

Nandakumar Kalarikkal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mechanical responses of epoxy/cloisite nanocomposites. <i>Materials Chemistry and Physics</i> , 2022 , 281, 125755	4.4	3
263	Sustainable lithium-ion battery separators derived from polyethylene oxide/lignocellulose coated electrospun P(VDF-TrFE) nanofibrous membranes. <i>Surfaces and Interfaces</i> , 2022 , 29, 101716	4.1	1
262	Comparative study of structural and optical behavior of Er ³⁺ doped Y ₂ SiO ₅ phosphor prepared by different methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 275, 115511	3.1	2
261	Advances and future outlook in epoxy/graphene composites for anticorrosive applications. <i>Progress in Organic Coatings</i> , 2022 , 162, 106571	4.8	5
260	Al ₃ Fe ₅ O ₁₂ nanoparticles loaded electrospun PVDF fibres: An inorganic-organic material with multifunctional traits. <i>Materials Chemistry and Physics</i> , 2022 , 282, 125977	4.4	0
259	Detection of nitrobenzene in pristine and metal decorated 2D dichalcogenide VSe ₂ : Perspectives from density functional theory. <i>Surfaces and Interfaces</i> , 2022 , 29, 101816	4.1	2
258	TiO ₂ /GO nanocomposites with high rGO content and luminescence quenching through green redox synthesis. <i>Surfaces and Interfaces</i> , 2022 , 30, 101812	4.1	1
257	Novel 3D porous aerogels engineered at nano scale from cellulose nano fibers and curcumin: An effective treatment for chronic wounds.. <i>Carbohydrate Polymers</i> , 2022 , 287, 119338	10.3	1
256	Hydrated metal salt and Y ₃ Fe ₅ O ₁₂ /Ba _{0.5} K _{0.5} NbO ₃ -incorporated P(VDF-HFP) films: a promising combination of materials with multiferroic and energy harvesting properties. <i>Journal of Materials Science</i> , 2022 , 57, 7653-7666	4.3	0
255	Lithium-ion battery separators based on electrospun PVDF: A review. <i>Surfaces and Interfaces</i> , 2022 , 101977	4.7	2
254	Multiferroic and energy harvesting characteristics of P(VDF-TrFE)-CuFe ₂ O ₄ flexible films. <i>Polymer</i> , 2022 , 124910	3.9	1
253	Recent advances in bio-inspired multifunctional coatings for corrosion protection. <i>Progress in Organic Coatings</i> , 2022 , 168, 106858	4.8	1
252	A study of Cr ³⁺ -substitution induced defects restructuring in BiFeO ₃ by positron annihilation and other supportive methods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 142, 115286	3	3
251	Recent Progress in Electromagnetic Interference Shielding Performance of Porous Polymer Nanocomposites: A Review. <i>Energies</i> , 2022 , 15, 3901	3.1	3
250	Random lasing in rhodamine 6G dye - Kaolinite nanoclay colloids under single shot nanosecond pumping. <i>Optical Materials</i> , 2022 , 129, 112408	3.3	0
249	Natural Rubber/Graphene Nanocomposites and Their Applications. <i>Composites Science and Technology</i> , 2021 , 203-220		
248	Fabrication of toughened plastic using styrene butadiene rubber-poly (methyl methacrylate) interpenetrating polymer networks. <i>Materials Today Chemistry</i> , 2021 , 19, 100383	6.2	0

247	Synthesis of highly sensitive rGO@CNT@Fe ₂ O ₃ /polypyrrole nanocomposite for the electrochemical detection of Pb ²⁺ . <i>Materials Today Communications</i> , 2021 , 26, 102005	2.5	4
246	Development and characterization of cellulose nanofibre reinforced Acacia nilotica gum nanocomposite. <i>Industrial Crops and Products</i> , 2021 , 161, 113180	5.9	5
245	Particle Size and Band Gap Calculation of Pure Y ₂ SiO ₅ Crystal Synthesized by Solid-State Reaction Method. <i>Brazilian Journal of Physics</i> , 2021 , 51, 599-604	1.2	0
244	Fabrication of Silver-Decorated Graphene Oxide Nanohybrids via Pulsed Laser Ablation with Excellent Antimicrobial and Optical Limiting Performance. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
243	Theoretical Study on Tuning Band Gap and Electronic Properties of Atomically Thin Nanostructured MoS ₂ /Metal Cluster Heterostructures. <i>ACS Omega</i> , 2021 , 6, 6623-6628	3.9	2
242	CLOISITE 10A AS AN EFFECTIVE ANTIBACTERIAL AGENT IN POLYMER MATRICES: ROLE OF NANOSCALE ROUGHNESS AND INTERFACIAL INTERACTIONS. <i>Clays and Clay Minerals</i> , 2021 , 69, 289-298 ^{2.1}		1
241	Green Chemistry Approach for Fabrication of Polymer Composites. <i>Sustainable Chemistry</i> , 2021 , 2, 254-270	3.6	3
240	Laponite [®] clay/poly(ethylene oxide) gel beads for delivery of plant growth-promoting rhizobacteria. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	1
239	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> , 2021 , 264, 124453	4.4	7
238	Enhanced photocatalytic performance of BaTiO ₃ /g-C ₃ N ₄ heterojunction for the degradation of organic pollutants. <i>Chemical Physics Letters</i> , 2021 , 771, 138513	2.5	8
237	Room temperature multiferroic properties of BiFeO ₃ /MnFe ₂ O ₄ nanocomposites. <i>Ceramics International</i> , 2021 , 47, 15267-15276	5.1	3
236	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> , 2021 , 133, 1299-1316	2	4
235	Novel drug delivery systems based on triaxial electrospinning based nanofibers. <i>Reactive and Functional Polymers</i> , 2021 , 163, 104895	4.6	23
234	Interfacial tuning and designer morphologies of microporous membranes based on polypropylene/natural rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51208	2.9	3
233	Nitrobenzene sensing in pristine and metal doped 2D dichalcogenide MoS ₂ : Insights from density functional theory investigations. <i>Applied Surface Science</i> , 2021 , 550, 149395	6.7	6
232	Enrichment of magnetoelectric effect in the hexagonal BaTi _{1-x} CoxO ₃ artificial type-II multiferroics by defects. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 529, 167927	2.8	4
231	Tuning of photoluminescence emission of Y ₂ SiO ₅ :Tb ³⁺ , Eu ³⁺ phosphors by altering the Tb ³⁺ , Eu ³⁺ ratio. <i>Materials Today: Proceedings</i> , 2021 , 34, 484-487	1.4	2
230	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> , 2021 , 58, 69-80	2.2	3

229	Insights into the biomechanical properties of plasma treated 3D printed PCL scaffolds decorated with gold nanoparticles. <i>Composites Science and Technology</i> , 2021 , 202, 108544	8.6	10
228	Effects of nanofillers on morphology and surface wetting of microporous polypropylene composite membranes. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123742	4.4	5
227	Novel Graphene-Based Polymer Nanocomposites 2021 , 1013-1033		
226	Embracing nanotechnology concepts in the electronics industry 2021 , 405-421		0
225	Miscibility, microstructure, and in situ cure analysis of epoxy/BAE Nanoclay 20A nanocomposites. <i>New Journal of Chemistry</i> , 2021 , 45, 1395-1403	3.6	4
224	Exploring the optical limiting, photocatalytic and antibacterial properties of the BiFeO-NaNbO nanocomposite system.. <i>RSC Advances</i> , 2021 , 11, 8450-8458	3.7	2
223	An effective strategy for the development of multiferroic composite nanostructures with enhanced magnetoelectric coupling performance: a perovskite/epinel approach. <i>Nanoscale Advances</i> , 2021 , 3, 4866-4877	5.1	2
222	Dielectric and magnetoelectric coupling properties of Lead-free (1-x) Bi 0.9Sm 0.1FeO 3/ (x) La 0.7Sr 0.3MnO3 (x = 0, 0.05, 0.1) composites at room temperature. <i>Materials Today: Proceedings</i> , 2021 , 47, 1755-1759	1.4	
221	Investigation of photoluminescence behavior of Gd ³⁺ doped Y ₂ SiO ₅ phosphor prepared by combustion synthesis method. <i>Chemical Papers</i> , 2021 , 75, 3073-3079	1.9	
220	Recycling of medical plastics. <i>Advanced Industrial and Engineering Polymer Research</i> , 2021 , 4, 199-208	7.3	10
219	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> , 2021 , 4, 2100019	3.5	0
218	Spectroscopic, Microscopic, X-Ray Diffraction and Thermal Stability Studies of Stearic Acid Modified Hydrotalcite Formed through Memory Effect. <i>Macromolecular Symposia</i> , 2021 , 398, 2000277	0.8	1
217	Mechanical and Thermal Properties of Epoxy/Poly(Styrene-co-Acrylonitrile) (SAN)/Organoclay Nanocomposites. <i>Macromolecular Symposia</i> , 2021 , 398, 2000184	0.8	1
216	Development of Novel Dimpled Electrospun P(VDF-TrFE) Nanofibers. <i>Macromolecular Symposia</i> , 2021 , 398, 2000215	0.8	
215	Catechol detection in pure and transition metal decorated 2D MoS ₂ : Acumens from density functional theory approaches. <i>Applied Surface Science</i> , 2021 , 562, 150216	6.7	6
214	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> , 2021 , 627, 127236	5.1	2
213	Origin of magnetic, magnetoelectric effect and the influence of reentrant ferroelectric phase on the structural and multiferroic properties of Dy ³⁺ -Fe ³⁺ co-substituted BaTiO ₃ ceramics. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 538, 168260	2.8	0
212	Sea urchin-like Ni encapsulated with BaTiO ₃ to form multiferroic core-shell structures for room temperature magnetoelectric sensors. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160579	5.7	6

211	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> , 2021 , 141, 103940	2.3	1
210	Enhanced mechanical and thermal performance of multiwalled carbon nanotubes-filled polypropylene/natural rubber thermoplastic elastomers. <i>New Journal of Chemistry</i> , 2021 , 45, 4963-4976 ^{3,6}	3.6	4
209	Fabrication and functionalization of 3D-printed soft and hard scaffolds with growth factors for enhanced bioactivity.. <i>RSC Advances</i> , 2020 , 10, 37928-37937	3.7	5
208	Cellulose nanocomposites: Fabrication and biomedical applications. <i>Journal of Bioresources and Bioproducts</i> , 2020 , 5, 223-237	18.7	131
207	Additive Manufacturing of Poly (εCaprolactone) for Tissue Engineering. <i>Jom</i> , 2020 , 72, 4127-4138	2.1	3
206	Viscoelastic and electrical properties of RGO reinforced phenol formaldehyde nanocomposites. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49211	2.9	8
205	Transformation of essential minerals into tablet formulation with enhanced stability. <i>Advanced Powder Technology</i> , 2020 , 31, 2806-2819	4.6	1
204	Enhanced magnetoelectric coupling and dielectric constant in flexible ternary composite electrospun fibers of PVDF-HFP loaded with nanoclay and NiFe ₂ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2020 , 44, 11356-11364	3.6	9
203	Ultra-fast heat dissipating aerogels derived from polyaniline anchored cellulose nanofibers as sustainable microwave absorbers. <i>Carbohydrate Polymers</i> , 2020 , 246, 116663	10.3	26
202	Transport and solvent sensing characteristics of styrene butadiene rubber nanocomposites containing imidazolium ionic liquid modified carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49429	2.9	3
201	Second harmonic scattering from mass characterized 2D graphene oxide sheets. <i>Chemical Communications</i> , 2020 , 56, 3859-3862	5.8	13
200	Casein mediated synthesis of stabilized metal/metal-oxide nanoparticles with varied surface morphology through pH alteration. <i>Materials Chemistry and Physics</i> , 2020 , 246, 122803	4.4	3
199	Tailoring the dielectric and magnetic properties of Eu-substituted BiFeO ₃ nanoparticles. <i>Materials Today: Proceedings</i> , 2020 , 25, 134-139	1.4	2
198	Influence of spinel ferrites in the modification of magneto-electric coupling effect in BiFeO ₃ . <i>Materials Today: Proceedings</i> , 2020 , 25, 208-212	1.4	0
197	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> , 2020 , 137, 48993	2.9	17
196	Room temperature ferromagnetism in carbon doped MoO ₃ for spintronic applications: A DFT study. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 502, 166503	2.8	13
195	Carboxymethylcellulose hybrid nanodispersions for edible coatings with potential anti-cancer properties. <i>International Journal of Biological Macromolecules</i> , 2020 , 157, 350-358	7.9	7
194	The Need for Engineering Antimicrobial Surfaces. <i>Materials Horizons</i> , 2020 , 1-12	0.6	

193 Novel Graphene-Based Polymer Nanocomposites **2020**, 1-21

192	Engineered Phyllosilicate Clay-Based Antimicrobial Surfaces. <i>Materials Horizons</i> , 2020 , 95-108	0.6	1
191	Flexible dopamine-functionalized BaTiO ₃ /BaTiZrO ₃ /BaZrO ₃ -PVDF ferroelectric nanofibers for electrical energy storage. <i>Journal of Alloys and Compounds</i> , 2020 , 837, 155492	5.7	31
190	Covalent anchoring of atomically precise glutathione-protected gold nanoclusters on graphene oxide nanosheets. <i>Nano Express</i> , 2020 , 1, 030005	2	1
189	Strengthened magnetoelectric multiferroic response in (K _{0.5} Na _{0.5} [Nb _{1-x} Fe _x /2Mn _x /2]O ₃) ceramics. <i>Materials Letters</i> , 2020 , 261, 126988	3.3	1
188	Defect-focused analysis of calcium-substitution-induced structural transformation of magnesium ferrite nanocrystals. <i>New Journal of Chemistry</i> , 2020 , 44, 1556-1570	3.6	5
187	Reduced graphene oxide/silver nanohybrid as a multifunctional material for antibacterial, anticancer, and SERS applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	10
186	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> , 2020 , 599, 412431	2.8	9
185	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> , 2020 , 10, 37409-37418	3.7	5
184	Observation of room temperature multiferroicity in CuO-doped Sr ₃ Bi ₄ Ti ₆ O ₂₁ lead-free ferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 19232-19241	2.1	1
183	Carbon black distribution in natural rubber/butadiene rubber blend composites: Distribution driven by morphology. <i>Composites Science and Technology</i> , 2020 , 200, 108484	8.6	7
182	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> , 2020 , 22, 18169-18182	3.6	8
181	Grape seed extract-soluplus dispersion and its antioxidant activity. <i>Drug Development and Industrial Pharmacy</i> , 2020 , 46, 1219-1229	3.6	7
180	Magnetically recoverable Ir/IrO ₂ @Fe ₃ O ₄ core/ SiO ₂ shell catalyst for the reduction of organic pollutants in water. <i>Chemical Physics Letters</i> , 2020 , 742, 137147	2.5	8
179	Thermal and electrical properties of phenol formaldehyde foams reinforcing with reduced graphene oxide. <i>Polymer Composites</i> , 2020 , 41, 4329-4339	3	5
178	Bionanocomposites as industrial materials, current and future perspectives: a review. <i>Emergent Materials</i> , 2020 , 3, 711-725	3.5	11
177	BaTiO ₃ /ZnO heterostructured photocatalyst with improved efficiency in dye degradation. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123583	4.4	9
176	Facile fabrication of microporous polypropylene membrane separator for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123473	4.4	8

175	Dielectric Properties of PMMA Films Reinforced with Ag/rGO Hybrid Composites. <i>Journal of Electronic Materials</i> , 2020 , 49, 5970-5979	1.9	2
174	Application of novel zinc oxide reinforced xanthan gum hybrid system for edible coatings. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 806-813	7.9	17
173	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. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	
172	Influence of reduced graphene oxide on flow behaviour, glass transition temperature and secondary crystallinity of plasticized poly(vinyl chloride).. <i>RSC Advances</i> , 2020 , 10, 29247-29256	3.7	5
171	Gold nanoparticles against respiratory diseases: oncogenic and viral pathogens review. <i>Therapeutic Delivery</i> , 2020 , 11, 521-534	3.8	18
170	Polyurethane glycolysate from industrial waste recycling to develop low dielectric constant, thermally stable materials suitable for the electronics. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 2110-2120	5.9	6
169	Defects characterisation and studies of structural properties of sol-gel synthesised MgFe ₂ O ₄ nanocrystals through positron annihilation and supportive spectroscopic methods. <i>Philosophical Magazine</i> , 2020 , 100, 32-61	1.6	5
168	Natural rubber nanocomposites with MWCNT@POSS hybrid filler: Preparation and properties. <i>Polymer Composites</i> , 2020 , 41, 369-380	3	6
167	Nano formulated proanthocyanidins as an effective wound healing component. <i>Materials Science and Engineering C</i> , 2020 , 106, 110056	8.3	21
166	In Situ Decoration of Gold Nanoparticles on Graphene Oxide via Nanosecond Laser Ablation for Remarkable Chemical Sensing and Catalysis. <i>Nanomaterials</i> , 2019 , 9,	5.4	20
165	UV-Induced reduction of graphene oxide in cellulose nanofibril composites. <i>New Journal of Chemistry</i> , 2019 , 43, 681-688	3.6	27
164	Room temperature magnetoelectric properties of lead-free alkaline niobate based particulate composites. <i>Ceramics International</i> , 2019 , 45, 8115-8122	5.1	12
163	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> , 2019 , 21, 13099-13108	3.6	22
162	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900058	5.5	23
161	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> , 2019 , 21, 11424-11434	3.6	9
160	Excellent electromagnetic shield derived from MWCNT reinforced NR/PP blend nanocomposites with tailored microstructural properties. <i>Composites Part B: Engineering</i> , 2019 , 173, 106798	10	45
159	Thermal, biodegradation and theoretical perspectives on nanoscale confinement in starch/cellulose nanocomposite modified via green crosslinker. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 781-790	7.9	12
158	Graphene Nanobuds: A New Second-Generation Phosgene Sensor with Ultralow Detection Limit in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19339-19349	9.5	16

157	Chemical modification of graphene with grape seed extract: Its structural, optical and antimicrobial properties. <i>Materials Science and Engineering C</i> , 2019 , 102, 305-314	8.3	16
156	Effect of CoFe ₂ O ₄ weight fraction on multiferroic and magnetoelectric properties of (1-x)Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ -xCoFe ₂ O ₄ particulate composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8239-8248	2.1	10
155	EFFECT OF IONIC LIQUID MODIFIED MWCNT ON THE RHEOLOGICAL AND MICROSTRUCTURAL DEVELOPMENTS IN STYRENE BUTADIENE RUBBER NANOCOMPOSITES. <i>Rubber Chemistry and Technology</i> , 2019 , 92, 531-545	1.7	2
154	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> , 2019 , 136, 47669	2.9	3
153	Poly(ϵ -caprolactone) Microsphere Decorated with Nano-ZnO Based Phytoformulation: A Promising Antimicrobial Agent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 1503-1513	3.2	7
152	Structural, optical and photoluminescence studies of sol-gel synthesized pure and iron doped TiO ₂ photocatalysts. <i>Ceramics International</i> , 2019 , 45, 25060-25068	5.1	43
151	Effect of particle size and dopant concentration on the Raman and the photoluminescence spectra of TiO ₂ :Eu ³⁺ nanophosphor thin films. <i>Journal of Luminescence</i> , 2019 , 211, 320-333	3.8	34
150	Magnetic performance and defect characterization studies of core-shell architected MgFeO@BaTiO multiferroic nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8709-8720	3.6	16
149	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. <i>Materials Today Communications</i> , 2019 , 19, 319-335	2.5	69
148	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> , 2019 , 30, 96	4.5	19
147	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> , 2019 , 23, 1090-1101	4.3	5
146	Nanoparticle- and Nanoporous-Membrane-Mediated Delivery of Therapeutics. <i>Pharmaceutics</i> , 2019 , 11,	6.4	21
145	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> , 2019 , 26, 1	2.7	15
144	Flexible and self-standing nickel ferrite-PVDF-TrFE cast films: promising candidates for high-end magnetoelectric applications. <i>Dalton Transactions</i> , 2019 , 48, 16961-16973	4.3	26
143	Influence of POSS fillers on the transport properties of natural rubber nanocomposites. <i>Polymer Composites</i> , 2019 , 40, 3020-3031	3	16
142	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> , 2019 , 97, 723-729	8.3	20
141	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> , 2019 , 95, 594-601	5.3	17
140	Surface engineering of polystyrene/berium oxide nanocomposite thin films for refractive index enhancement. <i>Nano Structures Nano Objects</i> , 2019 , 17, 34-42	5.6	12

139	Physicochemical, mechanical, barrier and antibacterial properties of starch nanocomposites crosslinked with pre-oxidised sucrose. <i>Industrial Crops and Products</i> , 2019 , 130, 398-408	5.9	22
138	Antimicrobial properties of MFeO (M = Mn, Mg)/reduced graphene oxide composites synthesized via solvothermal method. <i>Materials Science and Engineering C</i> , 2019 , 95, 43-48	8.3	12
137	Carbon nanotube reinforced poly(trimethylene terephthalate) nanocomposites: Viscoelastic properties and chain confinement. <i>Polymer Engineering and Science</i> , 2019 , 59, E435-E445	2.3	6
136	Development of plasticized poly (vinyl chloride)/reduced graphene oxide nanocomposites for energy storage applications. <i>Polymer Testing</i> , 2019 , 73, 250-257	4.5	16
135	Toughness augmentation by fibrillation and yielding in nanostructured blends with recycled polyurethane as a modifier. <i>Applied Surface Science</i> , 2018 , 442, 403-411	6.7	19
134	Preparation, characterization and in vitro study of liposomal curcumin powder by cost effective nanofiber weaving technology. <i>New Journal of Chemistry</i> , 2018 , 42, 5117-5127	3.6	26
133	Morphology correlated free volume studies of multi-walled carbon nanotube plasticized poly (vinyl chloride) nanocomposites: Positronium probes and electrical properties. <i>Polymer</i> , 2018 , 141, 232-243	3.9	15
132	Multifunctional nitrogen sulfur co-doped reduced graphene oxide [Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. <i>Carbon</i> , 2018 , 132, 380-393	10.4	31
131	Excellent Electromagnetic Interference Shielding and High Electrical Conductivity of Compatibilized Polycarbonate/Polypropylene Carbon Nanotube Blend Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4287-4297	3.9	69
130	Tuning of microstructure in engineered poly (trimethylene terephthalate) based blends with nano inclusion as multifunctional additive. <i>Polymer Testing</i> , 2018 , 68, 395-404	4.5	16
129	Interface engineered ferrite@ferroelectric core-shell nanostructures: A facile approach to impart superior magneto-electric coupling 2018 ,		1
128	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> , 2018 , 122, 1525-1536	3.4	38
127	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> , 2018 , 153, 198-204	5.2	21
126	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> , 2018 , 42, 1939-1951	3.6	19
125	Dopamine functionalization of BaTiO: an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO-PVDF-TrFE nanocomposites. <i>Dalton Transactions</i> , 2018 , 47, 2039-2051	4.3	41
124	Silver-attached reduced graphene oxide nanocomposite as an eco-friendly photocatalyst for organic dye degradation. <i>Research on Chemical Intermediates</i> , 2018 , 44, 5597-5621	2.8	20
123	Magnetic and dielectric properties of nickel-ferrite-embedded natural rubber composites. <i>Polymer Bulletin</i> , 2018 , 75, 5217-5234	2.4	6
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