

Deepalekshmi Ponnamma

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4889252/deepalekshmi-ponnamma-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Stretchable Electrospun PVDF-HFP/Co-ZnO Nanofibers as Piezoelectric Nanogenerators. <i>Scientific Reports</i> , 2018 , 8, 754	4.9	155
42	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. <i>Polymers</i> , 2021 , 13,	4.5	121
41	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
40	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
39	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
38	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017 , 9,	4.5	77
37	Flexible tri-layer piezoelectric nanogenerator based on PVDF-HFP/Ni-doped ZnO nanocomposites. <i>RSC Advances</i> , 2017 , 7, 50156-50165	3.7	62
36	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
35	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
34	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
33	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
32	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
31	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
30	Date palm fibre filled recycled ternary polymer blend composites with enhanced flame retardancy. <i>Polymer Testing</i> , 2017 , 61, 341-348	4.5	31
29	Designing dual phase sensing materials from polyaniline filled styrene-butadiene-styrene composites. <i>Materials Chemistry and Physics</i> , 2014 , 147, 1029-1036	4.4	30
28	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
27	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

26	Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and HO. <i>Biosensors</i> , 2020 , 10,	5.9	28
25	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
24	Carbon dioxide adsorption based on porous materials.. <i>RSC Advances</i> , 2021 , 11, 12658-12681	3.7	27
23	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
22	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
21	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
20	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. <i>Materials</i> , 2019 , 12,	3.5	21
19	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
18	Methanol Electrolysis for Hydrogen Production Using Polymer Electrolyte Membrane: A Mini-Review. <i>Energies</i> , 2020 , 13, 5879	3.1	17
17	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
16	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
15	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
14	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
13	Core-Shell Nanofibers of Polyvinylidene Fluoride-based Nanocomposites as Piezoelectric Nanogenerators. <i>Polymers</i> , 2020 , 12,	4.5	14
12	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
11	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
10	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
9	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

8	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. <i>Polymers</i> , 2019 , 12,	4.5	10
7	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
6	Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. <i>Optik</i> , 2019 , 176, 372-383	2.5	6
5	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
4	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
3	Gas Sensing and Power Harvesting Polyvinylidene Fluoride Nanocomposites Containing Hybrid Nanotubes. <i>Journal of Electronic Materials</i> , 2020 , 49, 2677-2687	1.9	2
2	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
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