

Sushanta Debnath

List of Publications by Year in descending order

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34
papers

1,491
citations

279487

23
h-index

377514

34
g-index

34
all docs

34
docs citations

34
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics, isotherm and thermodynamics for Cr(III) and Cr(VI) adsorption from aqueous solutions by crystalline hydrous titanium oxide. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 67-77.	1.0	156
2	Magnetic chitosan- α -GO nanocomposite: Synthesis, characterization and batch adsorber design for Cr(VI) removal. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 963-973.	3.3	123
3	Arsenic bioaccumulation in rice and edible plants and subsequent transmission through food chain in Bengal basin: a review of the perspectives for environmental health. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 429-441.	0.6	97
4	Preparation, characterization and evaluation of fluoride adsorption efficiency from water of iron-aluminium oxide-graphene oxide composite material. <i>Chemical Engineering Journal</i> , 2016, 306, 269-279.	6.6	90
5	Optimization and mechanism elucidation of the catalytic photo-degradation of the dyes Eosin Yellow (EY) and Naphthol blue black (NBB) by a polyaniline-coated titanium dioxide nanocomposite. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 330-342.	10.8	87
6	Nanostructured hydrous titanium(IV) oxide: Synthesis, characterization and Ni(II) adsorption behavior. <i>Chemical Engineering Journal</i> , 2009, 152, 480-491.	6.6	80
7	Removal of Arsenic from Groundwater using Crystalline Hydrous Ferric Oxide (CHFO). <i>Water Quality Research Journal of Canada</i> , 2003, 38, 193-210.	1.2	67
8	Impact of process parameters on removal of Congo red by graphene oxide from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 260-272.	3.3	66
9	Equilibrium modeling of single and binary adsorption of Cd(II) and Cu(II) onto agglomerated nano structured titanium(IV) oxide. <i>Desalination</i> , 2011, 273, 330-342.	4.0	56
10	Competitive adsorption of ternary dye mixture using pine cone powder modified with β -cyclodextrin. <i>Journal of Molecular Liquids</i> , 2017, 225, 679-688.	2.3	56
11	Development of a polyaniline-lignocellulose composite for optimal adsorption of Congo red. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 199-209.	3.6	55
12	Rapid and efficient removal of fluoride ions from aqueous solution using a polypyrrole coated hydrous tin oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 103-118.	5.0	55
13	Intracellular detection of hazardous Cd^{2+} through a fluorescence imaging technique by using a nontoxic coumarin based sensor. <i>Dalton Transactions</i> , 2017, 46, 2524-2531.	1.6	43
14	Physicochemical Aspects on Fluoride Adsorption for Removal from Water by Synthetic Hydrous Iron(III) α -Chromium(III) Mixed Oxide. <i>Separation Science and Technology</i> , 2010, 45, 472-485.	1.3	40
15	Efficient removal of Reactive Black from aqueous solution using polyaniline coated ligno-cellulose composite as a potential adsorbent. <i>Journal of Molecular Liquids</i> , 2015, 209, 387-396.	2.3	39
16	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2003, 143, 245-256.	1.1	38
17	Single stage batch adsorber design for efficient Eosin yellow removal by polyaniline coated ligno-cellulose. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 732-739.	3.6	37
18	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 & Engineering Data</i> , 2013, 58, 2809-2818.	1.0	36

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19	Removal of Congo red from aqueous solution by two variants of calcium and iron based mixed oxide nano-particle agglomerates. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2119-2129.	2.9	32
20	Hydrous ZrO ₂ decorated polyaniline nanofibres: Synthesis, characterization and application as an efficient adsorbent for water defluoridation. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 342-358.	5.0	30
21	Removal of Ni(II) and Cr(VI) with Titanium(IV) Oxide Nanoparticle Agglomerates in Fixed-Bed Columns. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2031-2039.	1.8	29
22	Study of Gallium Oxide Nanoparticles Conjugated with β -Cyclodextrin: An Application To Combat Cancer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17127-17137.	4.0	29
23	Photoinduced Dynamics and Toxicity of a Cancer Drug in Proximity of Inorganic Nanoparticles under Visible Light. <i>ChemPhysChem</i> , 2016, 17, 270-277.	1.0	24
24	Ultrasound assisted adsorptive removal of hazardous dye Safranin O from aqueous solution using crosslinked graphene oxide-chitosan (GO CH) composite and optimization by response surface methodology (RSM) approach. <i>Carbohydrate Polymers</i> , 2017, 175, 509-517.	5.1	24
25	Hydrous TiO ₂ @polypyrrole hybrid nanocomposite as an efficient selective scavenger for the defluoridation of drinking water. <i>RSC Advances</i> , 2016, 6, 99482-99495.	1.7	18
26	Adsorption-Desorption Behavior of Cadmium(II) and Copper(II) on the Surface of Nanoparticle Agglomerates of Hydrous Titanium(IV) Oxide. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3021-3028.	1.0	17
27	A bis-hydrazone derivative of 2,5-furandicarboxaldehyde with perfect hetero-atomic cavity for selective sensing of Hg(II) and its intracellular detection in living HeLa S3 cell. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1181-1190.	4.0	16
28	A real time colorimetric "two in one"™ kit for tracking ppb levels of uric acid and Hg ²⁺ in live HeLa S3 cells and Hg ²⁺ induced keto-enol tautomerism. <i>RSC Advances</i> , 2016, 6, 62990-62998.	1.7	13
29	Exploration of interfacial dynamics in squaraine based nano hybrids for potential photodynamic action. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111842.	2.0	12
30	L-Cysteine-Conjugated Ruthenium Hydrous Oxide Nanomaterials with Anticancer Active Application. <i>Langmuir</i> , 2018, 34, 1447-1456.	1.6	8
31	Characterization of Agglomerated Nanosized Titanium(IV) Oxide Prepared by Two Pathways and Their Performance Toward Cu(II) Adsorption. <i>International Journal of Green Nanotechnology</i> , 2011, 3, 271-280.	0.3	6
32	A Non-Perilous Coumarin-Based Ratiometric Probe for "In Vitro" Detection of Cu through Cell Imaging Technique. <i>ChemistrySelect</i> , 2017, 2, 8270-8277.	0.7	6
33	Effects of free soluble iron on thermal aggregation of hemoglobin. <i>Biophysical Chemistry</i> , 2021, 269, 106527.	1.5	4
34	Flow Cytometric Analysis of Protein Aggregates. <i>Protein and Peptide Letters</i> , 2018, 24, 969-973.	0.4	2