

Deepalekshmi Ponnamma

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.

43
papers

1,390
citations

22
h-index

36
g-index

46
ext. papers

1,890
ext. citations

3.5
avg, IF

5.6
L-index

#	Paper	IF	Citations
43	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. <i>Polymers</i> , 2021 , 13,	4.5	121
42	Piezoelectric properties of zinc oxide/iron oxide filled polyvinylidene fluoride nanocomposite fibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14610-14622	2.1	2
41	Carbon dioxide adsorption based on porous materials.. <i>RSC Advances</i> , 2021 , 11, 12658-12681	3.7	27
40	Designing Flexible and Porous Fibrous Membranes for Oil Water Separation: A Review of Recent Developments. <i>Polymer Reviews</i> , 2020 , 60, 671-716	14	38
39	Gas Sensing and Power Harvesting Polyvinylidene Fluoride Nanocomposites Containing Hybrid Nanotubes. <i>Journal of Electronic Materials</i> , 2020 , 49, 2677-2687	1.9	2
38	Effect of anions on the structural, morphological and dielectric properties of hydrothermally synthesized hydroxyapatite nanoparticles. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	5
37	Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. <i>Polymers</i> , 2020 , 12,	4.5	14
36	Methanol Electrolysis for Hydrogen Production Using Polymer Electrolyte Membrane: A Mini-Review. <i>Energies</i> , 2020 , 13, 5879	3.1	17
35	Mesoporous silica filled smart super oleophilic fibers of triblock copolymer nanocomposites for oil absorption applications. <i>Emergent Materials</i> , 2020 , 3, 279-290	3.5	12
34	Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and HO. <i>Biosensors</i> , 2020 , 10,	5.9	28
33	Green synthesized materials for sensor, actuator, energy storage and energy generation: a review. <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 1-62	1.5	14
32	Electrospun nanofibers of PVDF-HFP composites containing magnetic nickel ferrite for energy harvesting application. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122257	4.4	27
31	Smart and robust electrospun fabrics of piezoelectric polymer nanocomposite for self-powering electronic textiles. <i>Materials and Design</i> , 2019 , 184, 108176	8.1	52
30	Influence of BaTiO ₃ /white graphene filler synergy on the energy harvesting performance of a piezoelectric polymer nanocomposite. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 774-785	5.8	37
29	Effect of cerium doping on the optical and photocatalytic properties of ZnO nanoflowers. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	26
28	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. <i>Materials</i> , 2019 , 12,	3.5	21
27	Toward High Power Generating Piezoelectric Nanofibers: Influence of Particle Size and Surface Electrostatic Interaction of Ce-FeO and Ce-CoO on PVDF. <i>ACS Omega</i> , 2019 , 4, 6312-6323	3.9	29

26	Investigation of antimicrobial properties and in-vitro bioactivity of Ce ³⁺ -Sr ²⁺ -dual-substituted nano hydroxyapatites. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 144-157	3.8	15
25	Developing Polyaniline Filled Isoprene Composite Fibers by Electrospinning: Effect of Filler Concentration on the Morphology and Glass Transition. <i>Polymer Science - Series A</i> , 2019 , 61, 194-202	1.2	4
24	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. <i>Polymers</i> , 2019 , 12,	4.5	10
23	Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. <i>Optik</i> , 2019 , 176, 372-383	2.5	6
22	Studies on the Mechanical, Morphological and Electrical Properties of Highly Dispersible Graphene Oxide Reinforced Polypyrrole and Polyvinylalcohol Blend Composites. <i>Materials Today: Proceedings</i> , 2018 , 5, 8744-8752	1.4	16
21	Vapor sensing performances of PVDF nanocomposites containing titanium dioxide nanotubes decorated multi-walled carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4402-4412	2.1	18
20	Stretchable Electrospun PVDF-HFP/Co-ZnO Nanofibers as Piezoelectric Nanogenerators. <i>Scientific Reports</i> , 2018 , 8, 754	4.9	155
19	Studies on the Electrical Properties of Graphene Oxide-Reinforced Poly (4-Styrene Sulfonic Acid) and Polyvinyl Alcohol Blend Composites. <i>International Journal of Nanoscience</i> , 2018 , 17, 1760005	0.6	14
18	In-vitro biocompatibility, bioactivity and photoluminescence properties of Eu /Sr dual-doped nano-hydroxyapatite for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2191-2201	3.5	10
17	Stretchable quaternary phasic PVDF-HFP nanocomposite films containing graphene-titania-SrTiO ₃ for mechanical energy harvesting. <i>Emergent Materials</i> , 2018 , 1, 55-65	3.5	80
16	Controlling the sensing performance of rGO filled PVDF nanocomposite with the addition of secondary nanofillers. <i>Synthetic Metals</i> , 2018 , 243, 34-43	3.6	22
15	Investigation on the Electrical Properties of Lithium Ion Conducting Polymer Electrolyte Films Based on Biodegradable Polymer Blends. <i>Advanced Science Letters</i> , 2018 , 24, 5496-5502	0.1	14
14	Nanoflower-like Yttrium-doped ZnO Photocatalyst for the Degradation of Methylene Blue Dye. <i>Photochemistry and Photobiology</i> , 2018 , 94, 237-246	3.6	36
13	Investigation on the effect of γ irradiation on the dielectric and piezoelectric properties of stretchable PVDF/Fe-ZnO nanocomposites for self-powering devices. <i>Soft Matter</i> , 2018 , 14, 8803-8813	3.6	34
12	Curing enhancement and network effects in multi-walled carbon nanotube-filled vulcanized natural rubber: evidence for solvent sensing. <i>Polymer International</i> , 2017 , 66, 931-938	3.3	10
11	Date palm fibre filled recycled ternary polymer blend composites with enhanced flame retardancy. <i>Polymer Testing</i> , 2017 , 61, 341-348	4.5	31
10	Flexible tri-layer piezoelectric nanogenerator based on PVDF-HFP/Ni-doped ZnO nanocomposites. <i>RSC Advances</i> , 2017 , 7, 50156-50165	3.7	62
9	Graphene oxide reinforced poly (4-styrenesulfonic acid)/polyvinyl alcohol blend composites with enhanced dielectric properties for portable and flexible electronics. <i>Materials Chemistry and Physics</i> , 2017 , 186, 188-201	4.4	77

8	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017 , 9,	4.5	77
7	Physico-Mechanical, Dielectric, and Piezoelectric Properties of PVDF Electrospun Mats Containing Silver Nanoparticles. <i>Journal of Carbon Research</i> , 2017 , 3, 30	3.3	43
6	High- quality factor poly (vinylidene fluoride) based novel nanocomposites filled with graphene nanoplatelets and vanadium pentoxide for high-Q capacitor applications. <i>Advanced Materials Letters</i> , 2017 , 8, 288-294	2.4	28
5	Recent advances in electrochemical biosensor and gas sensors based on graphene and carbon nanotubes (CNT) - A review. <i>Advanced Materials Letters</i> , 2017 , 8, 196-205	2.4	22
4	Oleic acid-grafted chitosan/graphene oxide composite coating for corrosion protection of carbon steel. <i>Carbohydrate Polymers</i> , 2016 , 151, 871-878	10.3	91
3	FLEXIBLE OIL SENSORS BASED ON MULTIWALLED CARBON NANOTUBE FILLED ISOPRENE ELASTOMER COMPOSITES. <i>Rubber Chemistry and Technology</i> , 2016 , 89, 306-315	1.7	9
2	Designing dual phase sensing materials from polyaniline filled styrene-isoprene-butylene composites. <i>Materials Chemistry and Physics</i> , 2014 , 147, 1029-1036	4.4	30
1	Core-Shell Nanofibers of Polyvinyl Alcohol/Poly lactic Acid Containing TiO ₂ Nanotubes for Natural Sunlight Driven Photocatalysis. <i>Macromolecular Materials and Engineering</i> , 2100482	3.9	0