

# Debabrata Nandi

## List of Publications by Year in descending order

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34  
papers

633  
citations

567281

15  
h-index

580821

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

698  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of a biowaste of fish ( <i>Labeo rohita</i> ) scale for the removal of methyl orange from aqueous solutions: optimization of sorption conditions by response surface method and analysis of adsorption mechanism. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3523-3534.	4.6	2
2	Polymer composites from natural fibers and recycled waste surgical masks during COVID-19 pandemic. <i>Polymer Composites</i> , 2022, 43, 3944-3950.	4.6	14
3	Recent innovations in bionanocomposites-based food packaging films – A comprehensive review. <i>Food Packaging and Shelf Life</i> , 2022, 33, 100877.	7.5	36
4	Synthesis of three-dimensional graphene architectures from chicken feather and its unusual dimensional crossover in electronic conductivity. <i>Nano Structures Nano Objects</i> , 2021, 25, 100665.	3.5	4
5	Predicting &Tachypleus gigas& Spawning Distribution with Climate Change in Northeast Coast of India. <i>Journal of Ecological Engineering</i> , 2021, 22, 211-220.	1.1	3
6	Hydro-Geochemical Attributes Based Classifiers for Groundwater Analysis. <i>Ecological Engineering and Environmental Technology</i> , 2021, 22, 28-39.	0.7	2
7	A comprehensive review on cellulose, chitin, and starch as fillers in natural rubber biocomposites. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100095.	2.6	28
8	Arsenic removal from water by graphene nanoplatelets prepared from nail waste: A physicochemical study of adsorption based on process optimization, kinetics, isotherm and thermodynamics. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100564.	2.9	6
9	Comparative approach of decision tree and CWQI analysis for classification of groundwater with a special reference to fluoride ion in drought-prone Boudh district of Odisha, India. <i>Sustainable Water Resources Management</i> , 2021, 7, 1.	2.1	2
10	Mechanistic insight into high response of carbon monoxide gas sensor developed by nickel manganate nanorod decorated reduced graphene oxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124449.	4.7	9
11	Metal/metal oxide decorated graphene synthesis and application as supercapacitor: a review. <i>Journal of Materials Science</i> , 2020, 55, 6375-6400.	3.7	111
12	The unique microsphere of ruthenium manganate: Synthesis, structure elucidation, morphology analyses and magnetic property. <i>Materials Chemistry and Physics</i> , 2020, 246, 122845.	4.0	2
13	Redox-Assisted Arsenic(III) Adsorption for Removal from Aqueous Solution by Cerium(IV)-Incorporated Zirconium Oxide Nanocomposites. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 885-895.	1.9	12
14	Unique nanopetals of nickel vanadate: crystal structure elucidation and supercapacitive performance. <i>New Journal of Chemistry</i> , 2017, 41, 5620-5627.	2.8	13
15	Hydrogeomorphological Study in Bamanghaty Subdivision of Mayurbhanj District, Odisha an Integrated Remote Sensing and GIS Approach. <i>International Journal of Geosciences</i> , 2017, 08, 1361-1373.	0.6	3
16	Monitoring Vegetation and Land Surface Temperature Dynamics in Similipal Biosphere Reserve, Odisha. <i>International Journal of Geosciences</i> , 2017, 08, 1344-1360.	0.6	2
17	Tuned synthesis and characterizational insight into $\beta$ -cyclodextrin amended hydrous iron-zirconium hybrid oxide: a promising scavenger of fluoride in aqueous solution. <i>RSC Advances</i> , 2016, 6, 93842-93854.	3.6	6
18	Microwatershed Management Using Remote Sensing and GIS. <i>Advanced Science Letters</i> , 2016, 22, 305-310.	0.2	0

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19	Development of a reduced-graphene-oxide based superparamagnetic nanocomposite for the removal of nickel (II) from an aqueous medium via a fluorescence sensor platform. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 69-79.	9.4	11
20	Excitation wavelength dependent UV fluorescence of dispersed modified graphene oxide: Effect of pH. <i>Journal of Luminescence</i> , 2015, 168, 269-275.	3.1	19
21	Synthesis, nanostructure evaluation and tunable anomalous 3D hopping transport of manganese ferrite encapsulated poly[3,4-(ethylenedioxy)thiophene] decorated graphene layer. <i>RSC Advances</i> , 2015, 5, 36149-36155.	3.6	6
22	β-Cyclodextrin modified hydrous zirconium oxide: Synthesis, characterization and defluoridation performance from aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 263, 220-230.	12.7	32
23	Fabrication, nanostructure evaluation, 3D electrical transport and electrochemical capacitance of PEDOT-Ti(IV)-doped iron(III) oxide nanocomposite. <i>Journal of Materials Science</i> , 2014, 49, 776-785.	3.7	15
24	Polypyrrole decorated graphene nanostructure: Fabrication, depiction and anomalous dimensional crossover in electronic conduction. <i>Applied Surface Science</i> , 2014, 293, 90-96.	6.1	16
25	Thermally stable polypyrrole-Mn doped Fe(III) oxide nanocomposite sandwiched in graphene layer: Synthesis, characterization with tunable electrical conductivity. <i>Chemical Engineering Journal</i> , 2013, 220, 107-116.	12.7	22
26	Equilibrium modeling of As(III,V) sorption in the absence/presence of some groundwater occurring ions by iron(III)-cerium(IV) oxide nanoparticle agglomerates: A mechanistic approach of surface interaction. <i>Chemical Engineering Journal</i> , 2013, 228, 665-678.	12.7	37
27	Mechanistic Insight for the Sorption of Cd(II) and Cu(II) from Aqueous Solution on Magnetic Mn-Doped Fe(III) Oxide Nanoparticle Implanted Graphene. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 2809-2818.	1.9	36
28	Manganese-incorporated iron(III) oxide-graphene magnetic nanocomposite: synthesis, characterization, and application for the arsenic(III)-sorption from aqueous solution. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	36
29	Manganese-incorporated iron(III) oxide-graphene magnetic nanocomposite: synthesis, characterization, and application for the arsenic(III)-sorption from aqueous solution. , 2012, , 149-162.		4
30	Arsenic(III) sorption on nanostructured cerium incorporated manganese oxide (NCMO): A physical insight into the mechanistic pathway. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 269-276.	9.4	38
31	Polypyrrole-titanium(IV) doped iron(III) oxide nanocomposites: Synthesis, characterization with tunable electrical and electrochemical properties. <i>Materials Research Bulletin</i> , 2012, 47, 2095-2103.	5.2	27
32	Adsorption-Desorption Behavior of Cadmium(II) and Copper(II) on the Surface of Nanoparticle Agglomerates of Hydrous Titanium(IV) Oxide. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 3021-3028.	1.9	17
33	Synthesis Characterization and Viscosity Studies of Homopolymer of Methyl Methacrylate and Copolymer of Methyl Methacrylate and Styrene. <i>Journal of Solution Chemistry</i> , 2011, 40, 67-78.	1.2	34
34	Synthesis and Characterization of Biodegradable Polymer Used as a Pour Point Depressant for Lubricating Oil. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2010, 59, 1008-1017.	3.4	28