

Hirakendu Basu

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,896
citations

218381

26
h-index

276539

41
g-index

43
all docs

43
docs citations

43
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step hydrothermal approach to fabricate carbon dots from apple juice for imaging of mycobacterium and fungal cells. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 434-443.	4.0	394
2	Recent progress on surface chemistry of plasmonic metal nanoparticles for colorimetric assay of drugs in pharmaceutical and biological samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 106-120.	5.8	152
3	One-step synthesis of fluorescent carbon dots for imaging bacterial and fungal cells. <i>Analytical Methods</i> , 2015, 7, 2373-2378.	1.3	113
4	Ultra-small two dimensional MXene nanosheets for selective and sensitive fluorescence detection of Ag ⁺ and Mn ²⁺ ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 70-77.	2.3	75
5	Influence of molecular assembly and NaCl concentration on gold nanoparticles for colorimetric detection of cysteine and glutathione. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 526-535.	4.0	65
6	Acid Oxidation of Muskmelon Fruit for the Fabrication of Carbon Dots with Specific Emission Colors for Recognition of Hg ²⁺ Ions and Cell Imaging. <i>ACS Omega</i> , 2019, 4, 19332-19340.	1.6	64
7	Simple and sensitive colorimetric sensing of Cd ²⁺ ion using chitosan dithiocarbamate functionalized gold nanoparticles as a probe. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 850-858.	4.0	63
8	Recent developments on fluorescent hybrid nanomaterials for metal ions sensing and bioimaging applications: A review. <i>Journal of Molecular Liquids</i> , 2021, 333, 115950.	2.3	60
9	Microwave-assisted synthesis of water-soluble Eu ³⁺ hybrid carbon dots with enhanced fluorescence for the sensing of Hg ²⁺ ions and imaging of fungal cells. <i>New Journal of Chemistry</i> , 2018, 42, 6125-6133.	1.4	51
10	An overview of molecular biology and nanotechnology based analytical methods for the detection of SARS-CoV-2: promising biotools for the rapid diagnosis of COVID-19. <i>Analyst</i> , 2021, 146, 1489-1513.	1.7	42
11	Development of p-nitroaniline dithiocarbamate capped gold nanoparticles-based microvolume UV-vis spectrometric method for facile and selective detection of quinalphos insecticide in environmental samples. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 826-835.	4.0	41
12	Graphene oxide encapsulated in alginate beads for enhanced sorption of uranium from different aquatic environments. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1625-1633.	3.3	41
13	One pot synthesis of fluorescent gold nanoclusters from Curcuma longa extract for independent detection of Cd ²⁺ , Zn ²⁺ and Cu ²⁺ ions with high sensitivity. <i>Journal of Molecular Liquids</i> , 2020, 304, 112697.	2.3	41
14	Mg ²⁺ ion as a tuner for colorimetric sensing of glyphosate with improved sensitivity via the aggregation of 2-mercapto-5-nitrobenzimidazole capped silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 47741-47752.	1.7	40
15	Tuning of gold nanoclusters sensing applications with bovine serum albumin and bromelain for detection of Hg ²⁺ ion and lambda-cyhalothrin via fluorescence turn-off and on mechanisms. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2781-2791.	1.9	40
16	Influence of doping ion, capping agent and pH on the fluorescence properties of zinc sulfide quantum dots: Sensing of Cu ²⁺ and Hg ²⁺ ions and their biocompatibility with cancer and fungal cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 210, 212-221.	2.0	38
17	Ligand chemistry of gold, silver and copper nanoparticles for visual read-out assay of pesticides: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 153, 116607.	5.8	36
18	Humic acid coated cellulose derived from rice husk: A novel biosorbent for the removal of Ni and Cr. <i>Journal of Water Process Engineering</i> , 2019, 32, 100892.	2.6	34

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19	Investigation of silicon doping into carbon dots for improved fluorescence properties for selective detection of Fe ³⁺ ion. <i>Optical Materials</i> , 2019, 96, 109374.	1.7	34
20	Seasonal occurrence and risk assessment of pharmaceutical and personal care products in Bengaluru rivers and lakes, India. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105610.	3.3	34
21	Fluorescence enhancement of bovine serum albumin gold nanoclusters from La ³⁺ ion: Detection of four divalent metal ions (Hg ²⁺ , Cu ²⁺ , Pb ²⁺ and Cd ²⁺). <i>Journal of Molecular Liquids</i> , 2021, 336, 116239.	2.3	33
22	Graphene oxide-MnO ₂ -goethite microsphere impregnated alginate: A novel hybrid nanosorbent for As (III) and As (V) removal from groundwater. <i>Journal of Water Process Engineering</i> , 2021, 42, 102129.	2.6	32
23	Graphene-prussian blue nanocomposite impregnated in alginate for efficient removal of cesium from aquatic environment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4399-4407.	3.3	31
24	Progress on boron nitride nanostructure materials: properties, synthesis and applications in hydrogen storage and analytical chemistry. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 1-41.	5.3	31
25	Nano-hydroxyapatite coated activated carbon impregnated alginate: A new hybrid sorbent for uranium removal from potable water. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103999.	3.3	29
26	Chicken egg white and L-cysteine as cooperative ligands for effective encapsulation of Zn-doped silver nanoclusters for sensing and imaging applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 35-42.	2.3	27
27	Chemical characterization of sub-micron particles in indoor and outdoor air at two different microenvironments in the western part of India. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	26
28	Simultaneous colorimetric detection of four drugs in their pharmaceutical formulations using unmodified gold nanoparticles as a probe. <i>RSC Advances</i> , 2015, 5, 19924-19932.	1.7	24
29	Highly efficient removal of TiO ₂ nanoparticles from aquatic bodies by silica microsphere impregnated Ca-alginate. <i>New Journal of Chemistry</i> , 2016, 40, 3177-3186.	1.4	24
30	TiO ₂ microsphere impregnated alginate: a novel hybrid sorbent for uranium removal from aquatic bodies. <i>New Journal of Chemistry</i> , 2020, 44, 3950-3960.	1.4	23
31	Novel hybrid material humic acid impregnated magnetic chitosan nano particles for decontamination of uranium from aquatic environment. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103110.	3.3	21
32	Simple hydrothermal approach for synthesis of fluorescent molybdenum disulfide quantum dots: Sensing of Cr ³⁺ ion and cellular imaging. <i>Materials Science and Engineering C</i> , 2020, 111, 110778.	3.8	21
33	Present status of hybrid materials for potable water decontamination: a review. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3214-3248.	1.2	19
34	Thiol functionalised silica microsphere loaded polymeric hydrogel: Development of a novel hybrid sorbent for removal of lead and cadmium. <i>Chemosphere</i> , 2022, 286, 131659.	4.2	19
35	Evaluation of selected pharmaceuticals and personal care products in water matrix using ion trap mass spectrometry: A simple weighted calibration curve approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 185, 113214.	1.4	17
36	Chitosan impregnated Ca-alginate: a new hybrid material for removal of uranium from potable water. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 1905-1914.	0.7	16

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37	Titania coated silica microsphere functionalized with potassium ferrocyanide impregnated in calcium alginate for efficient removal of Cs from aquatic environment. Journal of Environmental Chemical Engineering, 2017, 5, 5187-5195.	3.3	13
38	Recovery of gold using graphene oxide/calcium alginate hydrogel beads from a scrap solid state detector. Journal of Environmental Chemical Engineering, 2019, 7, 103134.	3.3	9
39	Perspectives of different colour-emissive nanomaterials in fluorescent ink, LEDs, cell imaging, and sensing of various analytes. Luminescence, 2023, 38, 867-895.	1.5	9
40	Alginate impregnated ferric hexacyanoferrate(II) for effective decontamination of cesium from aquatic environment. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 1827-1835.	0.7	5
41	Association and migration behavior of trace metals with humus colloidal particles in aquatic subsurface medium. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 503-511.	0.7	4
42	Nanoparticle-integrated electrochemical devices for identification of mycotoxins. , 2020, , 275-296.		3
43	Surface-modified metal nanoparticles for recognition of toxic organic molecules. , 2020, , 415-432.		2