Gopala Krishna Darbha

List of Publications by Year
in descending order

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56 papers	2,540 citations	279487 23 h-index	189595 50 g-index
57 all docs	57 docs citations	57 times ranked	2986 citing authors

#	Article	IF	Citations
1	Effect of clay colloid â€“ CuO nanoparticles interaction on retention of nanoparticles in different types of soils: role of clay fraction and environmental parameters. Environmental Research, 2022, 203, 111885.	3.7	4
2	Nanoplastics interaction with feldspar and weathering originated secondary minerals (kaolinite and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	10
3	Influence of natural soil colloidâ€™s stability on transport of copper-based nanoparticles in saturated porous media. Environmental Nanotechnology, Monitoring and Management, 2022, 17, 100633.	1.7	0
4	The groundwater arsenic contamination in the Bengal Basin-A review in brief. Chemosphere, 2022, 299, 134369.	4.2	33
5	Nano Geochemistry. Nanomaterials, 2022, 12, 1039.	1.9	0
6	Continuous Filtration of Multimetal-Contaminated River Water and Groundwater Using Antioxidants Preserved Redox-Sensitive Nanocomposites: Ultrahigh Reactivity and Self-Sedimentation Possibility. ACS ES&T Water, 2022, 2, 1073-1086.	2.3	1
7	Impact of long-term storage of various redox-sensitive supported nanocomposites on their application in removal of dyes from wastewater: Mechanisms delineation through spectroscopic investigations. Journal of Hazardous Materials, 2021, 401, 123375.	6.5	20
8	Interaction of metal oxide nanoparticles with microplastics: Impact of weathering under riverine conditions. Water Research, 2021, 189, 116622.	5.3	41
9	Metal oxide nanoparticles and polycyclic aromatic hydrocarbons alter nanoplasticâ€™s stability and toxicity to zebrafish. Journal of Hazardous Materials, 2021, 407, 124382.	6.5	36
10	Combined antioxidant capped and surface supported redox-sensitive nanoparticles for continuous elimination of multi-metallic species. Chemical Communications, 2021, 57, 7280-7283.	2.2	5
11	Particle number-based trophic transfer of gold nanomaterials in an aquatic food chain. Nature Communications, 2021, 12, 899.	5.8	38
12	Characteristics and spatial distribution of microplastics in the lower Ganga River water and sediment. Marine Pollution Bulletin, 2021, 163, 111960.	2.3	74
13	Heterogeneously Porous Multiadsorbent Clayâ€“Biochar Surface to Support Redox-Sensitive Nanoparticles: Applications of Novel Clayâ€“Biocharâ€“Nanoscale Zerovalent Iron Nanotrident (C-BC-nZVI) in Continuous Water Filtration. ACS ES&T Water, 2021, 1, 641-652.	2.3	11
14	Removal of chromate ions from leachate-contaminated groundwater samples of Khan Chandpur, India, using chitin modified iron-enriched hydroxyapatite nanocomposite. Environmental Science and Pollution Research, 2021, 28, 41760-41771.	2.7	7
15	Study of the photocatalytic activity of Mn-doped ZnO nanocomposites depending on their morphology and structure with the variation of manganese concentration. Surfaces and Interfaces, 2021, 23, 100902.	1.5	7
16	The stochastic association of nanoparticles with algae at the cellular level: Effects of NOM, particle size and particle shape. Ecotoxicology and Environmental Safety, 2021, 218, 112280.	2.9	7
17	Eco-friendly magnetic biochar: An effective trap for nanoplastics of varying surface functionality and size in the aqueous environment. Chemical Engineering Journal, 2021, 418, 129405.	6.6	71
18	A decade of exploring MXenes as aquatic cleaners: Covering a broad range of contaminants, current challenges and future trends. Chemosphere, 2021, 279, 130587.	4.2	25

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19	Biochar-facilitated remediation of nanoplastic contaminated water: Effect of pyrolysis temperature induced surface modifications. Journal of Hazardous Materials, 2021, 417, 126096.	6.5	71
20	Effect of the irrigation water type and other environmental parameters on CeO₂ nanopesticideâ€“clay colloid interactions. Environmental Sciences: Processes and Impacts, 2020, 22, 84-94.	1.7	18
21	Spectroscopic behavior of ZnS nanostructured materials. Chinese Journal of Physics, 2020, 63, 13-20.	2.0	3
22	Removal and recovery of toxic nanosized Cerium Oxide using eco-friendly Iron Oxide Nanoparticles. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	3.3	9
23	Sonochemical synthesis of nanospherical TiO2 within graphene oxide nanosheets and its application as a photocatalyst and a Schottky diode. FlatChem, 2020, 22, 100180.	2.8	14
24	Metal sorption onto nanoscale plastic debris and trojan horse effects in Daphnia magna: Role of dissolved organic matter. Water Research, 2020, 186, 116410.	5.3	42
25	Interaction between a nano-formulation of atrazine and rhizosphere bacterial communities: atrazine degradation and bacterial community alterations. Environmental Science: Nano, 2020, 7, 3372-3384.	2.2	18
26	Interaction of Polyoxometalates and Nanoparticles with Collector Surfacesâ€”Focus on the Use of Streaming Current Measurements at Flat Surfaces. Colloids and Interfaces, 2020, 4, 39.	0.9	1
27	Biocharâ€“nZVI nanocomposite: optimization of grain size and Fe0 loading, application and removal mechanism of anionic metal species from soft water, hard water and groundwater. Clean Technologies and Environmental Policy, 2020, 22, 1015-1024.	2.1	19
28	Crystal structure dependent photocatalytic degradation of manganese and titanium oxides composites. SN Applied Sciences, 2020, 2, 1.	1.5	5
29	Engineered nanoselenium supplemented fish diet: toxicity comparison with ionic selenium and stability against particle dissolution, aggregation and release. Environmental Science: Nano, 2020, 7, 2325-2336.	2.2	12
30	Modelling the photocatalytic behaviour of p-n nickel-titanium oxide nanocomposite. Chemical Engineering Research and Design, 2020, 161, 82-94.	2.7	3
31	Strain influence on the structural properties of nitrogen and fluorine codoped TiO2. Optik, 2020, 206, 164029.	1.4	4
32	Application of Zn/Al layered double hydroxides for the removal of nano-scale plastic debris from aqueous systems. Journal of Hazardous Materials, 2020, 397, 122769.	6.5	81
33	Understanding the stability of nanoplastics in aqueous environments: effect of ionic strength, temperature, dissolved organic matter, clay, and heavy metals. Environmental Science: Nano, 2019, 6, 2968-2976.	2.2	126
34	The carrier transport properties and photodegradation ability of low temperature synthesized phase pure rutile titanium oxide nanostructured materials. Materials Chemistry and Physics, 2019, 226, 362-370.	2.0	7
35	Novel synthesis of a clay supported amorphous aluminum nanocomposite and its application in removal of hexavalent chromium from aqueous solutions. RSC Advances, 2019, 9, 11160-11169.	1.7	22
36	A Dose Metrics Perspective on the Association of Gold Nanomaterials with Algal Cells. Environmental Science and Technology Letters, 2019, 6, 732-738.	3.9	15

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37	The surface chemistry of sapphire-c: A literature review and a study on various factors influencing its IEP. Advances in Colloid and Interface Science, 2018, 251, 1-25.	7.0	25
38	New Features and Uncovered Benefits of Polycrystalline Magnetite as Reusable Catalyst in Reductive Chemical Conversion. Journal of Physical Chemistry C, 2017, 121, 25195-25205.	1.5	15
39	Impact of gravity, collector surface roughness and fracture orientation on colloid retention kinetics in an artificial fracture. Journal of Colloid and Interface Science, 2016, 475, 171-183.	5.0	13
40	Influence of mineralogical and morphological properties on the cation exchange behavior of dioctahedral smectites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 481, 591-599.	2.3	28
41	Experimental approaches to the formation of early-diagenetic grain coats on quartz surfaces. Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2013, 164, 225-236.	0.1	2
42	Deposition of mineral colloids on rough rock surfaces. Numerische Mathematik, 2012, 312, 885-906.	0.7	12
43	Site-Specific Retention of Colloids at Rough Rock Surfaces. Environmental Science & Technology, 2012, 46, 9378-9387.	4.6	38
44	Deposition of Latex Colloids at Rough Mineral Surfaces: An Analogue Study Using Nanopatterned Surfaces. Langmuir, 2012, 28, 6606-6617.	1.6	40
45	Retention of Latex Colloids on Calcite as a Function of Surface Roughness and Topography. Langmuir, 2010, 26, 4743-4752.	1.6	48
46	Gold Nanoparticle Based Surface Energy Transfer Probe for Accurate Identification of Biological Agents DNA. ACS Symposium Series, 2009, , 115-129.	0.5	2
47	Goldâ€Nanorodâ€Based Sensing of Sequence Specific HIVâ€1 Virus DNA by Using Hyperâ€Rayleigh Scattering Spectroscopy. Chemistry - A European Journal, 2008, 14, 3896-3903.	1.7	109
48	Selective Detection of Mercury (II) Ion Using Nonlinear Optical Properties of Gold Nanoparticles. Journal of the American Chemical Society, 2008, 130, 8038-8043.	6.6	419
49	Miniaturized Sensor for Microbial Pathogens DNA and Chemical Toxins. IEEE Sensors Journal, 2008, 8, 693-700.	2.4	21
50	A gold-nanoparticle-based fluorescence resonance energy transfer probe for multiplexed hybridization detection: accurate identification of bio-agents DNA. Nanotechnology, 2007, 18, 375504.	1.3	48
51	Gold Nanoparticle-Based Miniaturized Nanomaterial Surface Energy Transfer Probe for Rapid and Ultrasensitive Detection of Mercury in Soil, Water, and Fish. ACS Nano, 2007, 1, 208-214.	7.3	284
52	Near infrared photo-induced DNA damage in the presence of copper-dppz complex: Evidence for the involvement of singlet oxygen. Chemical Physics Letters, 2007, 434, 127-132.	1.2	7
53	Non-resonance SERS effects of silver colloids with different shapes. Chemical Physics Letters, 2007, 446, 77-82.	1.2	180
54	Gold Nanoparticle Based FRET for DNA Detection. Plasmonics, 2007, 2, 173-183.	1.8	144

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55	Gold-nanoparticle-based miniaturized laser-induced fluorescence probe for specific DNA hybridization detection: studies on size-dependent optical properties. Nanotechnology, 2006, 17, 3085-3093.	1.3	79
56	Gold Nanoparticle Based FRET Asssay for the Detection of DNA Cleavage. Journal of Physical Chemistry B, 2006, 110, 20745-20748.	1.2	164