nanocomposite Membranes with Antibacterial Property against Methicillin Resistant Staphylococcus aureus. <i>Polymer-Plastics Technology and Engineering</i> , <b>2016</b> , 55, 1785-1796		24
197	Grain size dependent magnetoelectric coupling of BaTiO <sub>3</sub> nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 7886-7897	3.7	24
196	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1900058	5.5	23
195	Structural and magnetic properties of geometrically frustrated multiferroic ErMnO <sub>3</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 551, 654-659	5.7	23
194	Novel drug delivery systems based on triaxial electrospinning based nanofibers. <i>Reactive and Functional Polymers</i> , <b>2021</b> , 163, 104895	4.6	23

193	Realization of Enhanced Magnetolectric Coupling and Raman Spectroscopic Signatures in 00 Type Hybrid Multiferroic CoreShell Geometric Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4352-4362	3.8	22
192	Structure and dynamics of gold nanoparticles decorated with chitosan-gentamicin conjugates: ReaxFF molecular dynamics simulations to disclose drug delivery. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 13099-13108	3.6	22
191	Physicochemical, mechanical, barrier and antibacterial properties of starch nanocomposites crosslinked with pre-oxidised sucrose. <i>Industrial Crops and Products</i> , <b>2019</b> , 130, 398-408	5.9	22
190	Cr <sup>3+</sup> -substitution induced structural reconfigurations in the nanocrystalline spinel compound ZnFe <sub>2</sub> O <sub>4</sub> as revealed from X-ray diffraction, positron annihilation and Mössbauer spectroscopic studies. <i>RSC Advances</i> , <b>2015</b> , 5, 64966-64975	3.7	21
189	Enhanced antimicrobial performance of cloisite 30B/poly (ε-caprolactone) over cloisite 30B/poly (L-lactic acid) as evidenced by structural features. <i>Applied Clay Science</i> , <b>2018</b> , 153, 198-204	5.2	21
188	Plasticized PVC graphene nanocomposites: Morphology, mechanical, and dynamic mechanical properties. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, E104-E113	2.3	21
187	An effective EMI shielding material based on poly(trimethylene terephthalate) blend nanocomposites with multiwalled carbon nanotubes. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 13915-13926	3.6	21
186	Nanoparticle- and Nanoporous-Membrane-Mediated Delivery of Therapeutics. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	21
185	Nonlinear optical absorption studies of sol-gel derived Yttrium Iron Garnet (Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> ) nanoparticles by Z-scan technique. <i>Ceramics International</i> , <b>2012</b> , 38, 1823-1826	5.1	21
184	Nano formulated proanthocyanidins as an effective wound healing component. <i>Materials Science and Engineering C</i> , <b>2020</b> , 106, 110056	8.3	21
183	Laser-plasma driven green synthesis of size controlled silver nanoparticles in ambient liquid. <i>Nano Structures Nano Objects</i> , <b>2018</b> , 16, 337-346	5.6	21
182	In Situ Decoration of Gold Nanoparticles on Graphene Oxide via Nanosecond Laser Ablation for Remarkable Chemical Sensing and Catalysis. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	20
181	Fabrication of graphite-graphene-ionic liquid modified carbon nanotubes filled natural rubber thin films for microwave and energy storage applications. <i>Journal of Polymer Research</i> , <b>2015</b> , 22, 1	2.7	20
180	Silver-attached reduced graphene oxide nanocomposite as an eco-friendly photocatalyst for organic dye degradation. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 5597-5621	2.8	20
179	Nitrogen doped graphene Silver nanowire hybrids: An excellent anode material for lithium ion batteries. <i>Applied Surface Science</i> , <b>2018</b> , 428, 1119-1129	6.7	20
178	Cellulose Nanofiber vs Nanocrystals From Pineapple Leaf Fiber: A Comparative Studies on Reinforcing Efficiency on Starch Nanocomposites. <i>Macromolecular Symposia</i> , <b>2018</b> , 380, 1800102	0.8	20
177	Two-photon assisted excited state absorption in multiferroic YCrO <sub>3</sub> nanoparticles. <i>Chemical Physics Letters</i> , <b>2012</b> , 529, 59-63	2.5	20
176	Improved nonlinear optical and optical limiting properties in non-covalent functionalized reduced graphene oxide/silver nanoparticle (NF-RGO/Ag-NPs) hybrid. <i>Optical Materials</i> , <b>2016</b> , 58, 476-483	3.3	20

175	Preparation and characterization of nanocomposite films based on gum arabic, maltodextrin and polyethylene glycol reinforced with turmeric nanofiber isolated from turmeric spent. <i>Materials Science and Engineering C</i> , <b>2019</b> , 97, 723-729	8.3	20
174	Toughness augmentation by fibrillation and yielding in nanostructured blends with recycled polyurethane as a modifier. <i>Applied Surface Science</i> , <b>2018</b> , 442, 403-411	6.7	19
173	Thermoplastic elastomer composition based on an interpenetrating polymeric network of styrene butadiene rubber/poly(methyl methacrylate) as an efficient vibrational damper. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 1939-1951	3.6	19
172	Development of titanium dioxide nanowire incorporated poly(vinylidene fluoride-trifluoroethylene) scaffolds for bone tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 96	4.5	19
171	Antimicrobial, antibiofilm, and microbial barrier properties of poly ( $\epsilon$ -caprolactone)/cloisite 30B thin films. <i>3 Biotech</i> , <b>2016</b> , 6, 249	2.8	19
170	Structural and optical properties of functionalized multi-walled carbon nanotubes. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 41, 491-496	4.3	18
169	Gold nanoparticles against respiratory diseases: oncogenic and viral pathogens review. <i>Therapeutic Delivery</i> , <b>2020</b> , 11, 521-534	3.8	18
168	Poly(lactic acid)/nano chitosan composite fibers and their morphological, physical characterization for the removal of cadmium(II) from water. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48993	2.9	17
167	Biodegradable starch/PVOH/laponite RD-based bionanocomposite films coated with graphene oxide: Preparation and performance characterization for food packaging applications. <i>Colloid and Polymer Science</i> , <b>2017</b> , 295, 1695-1708	2.4	17
166	Gelatin modified lipid nanoparticles for anti- viral drug delivery. <i>Chemistry and Physics of Lipids</i> , <b>2017</b> , 207, 24-37	3.7	17
165	Dendrimers: General Aspects, Applications and Structural Exploitations as Prodrug/Drug-delivery Vehicles in Current Medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2018</b> , 18, 439-457	3.2	17
164	Application of novel zinc oxide reinforced xanthan gum hybrid system for edible coatings. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 151, 806-813	7.9	17
163	Boron doped graphene wrapped silver nanowires as an efficient electrocatalyst for molecular oxygen reduction. <i>Scientific Reports</i> , <b>2016</b> , 6, 37731	4.9	17
162	Ionic liquid modified multiwalled carbon nanotube embedded styrene butadiene rubber membranes for the selective removal of toluene from toluene/methanol mixture via pervaporation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 95, 594-601	5.3	17
161	Graphene Nanobuds: A New Second-Generation Phosgene Sensor with Ultralow Detection Limit in Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19339-19349	9.5	16
160	Chemical modification of graphene with grape seed extract: Its structural, optical and antimicrobial properties. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 305-314	8.3	16
159	Magnetic performance and defect characterization studies of core-shell architected MgFeO@BaTiO <sub>3</sub> multiferroic nanostructures. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8709-8720	3.6	16
158	Composition-structure/physical property relationship and nonlinear optical properties of multiferroic hexagonal ErMn <sub>1-x</sub> Cr <sub>x</sub> O <sub>3</sub> nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 12480-12487	3.7	16

157	Tuning of microstructure in engineered poly (trimethylene terephthalate) based blends with nano inclusion as multifunctional additive. <i>Polymer Testing</i> , <b>2018</b> , 68, 395-404	4.5	16
156	Influence of POSS fillers on the transport properties of natural rubber nanocomposites. <i>Polymer Composites</i> , <b>2019</b> , 40, 3020-3031	3	16
155	Development of plasticized poly (vinyl chloride)/reduced graphene oxide nanocomposites for energy storage applications. <i>Polymer Testing</i> , <b>2019</b> , 73, 250-257	4.5	16
154	Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters. <i>Optical Materials</i> , <b>2017</b> , 73, 695-705	3.3	15
153	Morphology correlated free volume studies of multi-walled carbon nanotube plasticized poly (vinyl chloride) nanocomposites: Positronium probes and electrical properties. <i>Polymer</i> , <b>2018</b> , 141, 232-243	3.9	15
152	Compatibilising action of multiwalled carbon nanotubes in polycarbonate/polypropylene (PC/PP) blends: phase morphology, viscoelastic phase separation, rheology and percolation. <i>Journal of Polymer Research</i> , <b>2019</b> , 26, 1	2.7	15
151	Magnetoelectric properties of multiferroic composites (1-x)ErMnO <sub>3</sub> -xY <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> at room temperature. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 611, 381-385	5.7	15
150	Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 71-81	2.1	14
149	Effect of organically modified clay on the morphology, rheology and viscoelasticity of epoxy thermoplastic nanocomposites. <i>Polymer Testing</i> , <b>2018</b> , 70, 18-29	4.5	14
148	Second harmonic scattering from mass characterized 2D graphene oxide sheets. <i>Chemical Communications</i> , <b>2020</b> , 56, 3859-3862	5.8	13
147	Room temperature ferromagnetism in carbon doped MoO <sub>3</sub> for spintronic applications: A DFT study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 502, 166503	2.8	13
146	Ultrasensitive detection of a 1-pyrenecarboxylic acid by surface enhanced Raman scattering hot spot with reduced graphene oxide/silver nanoparticles composites. <i>Materials Letters</i> , <b>2016</b> , 171, 137-141	3.3	13
145	Fracture resistant, antibiofilm adherent, self-assembled PMMA/ZnO nanoformulations for biomedical applications: physico-chemical and biological perspectives of nano reinforcement. <i>Nanotechnology</i> , <b>2018</b> , 29, 305704	3.4	13
144	Temperature dependent neutron diffraction and Mössbauer studies in zinc ferrite nanoparticles. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 1506-1511	5.1	13
143	Core-shell nanoparticles of carboxy methyl cellulose and compritol-PEG for antiretroviral drug delivery. <i>Cellulose</i> , <b>2017</b> , 24, 4759-4771	5.5	13
142	Reduced graphene oxide produced by chemical and hydrothermal methods. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 16306-16312	1.4	13
141	Room temperature magnetoelectric properties of lead-free alkaline niobate based particulate composites. <i>Ceramics International</i> , <b>2019</b> , 45, 8115-8122	5.1	12
140	Thermal, biodegradation and theoretical perspectives on nanoscale confinement in starch/cellulose nanocomposite modified via green crosslinker. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 134, 781-790	7.9	12



139	Green synthesis of yellow emitting PMMA/CdSe/ZnS quantum dots nanophosphors. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 39, 587-595	4.3	12
138	High-k dielectric percolative nanocomposites based on multiwalled carbon nanotubes and polyvinyl chloride. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8152-8159	7.1	12
137	Environmental Fate of Zinc Oxide Nanoparticles: Risks and Benefits <b>2016</b> ,		12
136	Surface engineering of polystyrene/berium oxide nanocomposite thin films for refractive index enhancement. <i>Nano Structures Nano Objects</i> , <b>2019</b> , 17, 34-42	5.6	12
135	Antimicrobial properties of MFeO (M = Mn, Mg)/reduced graphene oxide composites synthesized via solvothermal method. <i>Materials Science and Engineering C</i> , <b>2019</b> , 95, 43-48	8.3	12
134	Dielectric and dye adsorption properties of luminescent-superparamagnetic MFe <sub>2</sub> O <sub>4</sub> (M = Mn, Mg)/reduced graphene oxide composites. <i>Ceramics International</i> , <b>2018</b> , 44, 3904-3914	5.1	12
133	Bionanocomposites as industrial materials, current and future perspectives: a review. <i>Emergent Materials</i> , <b>2020</b> , 3, 711-725	3.5	11
132	Microwave Absorption in MWNTs-Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. <i>ChemistrySelect</i> , <b>2016</b> , 1, 4747-4752	1.8	11
131	Effect of CoFe <sub>2</sub> O <sub>4</sub> weight fraction on multiferroic and magnetoelectric properties of (1-x)Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> /xCoFe <sub>2</sub> O <sub>4</sub> particulate composites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8239-8248	2.1	10
130	Enhanced photoconductivity in CdS/betainin composite nanostructures.. <i>RSC Advances</i> , <b>2018</b> , 8, 11330-11337	3.7	10
129	Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 10926-10933	2.1	10
128	Size-dependent thermal properties of multiferroic ErMnO <sub>3</sub> nanoparticles using photopyroelectric technique. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 579, 243-248	5.7	10
127	Reduced graphene oxide/silver nanohybrid as a multifunctional material for antibacterial, anticancer, and SERS applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	10
126	Insights into the biomechanical properties of plasma treated 3D printed PCL scaffolds decorated with gold nanoparticles. <i>Composites Science and Technology</i> , <b>2021</b> , 202, 108544	8.6	10
125	In Situ Synthesis of Silver Nanospheres, Nanocubes, and Nanowires over Boron-Doped Graphene Sheets for Surface-Enhanced Raman Scattering Application and Enzyme-Free Detection of Hydrogen Peroxide. <i>Langmuir</i> , <b>2018</b> , 34, 13603-13614	4	10
124	Recycling of medical plastics. <i>Advanced Industrial and Engineering Polymer Research</i> , <b>2021</b> , 4, 199-208	7.3	10
123	Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 11424-11434	3.6	9
122	Enhanced magnetoelectric coupling and dielectric constant in flexible ternary composite electrospun fibers of PVDF-HFP loaded with nanoclay and NiFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11356-11364	3.6	9

121	Nonlinear Optical Properties of Nanosized Rare-Earth Doped Strontium Barium Niobate Ceramics. <i>Spectroscopy Letters</i> , <b>2011</b> , 44, 334-339	1.1	9
120	Nylon 6, 12/Cloisite 30B Electrospun Nanocomposites for Dental Applications. <i>Journal of Siberian Federal University - Biology</i> , <b>2016</b> , 9, 198-211	0.3	9
119	Preparation Of Epoxy Graphene And Its Structural And Optical Properties. <i>Advanced Materials Letters</i> , <b>2015</b> , 6, 848-852	2.4	9
118	Dysprosium-substitution-induced structural changes of multiferroic nanocrystalline bismuth ferrite and the investigation through positron annihilation and other studies. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 599, 412431	2.8	9
117	BaTiO <sub>3</sub> /ZnO heterostructured photocatalyst with improved efficiency in dye degradation. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 255, 123583	4.4	9
116	Nonlinear optical properties of (1-x) CaFe <sub>2</sub> O <sub>4</sub> -xBaTiO <sub>3</sub> composites. <i>Ceramics International</i> , <b>2016</b> , 42, 11093-11098	5.1	9
115	Poly( $\epsilon$ -caprolactone)/Functionalized-Carbon Nanotube Electrospun Nanocomposites: Crystallization and Thermal Properties. <i>Macromolecular Symposia</i> , <b>2018</b> , 381, 1800140	0.8	9
114	Viscoelastic and electrical properties of RGO reinforced phenol formaldehyde nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49211	2.9	8
113	Dietary supplements containing vitamins and minerals: Formulation, optimization and evaluation. <i>Powder Technology</i> , <b>2018</b> , 336, 481-492	5.2	8
112	Positron annihilation spectroscopic characterization of free-volume defects and their correlations with the mechanical and transport properties of SBR-PMMA interpenetrating polymer networks. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 18169-18182	3.6	8
111	Magnetically recoverable Ir/IrO <sub>2</sub> @Fe <sub>3</sub> O <sub>4</sub> core/ SiO <sub>2</sub> shell catalyst for the reduction of organic pollutants in water. <i>Chemical Physics Letters</i> , <b>2020</b> , 742, 137147	2.5	8
110	Facile fabrication of microporous polypropylene membrane separator for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 255, 123473	4.4	8
109	Enhanced photocatalytic performance of BaTiO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction for the degradation of organic pollutants. <i>Chemical Physics Letters</i> , <b>2021</b> , 771, 138513	2.5	8
108	Monitoring and separation of food-borne pathogens using magnetic nanoparticles <b>2016</b> , 271-312		8
107	Optical Characterization of Nanomaterials <b>2018</b> , 269-299		8
106	Poly( $\epsilon$ -caprolactone) Microsphere Decorated with Nano-ZnO Based Phytoformulation: A Promising Antimicrobial Agent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2019</b> , 29, 1503-1513 <sup>2</sup>	3.2	7
105	Carboxymethylcellulose hybrid nanodispersions for edible coatings with potential anti-cancer properties. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 157, 350-358	7.9	7
104	Synthesis of YCrO <sub>3</sub> nanoparticles through PAA assisted sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , <b>2013</b> , 66, 6-14	2.3	7

103	Carbon black distribution in natural rubber/butadiene rubber blend composites: Distribution driven by morphology. <i>Composites Science and Technology</i> , <b>2020</b> , 200, 108484	8.6	7
102	Grape seed extract-soluplus dispersion and its antioxidant activity. <i>Drug Development and Industrial Pharmacy</i> , <b>2020</b> , 46, 1219-1229	3.6	7
101	Investigation on surface interaction between graphene nanobuds and cerium(III) via fluorescence excimer, theoretical, real water sample, and bioimaging studies. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 264, 124453	4.4	7
100	Magnetic and dielectric properties of nickel-ferrite-embedded natural rubber composites. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 5217-5234	2.4	6
99	Dynamic Light Scattering (DLS) <b>2017</b> , 37-49		6
98	Positron annihilation spectroscopic studies of Mn substitution-induced cubic to tetragonal transformation in ZnFe <sub>2</sub> MnxO <sub>4</sub> (x = 0.00-0.0) spinel nanocrystallites. <i>Philosophical Magazine</i> , <b>2015</b> , 95, 4000-4022	1.6	6
97	Nitrobenzene sensing in pristine and metal doped 2D dichalcogenide MoS <sub>2</sub> : Insights from density functional theory investigations. <i>Applied Surface Science</i> , <b>2021</b> , 550, 149395	6.7	6
96	Carbon nanotube reinforced poly(trimethylene terephthalate) nanocomposites: Viscoelastic properties and chain confinement. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, E435-E445	2.3	6
95	Polyurethane glycolysate from industrial waste recycling to develop low dielectric constant, thermally stable materials suitable for the electronics. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2110-2120	5.9	6
94	Natural rubber nanocomposites with MWCNT@POSS hybrid filler: Preparation and properties. <i>Polymer Composites</i> , <b>2020</b> , 41, 369-380	3	6
93	Catechol detection in pure and transition metal decorated 2D MoS <sub>2</sub> : Acumens from density functional theory approaches. <i>Applied Surface Science</i> , <b>2021</b> , 562, 150216	6.7	6
92	Sea urchin-like Ni encapsulated with BaTiO <sub>3</sub> to form multiferroic core-shell structures for room temperature magnetoelectric sensors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 881, 160579	5.7	6
91	Fabrication and functionalization of 3D-printed soft and hard scaffolds with growth factors for enhanced bioactivity.. <i>RSC Advances</i> , <b>2020</b> , 10, 37928-37937	3.7	5
90	In situ dose dependent gamma ray irradiated synthesis of PMMA/Ag nanocomposite films for multifunctional applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15750-15761	3.6	5
89	Novel bio compactable silver nanowires and nanocubes: An effective treatment against carbapenem and vancomycin resistant strains isolated from cancer patients. <i>Journal of Saudi Chemical Society</i> , <b>2019</b> , 23, 1090-1101	4.3	5
88	Positron annihilation spectroscopic studies of multiferroic Bi <sub>1-x</sub> Pr <sub>x</sub> FeO <sub>3</sub> nanocrystalline compounds. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 618, 012012	0.3	5
87	An open aperture z-scan study of Sr <sub>2</sub> CeO <sub>4</sub> blue phosphor. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 8573-8576	5.7	5
86	Advances and future outlook in epoxy/graphene composites for anticorrosive applications. <i>Progress in Organic Coatings</i> , <b>2022</b> , 162, 106571	4.8	5

85	Defect-focused analysis of calcium-substitution-induced structural transformation of magnesium ferrite nanocrystals. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 1556-1570	3.6	5
84	Surface and morphology analyses, and voltammetry studies for electrochemical determination of cerium(III) using a graphene nanobud-modified-carbon felt electrode in acidic buffer solution (pH 4.0 ± 0.05).. <i>RSC Advances</i> , <b>2020</b> , 10, 37409-37418	3.7	5
83	Thermal and electrical properties of phenol formaldehyde foams reinforcing with reduced graphene oxide. <i>Polymer Composites</i> , <b>2020</b> , 41, 4329-4339	3	5
82	Influence of reduced graphene oxide on flow behaviour, glass transition temperature and secondary crystallinity of plasticized poly(vinyl chloride).. <i>RSC Advances</i> , <b>2020</b> , 10, 29247-29256	3.7	5
81	Development and characterization of cellulose nanofibre reinforced Acacia nilotica gum nanocomposite. <i>Industrial Crops and Products</i> , <b>2021</b> , 161, 113180	5.9	5
80	Materials for Polymer Nanocomposites <b>2016</b> , 1-28		5
79	Defects characterisation and studies of structural properties of sol-gel synthesised MgFe <sub>2</sub> O <sub>4</sub> nanocrystals through positron annihilation and supportive spectroscopic methods. <i>Philosophical Magazine</i> , <b>2020</b> , 100, 32-61	1.6	5
78	Effects of nanofillers on morphology and surface wetting of microporous polypropylene composite membranes. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 257, 123742	4.4	5
77	Dynamic energy transfer in non-covalently functionalized reduced graphene oxide/silver nanoparticle hybrid (NF-RGO/Ag) with NF-RGO as the donor material. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 2651-2659	2.1	4
76	Synthesis of highly sensitive rGO@CNT@Fe <sub>2</sub> O <sub>3</sub> /polypyrrole nanocomposite for the electrochemical detection of Pb <sup>2+</sup> . <i>Materials Today Communications</i> , <b>2021</b> , 26, 102005	2.5	4
75	Fabrication of Silver-Decorated Graphene Oxide Nanohybrids via Pulsed Laser Ablation with Excellent Antimicrobial and Optical Limiting Performance. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
74	Cloud and aerosol characteristics during dry and wet days of southwest monsoon over the rain shadow region of Western Ghats, India. <i>Meteorology and Atmospheric Physics</i> , <b>2021</b> , 133, 1299-1316	2	4
73	Enrichment of magnetoelectric effect in the hexagonal BaTi <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> artificial type-II multiferroics by defects. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 529, 167927	2.8	4
72	Miscibility, microstructure, and in situ cure analysis of epoxy/AN <sub>2</sub> loisite 20A nanocomposites. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 1395-1403	3.6	4
71	Recycled Polyurethane as a Second Phase in Thermoset Blends and Its Effect on Thermal Degradation Kinetics Studies. <i>Macromolecular Symposia</i> , <b>2018</b> , 381, 1800112	0.8	4
70	Enhanced mechanical and thermal performance of multiwalled carbon nanotubes-filled polypropylene/natural rubber thermoplastic elastomers. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 4963-4976	3.6	4
69	Development of oral-fluid-impervious and fracture-resistant silver/poly(methyl methacrylate) nanoformulations for intra-oral/extra-oral rehabilitation. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47669	2.9	3
68	Additive Manufacturing of Poly( $\epsilon$ -Caprolactone) for Tissue Engineering. <i>Jom</i> , <b>2020</b> , 72, 4127-4138	2.1	3

67	Transport and solvent sensing characteristics of styrene butadiene rubber nanocomposites containing imidazolium ionic liquid modified carbon nanotubes. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49429	2.9	3
66	Casein mediated synthesis of stabilized metal/metal-oxide nanoparticles with varied surface morphology through pH alteration. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 246, 122803	4.4	3
65	Multiwalled carbon nanotubes@octavinyl polyhedral oligomeric silsesquioxanes nanocomposite preparation via cross-linking reaction in acidic media. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	3
64	Mechanical responses of epoxy/cloisite nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 281, 125755	4.4	3
63	Green Chemistry Approach for Fabrication of Polymer Composites. <i>Sustainable Chemistry</i> , <b>2021</b> , 2, 254-270	3.0	3
62	Room temperature multiferroic properties of BiFeO <sub>3</sub> /MnFe <sub>2</sub> O <sub>4</sub> nanocomposites. <i>Ceramics International</i> , <b>2021</b> , 47, 15267-15276	5.1	3
61	Interfacial tuning and designer morphologies of microporous membranes based on polypropylene/natural rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51208	2.9	3
60	Magnetic response of superparamagnetic multiferroic core-shell nanostructures <b>2016</b> ,		3
59	Influence of carbon black on cure properties and mechanical strength of natural rubber/butadiene rubber blends. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2021</b> , 58, 69-80	2.2	3
58	Recent Progress in Electromagnetic Interference Shielding Performance of Porous Polymer Nanocomposites: A Review. <i>Energies</i> , <b>2022</b> , 15, 3901	3.1	3
57	EFFECT OF IONIC LIQUID MODIFIED MWCNT ON THE RHEOLOGICAL AND MICROSTRUCTURAL DEVELOPMENTS IN STYRENE BUTADIENE RUBBER NANOCOMPOSITES. <i>Rubber Chemistry and Technology</i> , <b>2019</b> , 92, 531-545	1.7	2
56	Antibacterial and Sensing Properties of Dextrose Reduced Starch [Capped Silver Nanoparticles Synthesised via a Completely Green Method. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, 3943-3949	1.4	2
55	Tailoring the dielectric and magnetic properties of Eu-substituted BiFeO <sub>3</sub> nanoparticles. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 134-139	1.4	2
54	Size dependent nonlinear optical properties of YCrO <sub>3</sub> nanosystems <b>2014</b> ,		2
53	Green synthesis of CdSe/ZnS core-shell quantum dot nanophosphors and its Poly methyl methacrylate composite thin film in the visible spectral range. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1748, 26		2
52	Comparative study of structural and optical behavior of Er <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> phosphor prepared by different methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2022</b> , 275, 115511	3.1	2
51	Dielectric Properties of PMMA Films Reinforced with Ag/rGO Hybrid Composites. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 5970-5979	1.9	2
50	Theoretical Study on Tuning Band Gap and Electronic Properties of Atomically Thin Nanostructured MoS <sub>2</sub> /Metal Cluster Heterostructures. <i>ACS Omega</i> , <b>2021</b> , 6, 6623-6628	3.9	2

49	Tuning of photoluminescence emission of Y <sub>2</sub> SiO <sub>5</sub> :Tb <sup>3+</sup> , Eu <sup>3+</sup> phosphors by altering the Tb <sup>3+</sup> , Eu <sup>3+</sup> ratio. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 484-487	1.4	2
48	Exploring the optical limiting, photocatalytic and antibacterial properties of the BiFeO-NaNbO nanocomposite system.. <i>RSC Advances</i> , <b>2021</b> , 11, 8450-8458	3.7	2
47	An effective strategy for the development of multiferroic composite nanostructures with enhanced magnetoelectric coupling performance: a perovskite-spinel approach. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4866-4877	5.1	2
46	Self-assembled nanostructured viscoelastic and thermally stable high performance epoxy based nanomaterial for aircraft and automobile applications: An experimental and theoretical modeling approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 627, 127236	5.1	2
45	Detection of nitrobenzene in pristine and metal decorated 2D dichalcogenide VSe <sub>2</sub> : Perspectives from density functional theory. <i>Surfaces and Interfaces</i> , <b>2022</b> , 29, 101816	4.1	2
44	Lithium-ion battery separators based on electrospun PVDF: A review. <i>Surfaces and Interfaces</i> , <b>2022</b> , 101977	4.7	2
43	Transformation of essential minerals into tablet formulation with enhanced stability. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 2806-2819	4.6	1
42	Interface engineered ferrite@ferroelectric core-shell nanostructures: A facile approach to impart superior magneto-electric coupling <b>2018</b> ,		1
41	Luminescence and Optical Limiting Properties of Sr <sub>2</sub> CeO <sub>4</sub> Blue Emitter <b>2011</b> ,		1
40	The Open Aperture Z-Scan Studies on Biferroic YCrO <sub>3</sub> <b>2011</b> ,		1
39	Applications of Oxide Nanomaterials in Nonlinear Optics. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1454, 255-259		1
38	Sustainable lithium-ion battery separators derived from polyethylene oxide/lignocellulose coated electrospun P(VDF-TrFE) nanofibrous membranes. <i>Surfaces and Interfaces</i> , <b>2022</b> , 29, 101716	4.1	1
37	Engineered Phyllosilicate Clay-Based Antimicrobial Surfaces. <i>Materials Horizons</i> , <b>2020</b> , 95-108	0.6	1
36	Covalent anchoring of atomically precise glutathione-protected gold nanoclusters on graphene oxide nanosheets. <i>Nano Express</i> , <b>2020</b> , 1, 030005	2	1
35	Strengthened magnetoelectric multiferroic response in (K <sub>0.5</sub> Na <sub>0.5</sub> [Nb <sub>1-x</sub> Fex/2Mnx/2]O <sub>3</sub> ) ceramics. <i>Materials Letters</i> , <b>2020</b> , 261, 126988	3.3	1
34	Observation of room temperature multiferroicity in CuO-doped Sr <sub>3</sub> Bi <sub>4</sub> Ti <sub>6</sub> O <sub>21</sub> lead-free ferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 19232-19241	2.1	1
33	CLOISITE 10A AS AN EFFECTIVE ANTIBACTERIAL AGENT IN POLYMER MATRICES: ROLE OF NANOSCALE ROUGHNESS AND INTERFACIAL INTERACTIONS. <i>Clays and Clay Minerals</i> , <b>2021</b> , 69, 289-298 <sup>2.1</sup>		1
32	Laponite <sup>®</sup> clay/poly(ethylene oxide) gel beads for delivery of plant growth-promoting rhizobacteria. <i>Bulletin of Materials Science</i> , <b>2021</b> , 44, 1	1.7	1

31	Spectroscopic, Microscopic, X-Ray Diffraction and Thermal Stability Studies of Stearic Acid Modified Hydrotalcite Formed through Memory Effect. <i>Macromolecular Symposia</i> , <b>2021</b> , 398, 2000277	0.8	1
30	Mechanical and Thermal Properties of Epoxy/Poly(Styrene-co-Acrylonitrile) (SAN)/Organoclay Nanocomposites. <i>Macromolecular Symposia</i> , <b>2021</b> , 398, 2000184	0.8	1
29	Effect of HAF carbon black on curing, mechanical, thermal and neutron shielding properties of natural rubber - Low-density polyethylene composites. <i>Progress in Nuclear Energy</i> , <b>2021</b> , 141, 103940	2.3	1
28	Plasma assisted design of biocompatible 3D printed PCL/silver nanoparticle scaffolds: in vitro and in vivo analyses. <i>Materials Advances</i> ,	3.3	1
27	Hybrid materials for electromagnetic shielding: A review. <i>Polymer Composites</i> ,	3	1
26	TiO <sub>2</sub> @GO nanocomposites with high rGO content and luminescence quenching through green redox synthesis. <i>Surfaces and Interfaces</i> , <b>2022</b> , 30, 101812	4.1	1
25	Novel 3D porous aerogels engineered at nano scale from cellulose nano fibers and curcumin: An effective treatment for chronic wounds.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 287, 119338	10.3	1
24	Multiferroic and energy harvesting characteristics of P(VDF-TrFE)-CuFe <sub>2</sub> O <sub>4</sub> flexible films. <i>Polymer</i> , <b>2022</b> , 124910	3.9	1
23	Recent advances in bio-inspired multifunctional coatings for corrosion protection. <i>Progress in Organic Coatings</i> , <b>2022</b> , 168, 106858	4.8	1
22	Influence of spinel ferrites in the modification of magneto-electric coupling effect in BiFeO <sub>3</sub> . <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 208-212	1.4	0
21	Structural and Photoluminescence Studies on Nanosized Samarium-Doped Strontium Barium Niobate Ceramics. <i>Spectroscopy Letters</i> , <b>2012</b> , 45, 184-189	1.1	0
20	Cashew Apple Extract: A Novel, Potential Green Reducing Agent for the Synthesis of Reduced Graphene Oxide. <i>Journal of Nano Research</i> , <b>71</b> , 57-70	1	0
19	Fabrication of toughened plastic using styrene butadiene rubber-poly (methyl methacrylate) interpenetrating polymer networks. <i>Materials Today Chemistry</i> , <b>2021</b> , 19, 100383	6.2	0
18	Particle Size and Band Gap Calculation of Pure Y <sub>2</sub> SiO <sub>5</sub> Crystal Synthesized by Solid-State Reaction Method. <i>Brazilian Journal of Physics</i> , <b>2021</b> , 51, 599-604	1.2	0
17	Embracing nanotechnology concepts in the electronics industry <b>2021</b> , 405-421		0
16	Theoretical Study on Understanding the Effects of Core Structure and Energy Level Tuning on Efficiency of Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2100019	3.5	0
15	On the magnetic and magnetoelectric coupling properties of lead-free (1-x) Bi <sub>0.9</sub> La <sub>0.1</sub> FeO <sub>3</sub> /xLa <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (x = 0, 0.1, 0.2) composites at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
14	Origin of magnetic, magnetoelectric effect and the influence of reentrant ferroelectric phase on the structural and multiferroic properties of Dy <sup>3+</sup> -Fe <sup>3+</sup> co-substituted BaTiO <sub>3</sub> ceramics. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 538, 168260	2.8	0

- 13 Al<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub> nanoparticles loaded electrospun PVDF fibres: An inorganic-organic material with multifunctional traits. *Materials Chemistry and Physics*, **2022**, 282, 125977 4.4 ○
- 12 Hydrated metal salt and Y<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub>/La<sub>0.5</sub>K<sub>0.5</sub>NbO<sub>3</sub>-incorporated P(VDF-HFP) films: a promising combination of materials with multiferroic and energy harvesting properties. *Journal of Materials Science*, **2022**, 57, 7653-7666 4.3 ○
- 11 Random lasing in rhodamine 6G dye - Kaolinite nanoclay colloids under single shot nanosecond pumping. *Optical Materials*, **2022**, 129, 112408 3.3 ○
- 10 The Need for Engineering Antimicrobial Surfaces. *Materials Horizons*, **2020**, 1-12 0.6
- 9 Novel Graphene-Based Polymer Nanocomposites **2020**, 1-21
- 8 Natural Rubber/Graphene Nanocomposites and Their Applications. *Composites Science and Technology*, **2021**, 203-220
- 7 Nanomedicine: From Concept to Reality **2016**, 1-30
- 6 Self-assembled PMMA/ZnO nanocomposites with anti-staining and liquid barrier properties: their physicochemical perspectives and clinical implications as a biomaterial for Maxillofacial prosthetic rehabilitation. *Journal of Polymer Research*, **2020**, 27, 1 2.7
- 5 Novel Graphene-Based Polymer Nanocomposites **2021**, 1013-1033
- 4 Dielectric and magnetoelectric coupling properties of Lead-free (1-x) Bi<sub>0.9</sub>Sm<sub>0.1</sub>FeO<sub>3</sub> / (x) La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> (x = 0, 0.05, 0.1) composites at room temperature. *Materials Today: Proceedings*, **2021**, 47, 1755-1759 1.4
- 3 Investigation of photoluminescence behavior of Gd<sup>3+</sup> doped Y<sub>2</sub>SiO<sub>5</sub> phosphor prepared by combustion synthesis method. *Chemical Papers*, **2021**, 75, 3073-3079 1.9
- 2 Development of Novel Dimpled Electrospun P(VDF-TrFE) Nanofibers. *Macromolecular Symposia*, **2021**, 398, 2000215 0.8
- 1 A study of Cr<sup>3+</sup>-substitution induced defects restructuring in BiFeO<sub>3</sub> by positron annihilation and other supportive methods. *Physica E: Low-Dimensional Systems and Nanostructures*, **2022**, 142, 115286 3