

Deepalekshmi Ponnamma

List of Publications by Year in descending order

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45
papers

2,472
citations

218381

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253896

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docs citations

46
times ranked

2587
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. <i>Polymers</i> , 2021, 13, 1105.	2.0	435
2	Stretchable Electrospun PVDF-HFP/Co-ZnO Nanofibers as Piezoelectric Nanogenerators. <i>Scientific Reports</i> , 2018, 8, 754.	1.6	246
3	Oleic acid-grafted chitosan/graphene oxide composite coating for corrosion protection of carbon steel. <i>Carbohydrate Polymers</i> , 2016, 151, 871-878.	5.1	115
4	Carbon dioxide adsorption based on porous materials. <i>RSC Advances</i> , 2021, 11, 12658-12681.	1.7	109
5	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017, 9, 33.	2.0	108
6	Stretchable quaternary phasic PVDF-HFP nanocomposite films containing graphene-titania-SrTiO ₃ for mechanical energy harvesting. <i>Emergent Materials</i> , 2018, 1, 55-65.	3.2	105
7	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.	2.0	93
8	Smart and robust electrospun fabrics of piezoelectric polymer nanocomposite for self-powering electronic textiles. <i>Materials and Design</i> , 2019, 184, 108176.	3.3	91
9	Flexible tri-layer piezoelectric nanogenerator based on PVDF-HFP/Ni-doped ZnO nanocomposites. <i>RSC Advances</i> , 2017, 7, 50156-50165.	1.7	86
10	Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and H ₂ O ₂ . <i>Biosensors</i> , 2020, 10, 151.	2.3	72
11	Physico-Mechanical, Dielectric, and Piezoelectric Properties of PVDF Electrospun Mats Containing Silver Nanoparticles. <i>Journal of Carbon Research</i> , 2017, 3, 30.	1.4	66
12	Designing Flexible and Porous Fibrous Membranes for Oil Water Separation—A Review of Recent Developments. <i>Polymer Reviews</i> , 2020, 60, 671-716.	5.3	66
13	Nanoflower-like Yttrium-doped ZnO Photocatalyst for the Degradation of Methylene Blue Dye. <i>Photochemistry and Photobiology</i> , 2018, 94, 237-246.	1.3	64
14	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.	1.2	59
15	Electrospun nanofibers of PVDF-HFP composites containing magnetic nickel ferrite for energy harvesting application. <i>Materials Chemistry and Physics</i> , 2020, 239, 122257.	2.0	57
16	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.	2.5	54
17	Toward High Power Generating Piezoelectric Nanofibers: Influence of Particle Size and Surface Electrostatic Interaction of CeFe ₂ O ₃ and CeCo ₃ O ₄ on PVDF. <i>ACS Omega</i> , 2019, 4, 6312-6323.	1.6	46
18	Date palm fibre filled recycled ternary polymer blend composites with enhanced flame retardancy. <i>Polymer Testing</i> , 2017, 61, 341-348.	2.3	41

#	ARTICLE	IF	CITATIONS
19	Effect of cerium doping on the optical and photocatalytic properties of ZnO nanoflowers. Bulletin of Materials Science, 2019, 42, 1.	0.8	40
20	High- quality factor poly (vinylidene fluoride) based novel nanocomposites filled with graphene nanoplatelets and vanadium pentoxide for high-Q capacitor applications. Advanced Materials Letters, 2017, 8, 288-294.	0.3	40
21	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. Materials, 2019, 12, 709.	1.3	36
22	Methanol Electrolysis for Hydrogen Production Using Polymer Electrolyte Membrane: A Mini-Review. Energies, 2020, 13, 5879.	1.6	35
23	Designing dual phase sensing materials from polyaniline filled styrene- <i>isoprene</i> -styrene composites. Materials Chemistry and Physics, 2014, 147, 1029-1036.	2.0	34
24	Recent advances in electrochemical biosensor and gas sensors based on graphene and carbon nanotubes (CNT) - A review. Advanced Materials Letters, 2017, 8, 196-205.	0.3	32
25	Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. Polymers, 2020, 12, 2344.	2.0	31
26	Controlling the sensing performance of rGO filled PVDF nanocomposite with the addition of secondary nanofillers. Synthetic Metals, 2018, 243, 34-43.	2.1	27
27	Green synthesized materials for sensor, actuator, energy storage and energy generation: a review. Polymer-Plastics Technology and Materials, 2020, 59, 1-62.	0.6	26
28	The Separation of Oil/Water Mixtures by Modified Melamine and Polyurethane Foams: A Review. Polymers, 2021, 13, 4142.	2.0	26
29	Vapor sensing performances of PVDF nanocomposites containing titanium dioxide nanotubes decorated multi-walled carbon nanotubes. Journal of Materials Science: Materials in Electronics, 2018, 29, 4402-4412.	1.1	23
30	Investigation of antimicrobial properties and <i>in vitro</i> bioactivity of Ce ³⁺ -Sr ²⁺ dual substituted nano hydroxyapatites. Journal of the American Ceramic Society, 2019, 102, 144-157.	1.9	23
31	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. Polymers, 2020, 12, 4.	2.0	23
32	Mesoporous silica filled smart super oleophilic fibers of triblock copolymer nanocomposites for oil absorption applications. Emergent Materials, 2020, 3, 279-290.	3.2	21
33	Studies on the Electrical Properties of Graphene Oxide-Reinforced Poly (4-Styrene Sulfonic Acid) and Polyvinyl Alcohol Blend Composites. International Journal of Nanoscience, 2018, 17, 1760005.	0.4	18
34	Investigation on the Electrical Properties of Lithium Ion Conducting Polymer Electrolyte Films Based on Biodegradable Polymer Blends. Advanced Science Letters, 2018, 24, 5496-5502.	0.2	17
35	Studies on the Mechanical, Morphological and Electrical Properties of Highly Dispersible Graphene Oxide Reinforced Polypyrrole and Polyvinylalcohol Blend Composites. Materials Today: Proceedings, 2018, 5, 8744-8752.	0.9	16
36	FLEXIBLE OIL SENSORS BASED ON MULTIWALLED CARBON NANOTUBE-FILLED ISOPRENE ELASTOMER COMPOSITES. Rubber Chemistry and Technology, 2016, 89, 306-315.	0.6	15

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37	Effect of anions on the structural, morphological and dielectric properties of hydrothermally synthesized hydroxyapatite nanoparticles. SN Applied Sciences, 2020, 2, 1.	1.5	15
38	<i>In vitro</i> biocompatibility, bioactivity and photoluminescence properties of Eu ³⁺ /Sr ²⁺ dual doped nano hydroxyapatite for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2191-2201.	1.6	13
39	Piezoelectric properties of zinc oxide/iron oxide filled polyvinylidene fluoride nanocomposite fibers. Journal of Materials Science: Materials in Electronics, 2021, 32, 14610-14622.	1.1	13
40	Curing enhancement and network effects in multi-walled carbon nanotube filled vulcanized natural rubber: evidence for solvent sensing. Polymer International, 2017, 66, 931-938.	1.6	12
41	Gas Sensing and Power Harvesting Polyvinylidene Fluoride Nanocomposites Containing Hybrid Nanotubes. Journal of Electronic Materials, 2020, 49, 2677-2687.	1.0	8
42	Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. Optik, 2019, 176, 372-383.	1.4	7
43	Developing Polyaniline Filled Isoprene Composite Fibers by Electrospinning: Effect of Filler Concentration on the Morphology and Glass Transition. Polymer Science - Series A, 2019, 61, 194-202.	0.4	4
44	Core-Shell Nanofibers of Polyvinyl Alcohol/Polylactic Acid Containing TiO ₂ Nanotubes for Natural Sunlight Driven Photocatalysis. Macromolecular Materials and Engineering, 0, , 2100482.	1.7	3
45	Production of Biodiesel from Soybean Oil in Less Time and at Low Temperature. Asian Journal of Chemistry, 2022, 34, 2173-2177.	0.1	0