

Gaurav Verma

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,102
citations

687363

13
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Green nanocomposites based on thermoplastic starch and steam exploded cellulose nanofibrils from wheat straw. <i>Carbohydrate Polymers</i> , 2010, 82, 337-345.	10.2	416
2	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells. <i>Progress in Materials Science</i> , 2019, 102, 1-71.	32.8	129
3	Multi-walled carbon nanotubes applied through seed priming influence early germination, root hair, growth and yield of bread wheat (<i>Triticum aestivum</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 3148-3160.	3.5	127
4	Green synthesis of peptide functionalized reduced graphene oxide (rGO) nano bioconjugate with enhanced antibacterial activity. <i>Scientific Reports</i> , 2020, 10, 9441.	3.3	65
5	Plant Nanobionic Effect of Multi-walled Carbon Nanotubes on Growth, Anatomy, Yield and Grain Composition of Rice. <i>BioNanoScience</i> , 2020, 10, 430-445.	3.5	34
6	A review on peptide functionalized graphene derivatives as nanotools for biosensing. <i>Mikrochimica Acta</i> , 2020, 187, 27.	5.0	32
7	Comparative assessment of nano-morphology and properties of spray coated clear polyurethane coatings reinforced with different organoclays. <i>Progress in Organic Coatings</i> , 2013, 76, 1046-1056.	3.9	29
8	Tracking multi-walled carbon nanotubes inside oat (<i>Avena sativa</i> L.) plants and assessing their effect on growth, yield, and mammalian (human) cell viability. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1399-1414.	3.1	28
9	Weathering, salt spray corrosion and mar resistance mechanism of clay (nano-platelet) reinforced polyurethane nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2019, 129, 260-270.	3.9	27
10	Preparation, characterization and properties of organoclay reinforced polyurethane nanocomposite coatings. <i>Journal of Plastic Film and Sheeting</i> , 2013, 29, 56-77.	2.2	23
11	Nano-interfaces between clay platelets and polyurethane hard segments in spray coated automotive nanocomposites.. <i>Progress in Organic Coatings</i> , 2016, 99, 282-294.	3.9	22
12	Optical properties of transition metal doped ZnS nanoparticles in PVK based nanocomposite films. <i>Optik</i> , 2020, 206, 164357.	2.9	21
13	Supramolecular modification of Carbon Nanofibers with Poly(diallyl dimethylammonium) chloride and Triton X-100 for electrochemical application. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6575-6585.	7.1	18
14	Morphology, X-ray Diffraction and Mechanical Properties of Resol-montmorillonite Clay Composites. <i>Journal of Thermoplastic Composite Materials</i> , 2010, 23, 79-97.	4.2	13
15	PBT/Thermoplastic Elastomer Blends—Mechanical, Morphological, and Rheological Characterization. <i>Polymer-Plastics Technology and Engineering</i> , 2008, 47, 969-977.	1.9	11
16	A versatile lead iodide particle synthesis and film surface analysis for optoelectronics. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154486.	5.5	10
17	Morphology and surface analyses for $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite thin films treated with versatile solvent—antisolvent vapors. <i>RSC Advances</i> , 2021, 11, 17789-17799.	3.6	10
18	Facile and scalable functionalization of carbon nanofibers for oxygen reduction reaction: Role of nitrogen precursor and non-ionic dispersant. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 307-314.	5.8	10

#	ARTICLE	IF	CITATIONS
19	Facile synthesis of mesoporous carbon material from treated kitchen waste for energy applications. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	3.6	9
20	Novel insights into the dispersed and acid-mediated surface modification of the carbon nanofibers. <i>Materials Chemistry and Physics</i> , 2020, 239, 121978.	4.0	9
21	Detection of gold nanoparticles signal inside wheat (<i>Triticum Aestivum.L</i>) and oats (<i>Avena sativa</i>) seedlings. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
22	Synthesis and characterization of graphene oxide-bovine serum albumin conjugate membrane for adsorptive removal of Cobalt(II) from water. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 3915-3928.	3.5	7
23	Correlating mechanical properties of polyurethane-organoclay nanocomposite coatings with processing. <i>Progress in Organic Coatings</i> , 2022, 169, 106895.	3.9	7
24	Role of shell type of core/shell nanoparticles in luminescence properties of PVKâ€“CdS/X nanocomposite films. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	6
25	Scale Minimization in Sugar Industry Evaporators using Nanoporous Industrial Bio-solid Waste Bagasse Fly Ash. <i>Sugar Tech</i> , 2019, 21, 301-311.	1.8	6
26	Encapsulation of carbon nanofiber inside liposome for target drug delivery. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	5
27	Carbon nanofibers suppress fungal inhibition of seed germination of maize (<i>Zea mays</i>) and barley (<i>Hordeum vulgare L.</i>) crop. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	4
28	Synthesis of conductive polyaniline-carbon nanofiber nanocomposite with chenille like morphology for photocatalytic coatings applications. <i>Progress in Organic Coatings</i> , 2021, 151, 106102.	3.9	4
29	Developing and Characterizing Polyurethane-Nanoclay Coatings for Better Scratch & Mar Resistance. <i>Advanced Materials Research</i> , 0, 585, 473-477.	0.3	3
30	Surfactant assisted liquid phase exfoliation of graphene via probe tip sonication. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	3
31	Effect of nanocrystals concentration on optical and luminescent properties of PVK:ZnSe nanocomposites. <i>Materials Science-Poland</i> , 2018, 36, 494-500.	1.0	3
32	â€œRomanesco broccoliâ€“like palladium nano-fractals for superior methanol electro-oxidation. <i>Journal of Materials Science</i> , 2020, 55, 125-139.	3.7	2
33	Interaction of Nano-Sized Materials With Polymer Chains in Polymer-Nanocomposite Thin Films-An AFM Perspective. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	1
34	Study of photo-catalytic degradation of MB dye a water pollutant from sonochemically synthesized CdSe:Zn nanoparticles. , 2019, , .		0