

Ashok Kumar

List of Publications by Year in descending order

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45
papers

1,573
citations

331670

21
h-index

302126

39
g-index

46
all docs

46
docs citations

46
times ranked

2196
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-polyethylenedioxythiophene conducting polymer nanocomposite based supercapacitor. <i>Electrochimica Acta</i> , 2011, 56, 9406-9412.	5.2	275
2	Estimates of interseismic deformation in Northeast India from GPS measurements. <i>Earth and Planetary Science Letters</i> , 2007, 263, 221-234.	4.4	122
3	Tunable (violet to green) emission by high-yield graphene quantum dots and exploiting its unique properties towards sun-light-driven photocatalysis and supercapacitor electrode materials. <i>Materials Today Communications</i> , 2017, 11, 76-86.	1.9	96
4	Biocompatible novel starch/polyaniline composites: Characterization, anti-cytotoxicity and antioxidant activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 81, 158-164.	5.0	86
5	Enhanced photocatalytic activity of rGO-CeO ₂ nanocomposites driven by sunlight. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 223, 98-108.	3.5	78
6	Facile synthesis of CdO nanorods and exploiting its properties towards supercapacitor electrode materials and low power UV irradiation driven photocatalysis against methylene blue dye. <i>Materials Research Bulletin</i> , 2017, 90, 224-231.	5.2	71
7	Rigid Indian plate: Constraints from GPS measurements. <i>Gondwana Research</i> , 2012, 22, 1068-1072.	6.0	69
8	Facile synthesis of CuO nanowires and Cu ₂ O nanospheres grown on rGO surface and exploiting its photocatalytic, antibacterial and supercapacitive properties. <i>Physica B: Condensed Matter</i> , 2019, 558, 74-81.	2.7	68
9	Surface functionalization effects on structural, conformational, and optical properties of polyaniline nanofibers. <i>Synthetic Metals</i> , 2014, 197, 225-232.	3.9	53
10	Conducting cryogel scaffold as a potential biomaterial for cell stimulation and proliferation. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 447-459.	3.6	44
11	Layer-by-layer self-assembly of ternary MoS ₂ -rGO@PPyNTs nanocomposites for high performance supercapacitor electrode. <i>Synthetic Metals</i> , 2018, 243, 75-89.	3.9	37
12	Castor Oil Based Hyperbranched Poly(ester amide)/Polyaniline Nanofiber Nanocomposites as Antistatic Materials. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5700-5707.	3.7	35
13	Chemically derived luminescent graphene oxide nanosheets and its sunlight driven photocatalytic activity against methylene blue dye. <i>Optical Materials</i> , 2016, 62, 320-327.	3.6	31
14	Electrically conductive MEH-PPV:PCL electrospun nanofibres for electrical stimulation of rat PC12 pheochromocytoma cells. <i>Biomaterials Science</i> , 2018, 6, 2342-2359.	5.4	29
15	Photoluminescence studies in HCl-doped polyaniline nanofibers. <i>Journal of Optics (India)</i> , 2009, 38, 124-130.	1.7	26
16	Crustal deformation rates in Assam Valley, Shillong Plateau, Eastern Himalaya, and Indo-Burmese region from 11 years (2002-2013) of GPS measurements. <i>International Journal of Earth Sciences</i> , 2017, 106, 2025-2038.	1.8	24
17	Amine-Functionalized Electrically Conductive Core-Shell MEH-PPV:PCL Electrospun Nanofibers for Enhanced Cell-Biomaterial Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3327-3346.	5.2	24
18	Investigation of Ionic Liquid interaction with ZnBDC-Metal Organic Framework through Scanning EXAFS and Inelastic Neutron Scattering. <i>Scientific Reports</i> , 2019, 9, 14741.	3.3	23

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19	Ion beam modified molybdenum disulfide-reduced graphene oxide/ polypyrrole nanotubes ternary nanocomposite for hybrid supercapacitor electrode. <i>Electrochimica Acta</i> , 2019, 312, 392-410.	5.2	23
20	Enhanced electrocatalytic activity of ion implanted rGO/PEDOT:PSS hybrid nanocomposites towards methanol electro-oxidation in direct methanol fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 35-51.	3.8	23
21	Polyaniline-graphene quantum dots (PANI-GQDs) hybrid for plastic solar cell. <i>Carbon Letters</i> , 2020, 30, 1-11.	5.9	23
22	Thermal, electrical, and dielectric properties of reduced graphene oxide-polyaniline nanotubes hybrid nanocomposites synthesized by <i>in situ</i> reduction and varying graphene oxide concentration. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45883.	2.6	22
23	Effects of solvent interactions on the structure and properties of prepared PAni nanofibers. <i>Journal of Applied Polymer Science</i> , 2012, 126, 830-836.	2.6	21
24	Enhanced ionic conductivity in novel nanocomposite gel polymer electrolyte based on intercalation of PMMA into layered LiV ₃ O ₈ . <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1649-1656.	2.5	20
25	Bio-based epoxy/polyaniline nanofiber-carbon dot nanocomposites as advanced anticorrosive materials. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47744.	2.6	20
26	Estimation of present-day inter-seismic deformation in Kopili fault zone of north-east India using GPS measurements. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 586-599.	4.3	19
27	Fluorescence enhancement of glutaraldehyde functionalized polyaniline nanofibers in the presence of aromatic amino acids. <i>Materials Science and Engineering C</i> , 2016, 61, 762-772.	7.3	19
28	Tunable degree of oxidation through variation of H ₂ O ₂ concentration and its effect on structural, optical and supercapacitive properties of graphene oxide powders synthesized using improved method. <i>Materials Today Communications</i> , 2017, 13, 26-35.	1.9	18
29	Surface functionalization-induced enhancement in surface properties and biocompatibility of polyaniline nanofibers. <i>RSC Advances</i> , 2015, 5, 48971-48982.	3.6	17
30	Inter annual, spatial, seasonal, and diurnal variability of precipitable water vapour over northeast India using GPS time series. <i>International Journal of Remote Sensing</i> , 2017, 38, 391-411.	2.9	15
31	Electrocatalytic Activity of rGO/PEDOT-PSS Nanocomposite towards Methanol Oxidation in Alkaline Media. <i>Electroanalysis</i> , 2018, 30, 2131-2144.	2.9	15
32	Surface modification of reduced graphene oxide-polyaniline nanotubes nanocomposites for improved supercapacitor electrodes. <i>Polymer Composites</i> , 2020, 41, 653-667.	4.6	15
33	Ion transport dynamics in ionic liquid incorporated CuBTC-metal-organic framework based composite polymer electrolyte. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1117-1132.	2.2	13
34	Biofunctionalized Multiwalled Carbon Nanotube: A Reactive Component for the <i>in Situ</i> Polymerization of Hyperbranched Poly(ester amide) and its Biophysico Interfacial Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25097-25107.	3.1	12
35	Green-Silver Nanoparticle-Decorated Multiwalled Carbon Nanotube: A Precursor for Fabrication of Multifunctional Biobased Sustainable Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2510-2518.	6.7	12
36	Study on the Miscibility of Polypyrrole and Polyaniline Polymer Blends. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-5.	1.8	12

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37	Surface-Functionalized Conducting Nanofibers for Electrically Stimulated Neural Cell Function. <i>Biomacromolecules</i> , 2021, 22, 594-611.	5.4	12
38	Symmetric Supercapacitors with layer-by-layer Molybdenum disulfide - reduced graphene oxide structures and poly(3,4-ethylenedioxythiophene) nanoparticles nanohybrid electrode. <i>Journal of Energy Storage</i> , 2021, 35, 102289.	8.1	12
39	PEO/P(VdF-HFP) blend based Li ⁺ ion-conducting composite polymer electrolytes dispersed with dedoped (insulating) polyaniline nanofibers. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 35-44.	2.5	11
40	Ternary hybrid nanocomposites of polypyrrole nanotubes with 2D self-assembled heterostructures of protonated g-C ₃ N ₄ -rGO as supercapacitor electrodes. <i>Ionics</i> , 2021, 27, 3153-3168.	2.4	8
41	Noise characteristics of GPS time series and their influence on velocity uncertainties. <i>Journal of Earth System Science</i> , 2019, 128, 1.	1.3	7
42	Dielectric and conductivity relaxation in poly(3,4-ethylenedioxythiophene) nanotubes. <i>Polymer Engineering and Science</i> , 2016, 56, 448-457.	3.1	5
43	Experimental studies on solid state electrical double layer capacitors using activated charcoal powder electrodes and PVdF-HFP based gel electrolytes. <i>Ionics</i> , 2004, 10, 213-220.	2.4	4
44	Study of polymerization dynamics in micropores of metal-organic framework. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2
45	Electrical and Optical Properties of Polypyrrole and Polyaniline Blends. <i>Polymer Science - Series A</i> , 2020, 62, 680-690.	1.0	2