

A Santhana Krishna Kumar

List of Publications by Citations

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40
papers

1,832
citations

25
h-index

41
g-index

41
ext. papers

2,079
ext. citations

7.7
avg, IF

5.45
L-index

#	Paper	IF	Citations
40	Effective adsorption of chromium(VI)/Cr(III) from aqueous solution using ionic liquid functionalized multiwalled carbon nanotubes as a super sorbent. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7044-7057	13	169
39	Application of Cellulose-Clay Composite Biosorbent toward the Effective Adsorption and Removal of Chromium from Industrial Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 58-69	3.9	161
38	Chitosan-functionalized graphene oxide: A novel adsorbent an efficient adsorption of arsenic from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1698-1713	6.8	155
37	Graphene oxide-Aluminium oxyhydroxide interaction and its application for the effective adsorption of fluoride. <i>RSC Advances</i> , 2014 , 4, 53711-53721	3.7	98
36	A novel amine impregnated graphene oxide adsorbent for the removal of hexavalent chromium. <i>Chemical Engineering Journal</i> , 2013 , 230, 328-337	14.7	79
35	Biosorption of cadmium using a novel bacterium isolated from an electronic industry effluent. <i>Chemical Engineering Journal</i> , 2014 , 235, 176-185	14.7	77
34	Synthesis and Characterization of Two-Dimensional Transition Metal Dichalcogenide Magnetic MoS ₂ @FeO Nanoparticles for Adsorption of Cr(VI)/Cr(III). <i>ACS Omega</i> , 2017 , 2, 6187-6200	3.9	74
33	The journey traversed in the remediation of hexavalent chromium and the road ahead toward greener alternatives-A perspective. <i>Coordination Chemistry Reviews</i> , 2016 , 317, 157-166	23.2	68
32	A novel ultrasonication method in the preparation of zirconium impregnated cellulose for effective fluoride adsorption. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1090-9	8.9	60
31	Synthesis of magnetically separable and recyclable magnetic nanoparticles decorated with β -cyclodextrin functionalized graphene oxide an excellent adsorption of As(V)/(III). <i>Journal of Molecular Liquids</i> , 2017 , 237, 387-401	6	58
30	Microwave assisted preparation of n-butylacrylate grafted chitosan and its application for Cr(VI) adsorption. <i>International Journal of Biological Macromolecules</i> , 2014 , 66, 135-43	7.9	58
29	Potential application of dodecylamine modified sodium montmorillonite as an effective adsorbent for hexavalent chromium. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 396-405	14.7	58
28	Preparation and characterization of exfoliated graphene oxide-L-cystine as an effective adsorbent of Hg(II) adsorption. <i>RSC Advances</i> , 2015 , 5, 6294-6304	3.7	57
27	Exploring the interesting interaction between graphene oxide, Aliquat-336 (a room temperature ionic liquid) and chromium(VI) for wastewater treatment. <i>RSC Advances</i> , 2013 , 3, 2697	3.7	57
26	Facile synthesis and characterization of thiol-functionalized graphene oxide as effective adsorbent for Hg(II). <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 2052-2065	6.8	52
25	Efficacy of novel Al ₂ O ₃ impregnated cellulose adsorbent prepared using microwave irradiation for the facile defluoridation of water. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 1325-1335	6.8	52
24	Effective adsorption of hexavalent chromium through a three center (3c) co-operative interaction with an ionic liquid and biopolymer. <i>Journal of Hazardous Materials</i> , 2012 , 239-240, 213-24	12.8	52

23	Comprehending the interaction between chitosan and ionic liquid for the adsorption of palladium. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 633-9	7.9	49
22	Cerium(iii)-directed assembly of glutathione-capped gold nanoclusters for sensing and imaging of alkaline phosphatase-mediated hydrolysis of adenosine triphosphate. <i>Nanoscale</i> , 2018 , 10, 17691-17698	7.7	41
21	Trialkylamine Impregnated Macroporous Polymeric Sorbent for the Effective Removal of Chromium from Industrial Wastewater. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2295-2304	2.8	39
20	An efficient ultrasound assisted approach for the impregnation of room temperature ionic liquid onto Dowex 1B resin matrix and its application toward the enhanced adsorption of chromium (VI). <i>Journal of Hazardous Materials</i> , 2012 , 213-214, 249-57	12.8	35
19	A perspective on diverse adsorbent materials to recover precious palladium and the way forward. <i>RSC Advances</i> , 2017 , 7, 52133-52142	3.7	35
18	Adsorptive Demercuration by Virtue of an Appealing Interaction Involving Biopolymer Cellulose and Mercaptobenzothiazole. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11838-11849	3.9	33
17	Magnetically Separable Nanospherical g-C ₃ N ₄ @Fe ₃ O ₄ as a Recyclable Material for Chromium Adsorption and Visible-Light-Driven Catalytic Reduction of Aromatic Nitro Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6662-6671	8.3	30
16	Impact of fluoride in potable water – An outlook on the existing defluoridation strategies and the road ahead. <i>Coordination Chemistry Reviews</i> , 2019 , 387, 121-128	23.2	28
15	Microwave assisted solvent free green preparation and physicochemical characterization of surfactant-anchored cellulose and its relevance toward the effective adsorption of chromium. <i>Journal of Colloid and Interface Science</i> , 2012 , 372, 88-98	9.3	24
14	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. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11312-11327	3.9	22
13	Enhanced adsorption of hexavalent chromium arising out of an admirable interaction between a synthetic polymer and an ionic liquid. <i>Chemical Engineering Journal</i> , 2013 , 222, 454-463	14.7	19
12	Microwave assisted preparation of glycidyl methacrylate grafted cellulose adsorbent for the effective adsorption of mercury from a coal fly ash sample. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 1359-1367	6.8	18
11	Perspective on recent developments of near infrared-emitting gold nanoclusters: applications in sensing and bio-imaging. <i>Analytical Methods</i> , 2020 , 12, 1809-1826	3.2	17
10	L-cystine-linked BODIPY-adsorbed monolayer MoS quantum dots for ratiometric fluorescent sensing of biothiols based on the inner filter effect. <i>Analytica Chimica Acta</i> , 2020 , 1113, 43-51	6.6	14
9	Aluminium hydroxide impregnated macroreticular aromatic polymeric resin as a sustainable option for defluoridation. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 630-641	6.8	12
8	An enhanced adsorption methodology for the detoxification of chromium using n-octylamine impregnated Amberlite XAD-4 polymeric sorbent. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011 , 46, 1598-610	2.3	8
7	Microwave assisted preparation and characterization of biopolymer-clay composite material and its application for chromium detoxification from industrial effluent. <i>Advanced Materials Letters</i> , 2011 , 2, 383-391	2.4	8
6	Self-Assembly of Poly(ethyleneimine)-Modified g-CN Nanosheets with Lysozyme Fibrils for Chromium Detoxification. <i>Langmuir</i> , 2021 , 37, 7147-7155	4	4

5	Two in One: Poly(ethyleneimine)-Modified MnO ₂ Nanosheets for Ultrasensitive Detection and Catalytic Reduction of 2,4,6-Trinitrotoluene and Other Nitro Aromatics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1142-1151	8.3	3
4	An Integrated Use of Biopolymer-Ceramic Composites Towards Capacitor and Environmental Application. <i>Polymer-Plastics Technology and Engineering</i> , 2014 , 53, 626-630		1
3	Probing the Interaction between Fluoride and the Polysaccharides in Al(III)- and Zr (IV)-Modified Tea Waste by Using Diverse Analytical Characterization Techniques. <i>ChemistrySelect</i> , 2017 , 2, 10123-10135	1.8	1
2	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.. <i>RSC Advances</i> , 2021 , 11, 22640-22651	3.7	1
1	Tapping the potential of a glucosamine polysaccharide-diatomaceous earth hybrid adsorbent in the solid phase extraction of a persistent organic pollutant and toxic pesticide 4,4'VDDT from water.. <i>RSC Advances</i> , 2022 , 12, 5489-5500	3.7	0