

Arjun Maity

List of Publications by Year in descending order

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77
papers

5,754
citations

76031

42
h-index

84171

75
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78
all docs

78
docs citations

78
times ranked

6592
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel hydroxide nanoparticles decorated naphthalene sulfonic acid-doped polyaniline nanotubes as efficient catalysts for nitroarene reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 979-989.	5.0	19
2	Zero valent nickel nanoparticles decorated polyaniline nanotubes for the efficient removal of Pb(II) from aqueous solution: Synthesis, characterization and mechanism investigation. <i>Chemical Engineering Journal</i> , 2021, 417, 127910.	6.6	36
3	Efficient catalytic reduction of nitroaromatics by recyclable 2-naphthalene sulfonic acid doped polyaniline nanotubes decorated with NiFe ₂ O ₄ nanorods. <i>Materials Today Communications</i> , 2021, 26, 101767.	0.9	7
4	Flower-like structures of carbonaceous nanomaterials obtained from biomass for the treatment of copper ion-containing water and their re-use in organic transformations. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105242.	3.3	12
5	Polyaniline nanofibers, a nanostructured conducting polymer for the remediation of Methyl orange dye from aqueous solutions in fixed-bed column studies. <i>Heliyon</i> , 2021, 7, e08180.	1.4	5
6	Artificial neural network and cost estimation for Cr(VI) removal using polycationic composite adsorbent. <i>Water and Environment Journal</i> , 2020, 34, 29-40.	1.0	3
7	Synthesis of gâ€C ₃ /sub>N ₄ /sub>/InVO ₄ /sub> Semiconductor for Improved Photocatalytic and Photoelectrochemical Applications. <i>Electroanalysis</i> , 2020, 32, 2535-2544.	1.5	13
8	Polyaniline-Coated TiO ₂ /sub> Nanorods for Photocatalytic Degradation of Bisphenol A in Water. <i>ACS Omega</i> , 2020, 5, 29642-29656.	1.6	55
9	Polypyrrole-coated gum ghatti-grafted poly(acrylamide) composite for the selective removal of hexavalent chromium from waste water. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2851-2860.	3.6	17
10	Influence of Magnetic Nanoparticles on Modified Polypyrrole/m-Phenylenediamine for Adsorption of Cr(VI) from Aqueous Solution. <i>Polymers</i> , 2020, 12, 679.	2.0	36
11	Removal of toxic pollutants from aqueous media using poly (vinyl imidazole) crosslinked chitosan synthesised through microwave assisted technique. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 187-197.	5.0	29
12	Evaluation of the efficacy of halloysite nanotubes in the removal of acidic and basic dyes from aqueous solution. <i>Clay Minerals</i> , 2019, 54, 197-207.	0.2	9
13	Investigation of the electrical charge transport mechanism and magnetoresistance response in chloride-doped polyanilineâ€Fe composite nanofibers. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345304.	1.3	3
14	Surface-Modified Conducting Polymer-Based Nanostructured Materials for the Removal of Toxic Heavy Metals from Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 111-144.	0.3	4
15	Polymer-Based Magnetic Nanocomposites for the Removal of Highly Toxic Hexavalent Chromium from Aqueous Solutions. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 189-227.	0.3	8
16	Low field microwave absorption in iron nanoparticles embedded polyaniline nanofibers composite. <i>Synthetic Metals</i> , 2019, 249, 63-68.	2.1	14
17	Fluoride Toxicity and Recent Advances in Water Defluoridation with Specific Emphasis on Nanotechnology. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 395-442.	0.3	2
18	Magnetic arginine-functionalized polypyrrole with improved and selective chromium(VI) ions removal from water. <i>Journal of Molecular Liquids</i> , 2019, 275, 778-791.	2.3	79

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19	Silver decorated magnetic nanocomposite (Fe ₃ O ₄ @PPy-MAA/Ag) as highly active catalyst towards reduction of 4-nitrophenol and toxic organic dyes. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 546-558.	10.8	298
20	Thiol-modified magnetic polypyrrole nanocomposite: An effective adsorbent for the adsorption of silver ions from aqueous solution and subsequent water disinfection by silver-laden nanocomposite. <i>Chemical Engineering Journal</i> , 2019, 360, 423-434.	6.6	54
21	Synergetic enhancement of Cr(VI) removal from aqueous solutions using polyaniline@Ni(OH) ₂ nanocomposites adsorbent. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2514-2527.	3.3	44
22	L-cysteine doped polypyrrole (PPy@L-Cyst): A super adsorbent for the rapid removal of Hg ⁺² and efficient catalytic activity of the spent adsorbent for reuse. <i>Chemical Engineering Journal</i> , 2018, 345, 621-630.	6.6	99
23	m-Phenylenediamine-modified polypyrrole as an efficient adsorbent for removal of highly toxic hexavalent chromium in water. <i>Materials Today Communications</i> , 2018, 15, 153-164.	0.9	31
24	A novel method for removal of Cr(VI) using polypyrrole magnetic nanocomposite in the presence of unsteady magnetic fields. <i>Separation and Purification Technology</i> , 2018, 194, 377-387.	3.9	135
25	Synthesis and characterization of alginate beads encapsulated zinc oxide nanoparticles for bacteria disinfection in water. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 686-692.	5.0	52
26	Fe-polyaniline composite nanofiber catalyst for chemoselective hydrolysis of oxime. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 592-601.	5.0	11
27	Hydrous CeO ₂ -Fe ₃ O ₄ decorated polyaniline fibers nanocomposite for effective defluoridation of drinking water. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 500-516.	5.0	52
28	Rapid high adsorption performance of hydrous cerium-magnesium oxides for removal of fluoride from water. <i>Journal of Molecular Liquids</i> , 2018, 265, 496-509.	2.3	58
29	Removal of Noble Metal Ions (Ag ⁺) by Mercapto Group-Containing Polypyrrole Matrix and Reusability of Its Waste Material in Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2711-2724.	3.2	43
30	Sonocatalytic rapid degradation of Congo red dye from aqueous solution using magnetic Fe ₀ /polyaniline nanofibers. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 600-613.	3.8	68
31	Selective removal of toxic Cr(VI) from aqueous solution by adsorption combined with reduction at a magnetic nanocomposite surface. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 214-228.	5.0	152
32	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
33	High-Performance Hg(II) Removal Using Thiol-Functionalized Polypyrrole (PPy/MAA) Composite and Effective Catalytic Activity of Hg(II)-Adsorbed Waste Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7524-7536.	3.2	61
34	Synthesis and characterization of Fe ₀ /TiO ₂ nano-composites for ultrasound assisted enhanced catalytic degradation of reactive black 5 in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 403-414.	5.0	37
35	Dehalogenation of aromatic halides by polyaniline/zero-valent iron composite nanofiber: Kinetics and mechanisms. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 207-216.	10.8	40
36	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

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37	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
38	Selective removal of Cr(VI) from aqueous solution by polypyrrole/2,5-diaminobenzene sulfonic acid composite. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 144-157.	5.0	65
39	Sorption isotherms, kinetic and optimization process of amino acid proline based polymer nanocomposite for the removal of selected textile dyes from industrial wastewater. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 189-201.	1.7	23
40	High critical field NbC superconductor on carbon spheres. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15218-15222.	1.3	3
41	Synthesis and magnetic properties of highly dispersed tantalum carbide nanoparticles decorated on carbon spheres. <i>CrystEngComm</i> , 2016, 18, 1427-1438.	1.3	4
42	Gum karaya based hydrogel nanocomposites for the effective removal of cationic dyes from aqueous solutions. <i>Applied Surface Science</i> , 2016, 364, 917-930.	3.1	106
43	Enhanced removal of Cr(VI) from aqueous solutions using polypyrrole wrapped oxidized MWCNTs nanocomposites adsorbent. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 257-267.	5.0	166
44	Polyaniline nanofibers as highly effective re-usable adsorbent for removal of reactive black 5 from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 442-451.	5.0	70
45	Magnetic adsorption separation (MAS) process: An alternative method of extracting Cr(VI) from aqueous solution using polypyrrole coated Fe ₃ O ₄ nanocomposites. <i>Separation and Purification Technology</i> , 2016, 158, 250-258.	3.9	63
46	Development of a reduced-graphene-oxide based superparamagnetic nanocomposite for the removal of nickel (II) from an aqueous medium via a fluorescence sensor platform. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 69-79.	5.0	11
47	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
48	Polyaniline/Fe composite nanofiber added softmagnetic carbonyl iron microsphere suspension and its magnetorheology. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1861-1868.	2.7	44
49	The Adsorption of Pb ²⁺ and Cu ²⁺ onto Gum Ghatti-Grafted Poly(acrylamide-co-acrylonitrile) Biodegradable Hydrogel: Isotherms and Kinetic Models. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2026-2039.	1.2	111
50	Additive role of attapulgite nanoclay on carbonyl iron-based magnetorheological suspension. <i>Colloid and Polymer Science</i> , 2015, 293, 89-95.	1.0	31
51	High-performance towards removal of toxic hexavalent chromium from aqueous solution using graphene oxide-alpha cyclodextrin-polypyrrole nanocomposites. <i>Journal of Molecular Liquids</i> , 2015, 211, 71-77.	2.3	97
52	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
53	Synthesis, nanostructure evaluation and tunable anomalous 3D hopping transport of manganese ferrite encapsulated poly[3,4-(ethylenedioxy)thiophene] decorated graphene layer. <i>RSC Advances</i> , 2015, 5, 36149-36155.	1.7	6
54	Magnetite@polypyrrole core-shell structured microspheres and their dual stimuli-response under electric and magnetic fields. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3150-3158.	2.7	73

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55	Polyaniline/FeO composite nanofibers: An excellent adsorbent for the removal of arsenic from aqueous solutions. <i>Chemical Engineering Journal</i> , 2015, 271, 135-146.	6.6	102
56	Effective removal of cationic dyes from aqueous solution using gum ghatti-based biodegradable hydrogel. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 8-20.	3.6	97
57	Enhanced removal of methyl orange from aqueous solutions by poly HEMA-chitosan-MWCNT nano-composite. <i>Journal of Molecular Liquids</i> , 2015, 202, 189-198.	2.3	180
58	High-performance towards Cr(VI) removal using multi-active sites of polypyrrole-graphene oxide nanocomposites: Batch and column studies. <i>Chemical Engineering Journal</i> , 2015, 262, 921-931.	6.6	108
59	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
60	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
61	Enhanced adsorptive degradation of Congo red in aqueous solutions using polyaniline/FeO composite nanofibers. <i>Chemical Engineering Journal</i> , 2015, 260, 716-729.	6.6	83
62	Magnetic chitosan-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
63	Composite nanofibers prepared from metallic iron nanoparticles and polyaniline: High performance for water treatment applications. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 75-82.	5.0	98
64	Highly Effective Removal of Toxic Cr(VI) from Wastewater Using Sulfuric Acid-Modified Avocado Seed. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1214-1224.	1.8	68
65	Polypyrrole-coated halloysite nanotube clay nanocomposite: Synthesis, characterization and Cr(VI) adsorption behaviour. <i>Applied Clay Science</i> , 2014, 102, 60-70.	2.6	87
66	Synthesis and flocculation properties of gum ghatti and poly(acrylamide-co-acrylonitrile) based biodegradable hydrogels. <i>Carbohydrate Polymers</i> , 2014, 114, 321-329.	5.1	58
67	Breakthrough studies for Cr(VI) sorption from aqueous solution using exfoliated polypyrrole-organically modified montmorillonite clay nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2208-2216.	2.9	45
68	Exfoliated polypyrrole-organically modified montmorillonite clay nanocomposite as a potential adsorbent for Cr(VI) removal. <i>Chemical Engineering Journal</i> , 2013, 222, 186-197.	6.6	179
69	Chromium(VI) removal from water using fixed bed column of polypyrrole/Fe ₃ O ₄ nanocomposite. <i>Separation and Purification Technology</i> , 2013, 110, 11-19.	3.9	172
70	Efficient removal of Congo red from aqueous solutions by adsorption onto interconnected polypyrrole-polyaniline nanofibres. <i>Chemical Engineering Journal</i> , 2013, 228, 506-515.	6.6	205
71	High efficient removal of chromium(VI) using glycine doped polypyrrole adsorbent from aqueous solution. <i>Chemical Engineering Journal</i> , 2012, 198-199, 536-546.	6.6	142
72	Removal of hexavalent chromium from aqueous solution using polypyrrole-polyaniline nanofibers. <i>Chemical Engineering Journal</i> , 2012, 181-182, 323-333.	6.6	338

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73	Removal of fluoride from aqueous solution by polypyrrole/Fe ₃ O ₄ magnetic nanocomposite. Journal of Hazardous Materials, 2011, 186, 150-159.	6.5	221
74	Enhanced removal of Cr(VI) from aqueous solution using polypyrrole/Fe ₃ O ₄ magnetic nanocomposite. Journal of Hazardous Materials, 2011, 190, 381-390.	6.5	532
75	Manganese associated nanoparticles agglomerate of iron(III) oxide: Synthesis, characterization and arsenic(III) sorption behavior with mechanism. Journal of Hazardous Materials, 2010, 184, 832-842.	6.5	86
76	Highly Conductive Core-Shell Nanocomposite of Poly(N-vinylcarbazole)-Polypyrrole with Multiwalled Carbon Nanotubes. Macromolecular Rapid Communications, 2008, 29, 1582-1587.	2.0	47
77	Polyaniline-Based Nanocomposites for Environmental Remediation. , 0, , .		2