

Nirupam Aich

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,282
citations

331259

21
h-index

360668

35
g-index

52
all docs

52
docs citations

52
times ranked

1843
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of the emerging research on the detection and assessment of microplastics pollution in the coastal, marine, and urban Bangladesh. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	12
2	3D Printed Materials in Water Treatment Applications. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	18
3	Long-Term Exposure and Effects of rGO-nZVI Nanohybrids and Their Parent Nanomaterials on Wastewater-Nitrifying Microbial Communities. <i>Environmental Science & Technology</i> , 2022, 56, 512-524.	4.6	9
4	Ecological Burden of e-Waste in Bangladesh—An Assessment to Measure the Exposure to e-Waste and Associated Health Outcomes: Protocol for a Cross-sectional Study. <i>JMIR Research Protocols</i> , 2022, 11, e38201.	0.5	2
5	Redox-active rGO-nZVI nanohybrid-catalyzed chain shortening of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100007.	2.0	9
6	Deep eutectic solvent functionalized graphene oxide nanofiltration membranes with superior water permeance and dye desalination performance. <i>Chemical Engineering Journal</i> , 2021, 412, 128577.	6.6	48
7	Emerging investigator series: 3D printed graphene-biopolymer aerogels for water contaminant removal: a proof of concept. <i>Environmental Science: Nano</i> , 2021, 8, 399-414.	2.2	22
8	Assessment of heavy metal contamination and health risk from indoor dust and air of informal E-waste recycling shops in Dhaka, Bangladesh. <i>Journal of Hazardous Materials Advances</i> , 2021, 4, 100025.	1.2	10
9	Health consequences of exposure to e-waste: an updated systematic review. <i>Lancet Planetary Health</i> , The, 2021, 5, e905-e920.	5.1	50
10	Advances in Smart Nanomaterials: Environmental Perspective. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-2.	1.5	3
11	Quantification and characterization of nanometer-sized particles released from dental composite products using a multimodal approach. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	1
12	Measuring exposure of e-waste dismantlers in Dhaka Bangladesh to organophosphate esters and halogenated flame retardants using silicone wristbands and T-shirts. <i>Science of the Total Environment</i> , 2020, 720, 137480.	3.9	34
13	Application of deep eutectic solvent for conjugation of magnetic nanoparticles onto graphene oxide for lead(II) and methylene blue removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104222.	3.3	31
14	Adsorption and advanced oxidation of diverse pharmaceuticals and personal care products (PPCPs) from water using highly efficient rGO-nZVI nanohybrids. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2223-2238.	1.2	22
15	Factorial design of experiments for optimization of photocatalytic degradation of tartrazine by zinc oxide (ZnO) nanorods with different aspect ratios. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104235.	3.3	26
16	Probing Heterogeneity in Bovine Enamel Composition through Nanoscale Chemical Imaging using Atom Probe Tomography. <i>Archives of Oral Biology</i> , 2020, 112, 104682.	0.8	4
17	Stormwater green infrastructures retain high concentrations of TiO ₂ engineered (nano)-particles. <i>Journal of Hazardous Materials</i> , 2020, 392, 122335.	6.5	26
18	Detection and quantification of engineered particles in urban runoff. <i>Chemosphere</i> , 2020, 248, 126070.	4.2	42

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19	Nano-enhanced Dialytic Fluid Purification: CFD Modeling of Pb(II) Removal by Manganese Oxide. ACS Omega, 2020, 5, 32697-32705.	1.6	0
20	Modeling the transport of titanium dioxide nanomaterials from combined sewer overflows in an urban river. Science of the Total Environment, 2019, 696, 133904.	3.9	17
21	Magnetic graphene oxide-nano zero valent iron (GO-nZVI) nanohybrids synthesized using biocompatible cross-linkers for methylene blue removal. RSC Advances, 2019, 9, 963-973.	1.7	36
22	Phenol and Cr(VI) removal using materials derived from harmful algal bloom biomass: Characterization and performance assessment for a biosorbent, a porous carbon, and Fe/C composites. Journal of Hazardous Materials, 2019, 368, 477-486.	6.5	40
23	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. Environmental Science & Technology, 2019, 53, 7265-7287.	4.6	109
24	Aggregation Behavior of Inorganic 2D Nanomaterials Beyond Graphene: Insights from Molecular Modeling and Modified DLVO Theory. Environmental Science & Technology, 2019, 53, 4161-4172.	4.6	51
25	Kinetic and thermodynamic study of methylene blue adsorption onto chitosan: insights about metachromasy occurrence on wastewater remediation. Energy, Ecology and Environment, 2019, 4, 85-102.	1.9	11
26	Shape matters: Cr(VI) removal using iron nanoparticle impregnated 1-D vs 2-D carbon nanohybrids prepared by ultrasonic spray pyrolysis. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	13
27	Modeling the Transport of the "New-Horizon-Reduced Graphene Oxide" Metal Oxide Nanohybrids in Water-Saturated Porous Media. Environmental Science & Technology, 2018, 52, 4610-4622.	4.6	19
28	In Vitro Pulmonary Toxicity of Reduced Graphene Oxide-Nano Zero Valent Iron Nanohybrids and Comparison with Parent Nanomaterial Attributes. ACS Sustainable Chemistry and Engineering, 2018, 6, 12797-12806.	3.2	16
29	Application of Nanozerovalent Iron for Water Treatment and Soil Remediation: Emerging Nanohybrid Approach and Environmental Implications. , 2018, , 65-87.		2
30	Carboxymethylcellulose Mediates the Transport of Carbon Nanotube-Magnetite Nanohybrid Aggregates in Water-Saturated Porous Media. Environmental Science & Technology, 2017, 51, 12405-12415.	4.6	30
31	Dental erosion potential of beverages and bottled drinking water in Bangladesh. International Journal of Food Properties, 2017, 20, 2499-2510.	1.3	9
32	Dimensional Variations in Nanohybrids: Property Alterations, Applications, and Considerations for Toxicological Implications. Nanostructure Science and Technology, 2017, , 271-291.	0.1	4
33	Importance of doping, dopant distribution, and defects on electronic band structure alteration of metal oxide nanoparticles: Implications for reactive oxygen species. Science of the Total Environment, 2016, 568, 926-932.	3.9	56
34	Aggregation Kinetics of Higher-Order Fullerene Clusters in Aquatic Systems. Environmental Science & Technology, 2016, 50, 3562-3571.	4.6	40
35	Change in chirality of semiconducting single-walled carbon nanotubes can overcome anionic surfactant stabilisation: a systematic study of aggregation kinetics. Environmental Chemistry, 2015, 12, 652.	0.7	13
36	Mechanistic lessons learned from studies of planktonic bacteria with metallic nanomaterials: implications for interactions between nanomaterials and biofilm bacteria. Frontiers in Microbiology, 2015, 6, 677.	1.5	35

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37	Research strategy to determine when novel nanohybrids pose unique environmental risks. <i>Environmental Science: Nano</i> , 2015, 2, 11-18.	2.2	43
38	Detection of crack formation and stress distribution for carbon fiber reinforced polymer specimens through triboluminescent-based imaging. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 913-920.	1.4	3
39	Emergent Properties and Toxicological Considerations for Nanohybrid Materials in Aquatic Systems. <i>Nanomaterials</i> , 2014, 4, 372-407.	1.9	44
40	A critical review of nanohybrids: synthesis, applications and environmental implications. <i>Environmental Chemistry</i> , 2014, 11, 609.	0.7	71
41	Effects of Chloride and Ionic Strength on Physical Morphology, Dissolution, and Bacterial Toxicity of Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2014, 48, 761-769.	4.6	168
42	Environmental Interactions of Geo- and Bio-Macromolecules with Nanomaterials. , 2014, , 257-290.		0
43	Fractal structures of single-walled carbon nanotubes in biologically relevant conditions: Role of chirality vs. media conditions. <i>Chemosphere</i> , 2013, 93, 1997-2003.	4.2	22
44	Preparation of non-aggregating aqueous fullerenes in highly saline solutions with a biocompatible non-ionic polymer. <i>Nanotechnology</i> , 2013, 24, 395602.	1.3	15
45	Triboluminescence for distributed damage assessment in cement-based materials. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1714-1721.	1.4	21
46	Preparation and characterization of stable aqueous higher-order fullerenes. <i>Nanotechnology</i> , 2012, 23, 055705.	1.3	21