Nirupam Aich

List of Publications by Year
in descending order

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46 papers	1,282 citations	331670 21 h-index	361022 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. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	6.0	12
2	3D Printed Materials in Water Treatment Applications. Advanced Sustainable Systems, 2022, 6, .	5.3	18
3	Long-Term Exposure and Effects of rGOâ€“nZVI Nanohybrids and Their Parent Nanomaterials on Wastewater-Nitrifying Microbial Communities. Environmental Science & Technology, 2022, 56, 512-524.	10.0	9
4	Ecological Burden of e-Waste in Bangladeshâ€”an Assessment to Measure the Exposure to e-Waste and Associated Health Outcomes: Protocol for a Cross-sectional Study. JMIR Research Protocols, 2022, 11, e38201.	1.0	2
5	Redox-active rGO-nZVI nanohybrid-catalyzed chain shortening of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). Journal of Hazardous Materials Letters, 2021, 2, 100007.	3.6	9
6	Deep eutectic solvent functionalized graphene oxide nanofiltration membranes with superior water permeance and dye desalination performance. Chemical Engineering Journal, 2021, 412, 128577.	12.7	48
7	Emerging investigator series: 3D printed graphene-biopolymer aerogels for water contaminant removal: a proof of concept. Environmental Science: Nano, 2021, 8, 399-414.	4.3	22
8	Assessment of heavy metal contamination and health risk from indoor dust and air of informal E-waste recycling shops in Dhaka, Bangladesh. Journal of Hazardous Materials Advances, 2021, 4, 100025.	3.0	10
9	Health consequences of exposure to e-waste: an updated systematic review. Lancet Planetary Health, The, 2021, 5, e905-e920.	11.4	50
10	Advances in Smart Nanomaterials: Environmental Perspective. Journal of Nanomaterials, 2020, 2020, 1-2.	2.7	3
11	Quantification and characterization of nanometer-sized particles released from dental composite products using a multimodal approach. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	1
12	Measuring exposure of e-waste dismantlers in Dhaka Bangladesh to organophosphate esters and halogenated flame retardants using silicone wristbands and T-shirts. Science of the Total Environment, 2020, 720, 137480.	8.0	34
13	Application of deep eutectic solvent for conjugation of magnetic nanoparticles onto graphene oxide for lead(II) and methylene blue removal. Journal of Environmental Chemical Engineering, 2020, 8, 104222.	6.7	31
14	Adsorption and advanced oxidation of diverse pharmaceuticals and personal care products (PPCPs) from water using highly efficient rGOâ€“nZVI nanohybrids. Environmental Science: Water Research and Technology, 2020, 6, 2223-2238.	2.4	22
15	Factorial design of experiments for optimization of photocatalytic degradation of tartrazine by zinc oxide (ZnO) nanorods with different aspect ratios. Journal of Environmental Chemical Engineering, 2020, 8, 104235.	6.7	26
16	Probing Heterogeneity in Bovine Enamel Composition through Nanoscale Chemical Imaging using Atom Probe Tomography. Archives of Oral Biology, 2020, 112, 104682.	1.8	4
17	Stormwater green infrastructures retain high concentrations of TiO2 engineered (nano)-particles. Journal of Hazardous Materials, 2020, 392, 122335.	12.4	26
18	Detection and quantification of engineered particles in urban runoff. Chemosphere, 2020, 248, 126070.	8.2	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.	3.5	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.	8.0	17
21	Magnetic graphene oxide-nano zero valent iron (GOâ€“nZVI) nanohybrids synthesized using biocompatible cross-linkers for methylene blue removal. RSC Advances, 2019, 9, 963-973.	3.6	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.	12.4	40
23	Next-Generation Multifunctional Carbonâ€“Metal Nanohybrids for Energy and Environmental Applications. Environmental Science & Technology, 2019, 53, 7265-7287.	10.0	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.	10.0	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.	3.9	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.	1.9	13
27	Modeling the Transport of the â€œNew-Horizonâ€•Reduced Graphene Oxideâ€”Metal Oxide Nanohybrids in Water-Saturated Porous Media. Environmental Science & Technology, 2018, 52, 4610-4622.	10.0	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.	6.7	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 Nanotubeâ€”Magnetite Nanohybrid Aggregates in Water-Saturated Porous Media. Environmental Science & Technology, 2017, 51, 12405-12415.	10.0	30
31	Dental erosion potential of beverages and bottled drinking water in Bangladesh. International Journal of Food Properties, 2017, 20, 2499-2510.	3.0	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.	8.0	56
34	Aggregation Kinetics of Higher-Order Fullerene Clusters in Aquatic Systems. Environmental Science & Technology, 2016, 50, 3562-3571.	10.0	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.	1.5	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.	3.5	35

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37	Research strategy to determine when novel nanohybrids pose unique environmental risks. Environmental Science: Nano, 2015, 2, 11-18.	4.3	43
38	Detection of crack formation and stress distribution for carbon fiberâ€“reinforced polymer specimens through triboluminescent-based imaging. Journal of Intelligent Material Systems and Structures, 2015, 26, 913-920.	2.5	3
39	Emergent Properties and Toxicological Considerations for Nanohybrid Materials in Aquatic Systems. Nanomaterials, 2014, 4, 372-407.	4.1	44
40	A critical review of nanohybrids: synthesis, applications and environmental implications. Environmental Chemistry, 2014, 11, 609.	1.5	71
41	Effects of Chloride and Ionic Strength on Physical Morphology, Dissolution, and Bacterial Toxicity of Silver Nanoparticles. Environmental Science & Technology, 2014, 48, 761-769.	10.0	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. Chemosphere, 2013, 93, 1997-2003.	8.2	22
44	Preparation of non-aggregating aqueous fullerenes in highly saline solutions with a biocompatible non-ionic polymer. Nanotechnology, 2013, 24, 395602.	2.6	15
45	Triboluminescence for distributed damage assessment in cement-based materials. Journal of Intelligent Material Systems and Structures, 2013, 24, 1714-1721.	2.5	21
46	Preparation and characterization of stable aqueous higher-order fullerenes. Nanotechnology, 2012, 23, 055705.	2.6	21