A Santhana Krishna Kumar

List of Publications by Year
in descending order

41 papers	2,439 citations	172386 29 h-index	276775 41 g-index
41 all docs	41 docs citations	41 times ranked	3057 citing authors

#	Article	IF	Citations
1	Chitosan-functionalized graphene oxide: A novel adsorbent an efficient adsorption of arsenic from aqueous solution. Journal of Environmental Chemical Engineering, 2016, 4, 1698-1713.	3.3	217
2	Effective adsorption of chromium(<scp>vi</scp>)/Cr(<scp>iii</scp>) from aqueous solution using ionic liquid functionalized multiwalled carbon nanotubes as a super sorbent. Journal of Materials Chemistry A, 2015, 3, 7044-7057.	5.2	201
3	Application of Cellulose-Clay Composite Biosorbent toward the Effective Adsorption and Removal of Chromium from Industrial Wastewater. Industrial & Engineering Chemistry Research, 2012, 51, 58-69.	1.8	196
4	Graphene oxideâ€“aluminium oxyhydroxide interaction and its application for the effective adsorption of fluoride. RSC Advances, 2014, 4, 53711-53721.	1.7	115
5	Synthesis and Characterization of Two-Dimensional Transition Metal Dichalcogenide Magnetic MoS₂@Fe₃O₄ Nanoparticles for Adsorption of Cr(VI)/Cr(III). ACS Omega, 2017, 2, 6187-6200.	1.6	107
6	Biosorption of cadmium using a novel bacterium isolated from an electronic industry effluent. Chemical Engineering Journal, 2014, 235, 176-185.	6.6	95
7	A novel amine impregnated graphene oxide adsorbent for the removal of hexavalent chromium. Chemical Engineering Journal, 2013, 230, 328-337.	6.6	94
8	The journey traversed in the remediation of hexavalent chromium and the road ahead toward greener alternativesâ€”A perspective. Coordination Chemistry Reviews, 2016, 317, 157-166.	9.5	82
9	Cerium(<scp>iii</scp>)-directed assembly of glutathione-capped gold nanoclusters for sensing and imaging of alkaline phosphatase-mediated hydrolysis of adenosine triphosphate. Nanoscale, 2018, 10, 17691-17698.	2.8	78
10	A novel ultrasonication method in the preparation of zirconium impregnated cellulose for effective fluoride adsorption. Ultrasonics Sonochemistry, 2014, 21, 1090-1099.	3.8	74
11	Synthesis of magnetically separable and recyclable magnetic nanoparticles decorated with Î²-cyclodextrin functionalized graphene oxide an excellent adsorption of As(V)/(III). Journal of Molecular Liquids, 2017, 237, 387-401.	2.3	73
12	Preparation and characterization of exfoliated graphene oxideâ€“<scp>l</scp>-cystine as an effective adsorbent of Hg(<scp>ii</scp>) adsorption. RSC Advances, 2015, 5, 6294-6304.	1.7	71
13	Potential application of dodecylamine modified sodium montmorillonite as an effective adsorbent for hexavalent chromium. Chemical Engineering Journal, 2012, 211-212, 396-405.	6.6	68
14	Exploring the interesting interaction between graphene oxide, Aliquat-336 (a room temperature ionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.7	66
15	Microwave assisted preparation of n-butylacrylate grafted chitosan and its application for Cr(VI) adsorption. International Journal of Biological Macromolecules, 2014, 66, 135-143.	3.6	66
16	Efficacy of novel Alâ€“Zr impregnated cellulose adsorbent prepared using microwave irradiation for the facile defluoridation of water. Journal of Environmental Chemical Engineering, 2013, 1, 1325-1335.	3.3	62
17	Facile synthesis and characterization of thiol-functionalized graphene oxide as effective adsorbent for Hg(II). Journal of Environmental Chemical Engineering, 2016, 4, 2052-2065.	3.3	62
18	Comprehending the interaction between chitosan and ionic liquid for the adsorption of palladium. International Journal of Biological Macromolecules, 2015, 72, 633-639.	3.6	61

#	Article	IF	Citations
19	Effective adsorption of hexavalent chromium through a three center (3c) co-operative interaction with an ionic liquid and biopolymer. Journal of Hazardous Materials, 2012, 239-240, 213-224.	6.5	59
20	A perspective on diverse adsorbent materials to recover precious palladium and the way forward. RSC Advances, 2017, 7, 52133-52142.	1.7	57
21	Magnetically Separable Nanospherical g-C₃N₄@Fe₃O₄ as a Recyclable Material for Chromium Adsorption and Visible-Light-Driven Catalytic Reduction of Aromatic Nitro Compounds. ACS Sustainable Chemistry and Engineering, 2019, 7, 6662-6671.	3.2	53
22	Impact of fluoride in potable water â€“ An outlook on the existing defluoridation strategies and the road ahead. Coordination Chemistry Reviews, 2019, 387, 121-128.	9.5	50
23	Trialkylamine Impregnated Macroporous Polymeric Sorbent for the Effective Removal of Chromium from Industrial Wastewater. Journal of Chemical & Engineering Data, 2011, 56, 2295-2304.	1.0	45
24	An efficient ultrasound assisted approach for the impregnation of room temperature ionic liquid onto Dowex 1Ã—8 resin matrix and its application toward the enhanced adsorption of chromium (VI). Journal of Hazardous Materials, 2012, 213-214, 249-257.	6.5	41
25	Adsorptive Demercuration by Virtue of an Appealing Interaction Involving Biopolymer Cellulose and Mercaptobenzothiazole. Industrial & Engineering Chemistry Research, 2013, 52, 11838-11849.	1.8	38
26	Heavy metal and organic dye removal via a hybrid porous hexagonal boron nitride-based magnetic aerogel. Npj Clean Water, 2022, 5, .	3.1	37
27	Perspective on recent developments of near infrared-emitting gold nanoclusters: applications in sensing and bio-imaging. Analytical Methods, 2020, 12, 1809-1826.	1.3	35
28	Microwave assisted solvent free green preparation and physicochemical characterization of surfactant-anchored cellulose and its relevance toward the effective adsorption of chromium. Journal of Colloid and Interface Science, 2012, 372, 88-98.	5.0	31
29	Enhanced adsorption of hexavalent chromium arising out of an admirable interaction between a synthetic polymer and an ionic liquid. Chemical Engineering Journal, 2013, 222, 454-463.	6.6	31
30	A Meticulous Study on the Adsorption of Mercury as Tetrachloromercurate(II) Anion with Trioctylamine Modified Sodium Montmorillonite and Its Application to a Coal Fly Ash Sample. Industrial & Engineering Chemistry Research, 2012, 51, 11312-11327.	1.8	28
31	L-cystine-linked BODIPY-adsorbed monolayer MoS2 quantum dots for ratiometric fluorescent sensing of biothiols based on the inner filter effect. Analytica Chimica Acta, 2020, 1113, 43-51.	2.6	27
32	Microwave assisted preparation of glycidyl methacrylate grafted cellulose adsorbent for the effective adsorption of mercury from a coal fly ash sample. Journal of Environmental Chemical Engineering, 2013, 1, 1359-1367.	3.3	22
33	Aluminium hydroxide impregnated macroreticular aromatic polymeric resin as a sustainable option for defluoridation. Journal of Environmental Chemical Engineering, 2015, 3, 630-641.	3.3	17
34	Self-Assembly of Poly(ethyleneimine)-Modified g-C₃N₄ Nanosheets with Lysozyme Fibrils for Chromium Detoxification. Langmuir, 2021, 37, 7147-7155.	1.6	17
35	Two in One: Poly(ethyleneimine)-Modified MnO₂ Nanosheets for Ultrasensitive Detection and Catalytic Reduction of 2,4,6-Trinitrotoluene and Other Nitro Aromatics. ACS Sustainable Chemistry and Engineering, 2021, 9, 1142-1151.	3.2	13
36	Prospective application of diethylaminoethyl cellulose (DEAE-cellulose) with a high adsorption capacity toward the detoxification of 2,4-dichlorophenoxyacetic acid (2,4-D) from water. RSC Advances, 2021, 11, 22640-22651.	1.7	11

#	Article	IF	Citations
37	Microwave assisted preparation and characterization of biopolymer-clay composite material and its application for chromium detoxification from industrial effluent. Advanced Materials Letters, 2011, 2, 383-391.	0.3	11
38	Probing the Interaction between Fluoride and the Polysaccharides in Al(III)- and Zr (IV)-Modified Tea Waste by Using Diverse Analytical Characterization Techniques. ChemistrySelect, 2017, 2, 10123-10135.	0.7	10
39	An enhanced adsorption methodology for the detoxification of chromium using n-octylamine impregnated Amberlite XAD-4 polymeric sorbent. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1598-1610.	0.9	9
40	Tapping the potential of a glucosamine polysaccharide-diatomaceous earth hybrid adsorbent in the solid phase extraction of a persistent organic pollutant and toxic pesticide 4,4â€²-DDT from water. RSC Advances, 2022, 12, 5489-5500.	1.7	8
41	An Integrated Use of Biopolymer-Ceramic Composites Towards Capacitor and Environmental Application. Polymer-Plastics Technology and Engineering, 2014, 53, 626-630.	1.9	1