

Rathinam Karthik

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,199
citations

28
h-index

44
g-index

71
ext. papers

2,606
ext. citations

7
avg, IF

6.14
L-index

#	Paper	IF	Citations
71	Removal of Pb(II) and Cd(II) ions from aqueous solution using polyaniline grafted chitosan. <i>Chemical Engineering Journal</i> , 2015 , 263, 168-177	14.7	229
70	Removal of Cr(VI) ions by adsorption onto sodium alginate-polyaniline nanofibers. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 711-7	7.9	135
69	Facile synthesis of cross linked-chitosan-grafted-polyaniline composite and its Cr(VI) uptake studies. <i>International Journal of Biological Macromolecules</i> , 2014 , 67, 210-9	7.9	82
68	Removal of hexavalent chromium ions using polyaniline/silica gel composite. <i>Journal of Water Process Engineering</i> , 2014 , 1, 37-45	6.7	80
67	A novel quaternized chitosan-melamine-glutaraldehyde resin for the removal of nitrate and phosphate anions. <i>International Journal of Biological Macromolecules</i> , 2014 , 64, 224-32	7.9	79
66	Zr(IV) loaded cross-linked chitosan beads with enhanced surface area for the removal of nitrate and phosphate. <i>International Journal of Biological Macromolecules</i> , 2014 , 69, 336-43	7.9	71
65	An environmentally-friendly chitosan-lysozyme biocomposite for the effective removal of dyes and heavy metals from aqueous solutions. <i>Carbohydrate Polymers</i> , 2018 , 199, 506-515	10.3	64
64	Synthesis and characterization of metal loaded chitosan-alginate biopolymeric hybrid beads for the efficient removal of phosphate and nitrate ions from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 407-418	7.9	61
63	Chemical modification of chitin with polypyrrole for the uptake of Pb(II) and Cd(II) ions. <i>International Journal of Biological Macromolecules</i> , 2015 , 78, 157-64	7.9	61
62	Lanthanum (III) encapsulated chitosan-montmorillonite composite for the adsorptive removal of phosphate ions from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2018 , 112, 284-293	7.9	61
61	Polyimide derived laser-induced graphene as adsorbent for cationic and anionic dyes. <i>Carbon</i> , 2017 , 124, 515-524	10.4	58
60	Removal of chlorpyrifos, an insecticide using metal free heterogeneous graphitic carbon nitride (g-CN) incorporated chitosan as catalyst: Photocatalytic and adsorption studies. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 289-299	7.9	56
59	Enriched fluoride sorption using chitosan supported mixed metal oxides beads: Synthesis, characterization and mechanism. <i>Journal of Water Process Engineering</i> , 2014 , 2, 96-104	6.7	50
58	Preparation of amino terminated polyamidoamine functionalized chitosan beads and its Cr(VI) uptake studies. <i>Carbohydrate Polymers</i> , 2013 , 91, 631-7	10.3	50
57	Synthesis, characterization and Cr(VI) uptake study of polyaniline coated chitin. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 235-42	7.9	49
56	Enhancement of oil recovery using zirconium-chitosan hybrid composite by adsorptive method. <i>Carbohydrate Polymers</i> , 2016 , 145, 103-13	10.3	44
55	Exploitation of zinc oxide impregnated chitosan beads for the photocatalytic decolorization of an azo dye. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 900-10	7.9	43

54	Synthesis, characterization and Cr(VI) uptake studies of polypyrrole functionalized chitin. <i>Synthetic Metals</i> , 2014 , 198, 181-187	3.6	43
53	Synthesis of surface coated hydroxyapatite powders for fluoride removal from aqueous solution. <i>Powder Technology</i> , 2014 , 268, 306-315	5.2	43
52	Removal of hexavalent chromium ions from aqueous solution using chitosan/polypyrrole composite. <i>Desalination and Water Treatment</i> , 2015 , 56, 1587-1600		42
51	Photocatalytic aptitude of titanium dioxide impregnated chitosan beads for the reduction of Cr(VI). <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1265-71	7.9	42
50	Synthesis and characterization of chitosan/Mg-Al layered double hydroxide composite for the removal of oil particles from oil-in-water emulsion. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1586-1595	7.9	35
49	A novel quaternized resin with acrylonitrile/divinylbenzene/vinylbenzyl chloride skeleton for the removal of nitrate and phosphate. <i>Chemical Engineering Journal</i> , 2014 , 257, 45-55	14.7	35
48	Visible light-driven photoactivity of zinc oxide impregnated chitosan beads for the detoxification of textile dyes. <i>Applied Catalysis A: General</i> , 2015 , 503, 124-134	5.1	33
47	Photocatalytic reduction of nitrate over Ag ₃ IO ₂ in the presence of oxalic acid. <i>Journal of Water Process Engineering</i> , 2015 , 8, e23-e30	6.7	32
46	Hydrothermal encapsulation of lanthanum oxide derived Aegle marmelos admixed chitosan bead system for nitrate and phosphate retention. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 527-535	7.9	31
45	Adsorption study on removal of Cr(VI) ions by polyaniline composite. <i>Desalination and Water Treatment</i> , 2015 , 54, 3083-3093		30
44	Calcium phosphate scaling during wastewater desalination on oligoamide surfaces mimicking reverse osmosis and nanofiltration membranes. <i>Water Research</i> , 2018 , 128, 217-225	12.5	28
43	Effective adsorption of oil droplets from oil-in-water emulsion using metal ions encapsulated biopolymers: Role of metal ions and their mechanism in oil removal. <i>International Journal of Biological Macromolecules</i> , 2018 , 112, 294-305	7.9	27
42	Defluoridation of water using synthesized Zr(IV) encapsulated silica gel/chitosan biocomposite: Adsorption isotherms and kinetic studies. <i>Desalination and Water Treatment</i> , 2015 , 53, 3592-3603		26
41	Facile synthesis of chitosan-La-graphite composite and its influence in photocatalytic degradation of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 253-261	7.9	25
40	Synthesis of metal ion entrapped silica gel/chitosan biocomposite for defluoridation studies. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 347-53	7.9	25
39	Recovery of oil from oil-in-water emulsion using biopolymers by adsorptive method. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 399-407	7.9	24
38	Facile synthesis of metal incorporated chitin for the recovery of oil from oil-in-water emulsion using adsorptive method. <i>Journal of Cleaner Production</i> , 2016 , 139, 1339-1350	10.3	23
37	Applications of chitin and chitosan based biomaterials for the adsorptive removal of textile dyes from water - A comprehensive review. <i>Carbohydrate Polymers</i> , 2021 , 273, 118604	10.3	23

36	Fabrication of nano-graphene oxide assisted hydrotalcite/chitosan biocomposite: An efficient adsorbent for chromium removal from water. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 1068-1078	7.9	21
35	Surface-Induced Silica Scaling during Brackish Water Desalination: The Role of Surface Charge and Specific Chemical Groups. <i>Environmental Science & Technology</i> , 2019 , 53, 5202-5211	10.3	20
34	In-situ fabrication of zirconium entrenched biopolymeric hybrid membrane for the removal of toxic anions from aqueous medium. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 1199-1209	7.9	19
33	Defluoridation of water by Tea-bag model using La(3+) modified synthetic resin@chitosan biocomposite. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 1002-9	7.9	19
32	Enhanced photocatalytic response of ZnO embedded chitosan/ β -cyclodextrin towards the detoxification of Cr(VI) under visible light. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 867-876	7.9	19
31	Photo-decolorization and detoxification of toxic dyes using titanium dioxide impregnated chitosan beads. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 420-6	7.9	17
30	Biosorption of Pb(II) and Cd(II) ions from aqueous solution using polyaniline/chitin composite. <i>Separation Science and Technology</i> , 2016 , 51, 733-742	2.5	16
29	Defluoridation of water using dicarboxylic acids mediated chitosan-polyaniline/zirconium biopolymeric complex. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 16-22	7.9	16
28	Defluoridation of water using chitosan assisted ethylenediamine functionalized synthetic polymeric blends. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 621-7	7.9	16
27	Magnetic kaolinite immobilized chitosan beads for the removal of Pb(II) and Cd(II) ions from an aqueous environment. <i>Carbohydrate Polymers</i> , 2021 , 261, 117892	10.3	16
26	Complex interior and surface modified alginate reinforced reduced graphene oxide-hydroxyapatite hybrids: Removal of toxic azo dyes from the aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2021 , 175, 361-371	7.9	15
25	Phosphate uptake studies on different types of lanthanum-loaded polymeric materials. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 146-154	2.5	14
24	Facile synthesis of Zr incorporated chitosan/gelatin composite for the sequestration of Chromium(VI) and fluoride from water. <i>Chemosphere</i> , 2021 , 262, 128317	8.4	14
23	Removal of toxic ions from aqueous solutions by surfactant-assisted biopolymeric hybrid membrane: Synthesis, characterization and toxic ions removal performance. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103717	6.8	13
22	Encapsulation of metal ions between the biopolymeric layer beads for tunable action on oil particles adsorption from oily wastewater. <i>Journal of Molecular Liquids</i> , 2018 , 255, 429-438	6	13
21	Hexavalent chromium ion and methyl orange dye uptake a silk protein sericin-chitosan conjugate.. <i>RSC Advances</i> , 2018 , 8, 27027-27036	3.7	13
20	In-situ fabrication of cerium incorporated chitosan- β -cyclodextrin microspheres as an effective adsorbent for toxic anions removal. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2019 , 12, 100272	3.3	12
19	Environment responsive Al networked chitosan-gelatin spherical beads for the effective removal of organic pollutants from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3055-3064	7.9	10

18	Mechanistic performance of organic pollutants removal from water using Zn/Al layered double hydroxides imprinted carbon composite. <i>Surfaces and Interfaces</i> , 2020 , 20, 100581	4.1	10
17	Synthesis, characterization, kinetics and modeling studies of new generation pollutant ketoprofen removal in water using copper nanoparticles. <i>Journal of Molecular Liquids</i> , 2021 , 323, 115075	6	9
16	Synthesis of magnetic chitosan biopolymeric spheres and their adsorption performances for PFOA and PFOS from aqueous environment. <i>Carbohydrate Polymers</i> , 2021 , 267, 118165	10.3	8
15	Efficacy of La ³⁺ entrapped chitosan bio-polymeric matrix for the recovery of oil from oil-in-water emulsion. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	7
14	Synthesis and characterization of magnetic chitin composite and its application towards the uptake of Pb(II) and Cd(II) ions from aqueous solution. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, S288-S297	2.5	7
13	Facile Fabrication of Metal Ions-Incorporated Chitosan/ β Cyclodextrin Composites for Effective Removal of Oil from Oily Wastewater. <i>ChemistrySelect</i> , 2017 , 2, 11393-11401	1.8	6
12	Adsorption Behavior of Cutting Oil on Lanthanum Coordinated Chitosan Flakes from Oil-in-Water Emulsion. <i>Journal of Chitin and Chitosan Science</i> , 2015 , 3, 11-20		6
11	Photocatalytic performance of chitosan tethered magnetic FeO-like (3D/2D) hybrid for the dynamic removal of anionic dyes: Degradation and mechanistic pathways. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 2088-2099	7.9	6
10	Al ³⁺ incorporated chitosan-gelatin hybrid microspheres and their use for toxic ions removal: Assessment of its sustainability metrics. <i>Environmental Chemistry and Ecotoxicology</i> , 2020 , 2, 97-106	3.9	5
9	Effective and selective removal of organic pollutants from aqueous solutions using 1D hydroxyapatite-decorated 2D reduced graphene oxide nanocomposite. <i>Journal of Molecular Liquids</i> , 2021 , 331, 115795	6	5
8	Zirconium oxide intercalated sodium montmorillonite scaffold as an effective adsorbent for the elimination of phosphate and hexavalent chromium ions. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106053	6.8	3
7	Effective utilization of the functional groups in chitosan by loading Zn(II) for the removal of nitrate and phosphate. <i>Desalination and Water Treatment</i> , 2014 , 1-10		1
6	Surface grafting with diverse charged chemical groups mitigates calcium phosphate scaling on reverse osmosis membranes during municipal wastewater desalination. <i>Journal of Membrane Science</i> , 2022 , 647, 120310	9.6	1
5	Sustainable Development of Magnetic Chitosan Core-Shell Network for the Removal of Organic Dyes from Aqueous Solutions.. <i>Materials</i> , 2021 , 14,	3.5	1
4	Influence of Carbon Agglomerate Formation on Micropollutants Removal in Combined PAC-Membrane Filtration Processes for Advanced Wastewater Treatment. <i>Water (Switzerland)</i> , 2021 , 13, 3578	3	1
3	Construction of ternary (1D/2D/3D) FeO-supported micro pillared Cu-based MOF on chitosan with improved photocatalytic behavior on removal of paraquat.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	
2	Removal of Chromium Ions from Water Using Eco-friendly Based Adsorbents. <i>Energy, Environment, and Sustainability</i> , 2020 , 445-474	0.8	
1	Application of g-C ₃ N ₄ -based Materials for the Efficient Removal and Degradation of Pollutants in Water and Wastewater Treatment. <i>Energy, Environment, and Sustainability</i> , 2021 , 95-119	0.8	

