

# Sankaran Meenakshi

## List of Publications by Citations

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99  
papers

3,250  
citations

33  
h-index

53  
g-index

99  
ext. papers

3,895  
ext. citations

6.3  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
99	Identification of selective ion-exchange resin for fluoride sorption. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 308, 438-50	9.3	356
98	Removal of Pb(II) and Cd(II) ions from aqueous solution using polyaniline grafted chitosan. <i>Chemical Engineering Journal</i> , <b>2015</b> , 263, 168-177	14.7	229
97	Enhanced fluoride sorption by mechanochemically activated kaolinites. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 164-72	12.8	169
96	Synergistic Effect of Chitosan and Titanium Dioxide on the Removal of Toxic Dyes by the Photodegradation Technique. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 55-63	3.9	106
95	A novel quaternized chitosan-melamine-glutaraldehyde resin for the removal of nitrate and phosphate anions. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 64, 224-32	7.9	79
94	An efficient and regenerable quaternary amine modified chitosan beads for the removal of nitrate and phosphate anions. <i>Journal of Environmental Chemical Engineering</i> , <b>2013</b> , 1, 906-915	6.8	76
93	Preparation and characterization of La(III) encapsulated silica gel/chitosan composite and its metal uptake studies. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 203-204, 29-37	12.8	75
92	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> , <b>2014</b> , 69, 336-43	7.9	71
91	Effective removal of nitrate and phosphate anions from aqueous solutions using functionalised chitosan beads. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 2583-2593		68
90	Removal of phosphate and nitrate ions from aqueous solution using La incorporated chitosan biopolymeric matrix membrane. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 124, 492-504	7.9	66
89	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> , <b>2019</b> , 130, 407-418	7.9	61
88	Chemical modification of chitin with polypyrrole for the uptake of Pb(II) and Cd(II) ions. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 78, 157-64	7.9	61
87	Lanthanum (III) encapsulated chitosan-montmorillonite composite for the adsorptive removal of phosphate ions from aqueous solution. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 112, 284-293	7.9	61
86	One pot synthesis of chitosan grafted quaternized resin for the removal of nitrate and phosphate from aqueous solution. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 1517-1527	7.9	59
85	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> , <b>2019</b> , 132, 289-299	7.9	56
84	Enriched fluoride sorption using chitosan supported mixed metal oxides beads: Synthesis, characterization and mechanism. <i>Journal of Water Process Engineering</i> , <b>2014</b> , 2, 96-104	6.7	50
83	Synthesis, characterization and Cr(VI) uptake study of polyaniline coated chitin. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 235-42	7.9	49

82	Mechanistic performance of polyaniline-substituted hexagonal boron nitride composite as a highly efficient adsorbent for the removal of phosphate, nitrate, and hexavalent chromium ions from an aqueous environment. <i>Applied Surface Science</i> , <b>2020</b> , 511, 145543	6.7	49
81	Synthesis and characterization of ZnAl LDHs/activated carbon composite and its adsorption properties for phosphate and nitrate ions in aqueous medium. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 296, 111766	6	47
80	Synthesis and characterization of La(III) supported carboxymethylcellulose-clay composite for toxic dyes removal: Evaluation of adsorption kinetics, isotherms and thermodynamics. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 161, 1117-1126	7.9	45
79	Enhancement of oil recovery using zirconium-chitosan hybrid composite by adsorptive method. <i>Carbohydrate Polymers</i> , <b>2016</b> , 145, 103-13	10.3	44
78	Exploitation of zinc oxide impregnated chitosan beads for the photocatalytic decolorization of an azo dye. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 900-10	7.9	43
77	Synthesis, characterization and Cr(VI) uptake studies of polypyrrole functionalized chitin. <i>Synthetic Metals</i> , <b>2014</b> , 198, 181-187	3.6	43
76	Removal of hexavalent chromium ions from aqueous solution using chitosan/polypyrrole composite. <i>Desalination and Water Treatment</i> , <b>2015</b> , 56, 1587-1600		42
75	Effective removal of organic pollutants by adsorption onto chitosan supported graphene oxide-hydroxyapatite composite: A novel reusable adsorbent. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 318, 114200	6	42
74	Removal of Toxic Cr(VI) Ions from Aqueous Solution Using Nano-Hydroxyapatite-Based Chitin and Chitosan Hybrid Composites. <i>Adsorption Science and Technology</i> , <b>2010</b> , 28, 49-64	3.6	39
73	Adsorptive performance of lanthanum encapsulated biopolymer chitosan-kaolin clay hybrid composite for the recovery of nitrate and phosphate from water. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 154, 188-197	7.9	37
72	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> , <b>2017</b> , 104, 1586-1595	7.9	35
71	Assembly of nano-sized hydroxyapatite onto graphene oxide sheets via in-situ fabrication method and its prospective application for defluoridation studies. <i>Chemical Engineering Journal</i> , <b>2016</b> , 300, 334-342	14.7	34
70	Effective removal of Cr(VI) and methyl orange from the aqueous environment using two-dimensional (2D) Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanosheets. <i>Ceramics International</i> , <b>2021</b> , 47, 3692-3698	5.1	34
69	Novel one-pot synthesis of dicarboxylic acids mediated alginate-zirconium biopolymeric complex for defluoridation of water. <i>Carbohydrate Polymers</i> , <b>2015</b> , 120, 60-8	10.3	33
68	Visible light-driven photoactivity of zinc oxide impregnated chitosan beads for the detoxification of textile dyes. <i>Applied Catalysis A: General</i> , <b>2015</b> , 503, 124-134	5.1	33
67	Fabrication of sulfur-doped biochar derived from tapioca peel waste with superior adsorption performance for the removal of Malachite green and Rhodamine B dyes. <i>Surfaces and Interfaces</i> , <b>2021</b> , 23, 100920	4.1	33
66	Effective adsorption of hexavalent chromium using biopolymer assisted oxyhydroxide materials from aqueous solution. <i>Reactive and Functional Polymers</i> , <b>2017</b> , 117, 16-24	4.6	30
65	Preparation and metal uptake studies of modified forms of chitin. <i>International Journal of Biological Macromolecules</i> , <b>2010</b> , 47, 583-9	7.9	29

64	Zr ions embedded chitosan-soya bean husk activated bio-char composite beads for the recovery of nitrate and phosphate ions from aqueous solution. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 130, 573-583	7.9	28
63	A dendrimer-like hyper branched chitosan beads toward fluoride adsorption from water. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 78, 280-6	7.9	28
62	Photo-reduction of Cr(VI) using chitosan supported zinc oxide materials. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 1783-1793	7.9	27
61	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> , <b>2018</b> , 112, 294-305	7.9	27
60	Boosted insights of novel accordion-like (2D/2D) hybrid photocatalyst for the removal of cationic dyes: Mechanistic and degradation pathways. <i>Journal of Environmental Management</i> , <b>2020</b> , 273, 111125	7.9	26
59	Two-dimensional (2D) Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanosheets with superior adsorption behavior for phosphate and nitrate ions from the aqueous environment. <i>Ceramics International</i> , <b>2021</b> , 47, 732-739	5.1	26
58	Facile synthesis of chitosan-La-graphite composite and its influence in photocatalytic degradation of methylene blue. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 133, 253-261	7.9	25
57	Removal of nitrate and phosphate anions from aqueous solutions using strong base anion exchange resin. <i>Desalination and Water Treatment</i> , <b>2013</b> , 51, 7145-7156		25
56	Fabrication of La <sup>3+</sup> Impregnated Chitosan/ $\beta$ -Cyclodextrin Biopolymeric Materials for Effective Utilization of Chromate and Fluoride Adsorption in Single Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 723-731	2.8	24
55	Synthesis and Characterization of a Few Amino-Functionalized Copolymeric Resins and Their Environmental Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5677-5684	3.9	24
54	Perceptive removal of toxic azo dyes from water using magnetic Fe <sub>3</sub> O <sub>4</sub> reinforced graphene oxide-carboxymethyl cellulose recyclable composite: Adsorption investigation of parametric studies and their mechanisms. <i>Surfaces and Interfaces</i> , <b>2020</b> , 21, 100648	4.1	23
53	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> , <b>2016</b> , 139, 1339-1350	10.3	23
52	Applications of chitin and chitosan based biomaterials for the adsorptive removal of textile dyes from water - A comprehensive review. <i>Carbohydrate Polymers</i> , <b>2021</b> , 273, 118604	10.3	23
51	Adsorptive removal of anionic azo dyes from effluent water using Zr(IV) encapsulated carboxymethyl cellulose-montmorillonite composite. <i>Environmental Chemistry and Ecotoxicology</i> , <b>2020</b> , 2, 73-82	3.9	22
50	Selective sorption of Fe(III) using modified forms of chitosan beads. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 1858-1865	2.9	21
49	Enhanced and selective fluoride sorption on Ce(III) encapsulated chitosan polymeric matrix. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 1114-1121	2.9	21
48	Designed fabrication of sulfide-rich bi-metallic-assembled MXene layered sheets with dramatically enhanced photocatalytic performance for Rhodamine B removal. <i>Separation and Purification Technology</i> , <b>2021</b> , 258, 118003	8.3	21
47	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> , <b>2019</b> , 141, 1199-1209	7.9	19

46	Defluoridation of water by Tea-bag model using La(3+) modified synthetic resin@chitosan biocomposite. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 91, 1002-9	7.9	19
45	Enhanced photocatalytic response of ZnO embedded chitosan/βcyclodextrin towards the detoxification of Cr(VI) under visible light. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 147, 867-876	7.9	19
44	Hydrothermal synthesis of magnetic iron oxide encrusted hydrocalumite-chitosan composite for defluoridation studies. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 132, 600-605	7.9	18
43	Lanthanum (III) incorporated chitosan-montmorillonite composite as flexible material for adsorptive removal of azo dyes from water. <i>Materials Today: Proceedings</i> , <b>2020</b> , 27, 318-326	1.4	18
42	Decolorization and detoxification of Acid blue 158 dye using cuttlefish bone powder as co-adsorbent via photocatalytic method. <i>Journal of Water Process Engineering</i> , <b>2014</b> , 2, 22-30	6.7	17
41	Preparation of Modified Chitin for the Removal of Chromium(VI). <i>Bioremediation Journal</i> , <b>2010</b> , 14, 208-213		17
40	Fabrication of hybrid chitosan encapsulated magnetic-kaolin beads for adsorption of phosphate and nitrate ions from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 168, 750-759	7.9	17
39	Defluoridation of water using dicarboxylic acids mediated chitosan-polyaniline/zirconium biopolymeric complex. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 85, 16-22	7.9	16
38	In situ fabrication of magnetic particles decorated biopolymeric composite beads for the selective remediation of phosphate and nitrate from aqueous medium. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103530	6.8	16
37	Magnesium ferrite-reinforced polypyrrole hybrids as an effective adsorbent for the removal of toxic ions from aqueous solutions: Preparation, characterization, and adsorption experiments. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124892	12.8	16
36	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> , <b>2021</b> , 175, 361-371	7.9	15
35	Removal of Acid Blue 158 from Aqueous Media by Adsorption Onto Cross-Linked Chitosan Beads. <i>Journal of Chitin and Chitosan Science</i> , <b>2013</b> , 1, 50-58		14
34	Facile synthesis of Zr incorporated chitosan/gelatin composite for the sequestration of Chromium(VI) and fluoride from water. <i>Chemosphere</i> , <b>2021</b> , 262, 128317	8.4	14
33	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> , <b>2020</b> , 8, 103717	6.8	13
32	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> , <b>2018</b> , 255, 429-438	6	13
31	Preparation of novel cobalt ferrite coated-porous carbon composite by simple chemical co-precipitation method and their mechanistic performance. <i>Diamond and Related Materials</i> , <b>2020</b> , 108, 107922	3.5	12
30	Performance of chitosan engraved iron and lanthanum mixed oxyhydroxide for the detoxification of hexavalent chromium. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 130, 491-498	7.9	12
29	In-situ fabrication of cerium incorporated chitosan-βcyclodextrin microspheres as an effective adsorbent for toxic anions removal. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2019</b> , 12, 100272	3.3	12

28	Comparative studies on revival of nitrate and phosphate ions using quaternized corn husk and jackfruit peel. <i>Bioresource Technology Reports</i> , <b>2019</b> , 8, 100331	4.1	11
27	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> , <b>2020</b> , 164, 3055-3064	7.9	10
26	Mechanistic performance of organic pollutants removal from water using Zn/Al layered double hydroxides imprinted carbon composite. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100581	4.1	10
25	Magnetic carbon-biomass from the seeds of <i>Moringa oleifera</i> @MnFe <sub>2</sub> O <sub>4</sub> composite as an effective and recyclable adsorbent for the removal of organic pollutants from water. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 327, 114829	6	10
24	Development of sodium alginate@ZnFe-LDHs functionalized beads: Adsorption properties and mechanistic behaviour of phosphate and nitrate ions from the aqueous environment. <i>Environmental Chemistry and Ecotoxicology</i> , <b>2021</b> , 3, 42-50	3.9	10
23	Chitosan modified zirconium/zinc oxide as a visible light driven photocatalyst for the efficient reduction of hexavalent chromium. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 159, 324-332	7.9	9
22	Encapsulation of ZnFe layered double hydroxide on activated carbon and its liveness in tuning anionic and rhoda dyes through adsorption mechanism. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2020</b> , 15, e2479	1.3	9
21	Performance evaluation of biopolymeric hybrid membrane and their mechanistic approach for the remediation of phosphate and nitrate ions from water. <i>Cellulose</i> , <b>2020</b> , 27, 4539-4554	5.5	8
20	Enhanced removal of phosphate and nitrate ions by a novel Zn Fe LDHs-activated carbon composite. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00154	5.3	7
19	Removal of phosphate and nitrate via a zinc ferrite@activated carbon hybrid composite under batch experiments: Study of isotherm and kinetic equilibriums. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2020</b> , 14, 100378	3.3	7
18	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> , <b>2019</b> , 38, S288-S297	2.5	7
17	Removal of phosphate and nitrate ions from water by amine crosslinked magnetic banana bract activated carbon and its physicochemical performance. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2020</b> , 13, 100294	3.3	6
16	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> , <b>2021</b> , 183, 2088-2099	7.9	6
15	Immobilization of MIL-88(Fe) anchored TiO <sub>2</sub> -chitosan(2D/2D) hybrid nanocomposite for the degradation of organophosphate pesticide: Characterization, mechanism and degradation intermediates. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 406, 124728	12.8	6
14	Equilibrium and Kinetic Studies on the Removal of Basic Violet 10 from Aqueous Solutions Using Activated Carbons Prepared from Industrial Wastes. <i>Bioremediation Journal</i> , <b>2012</b> , 16, 86-96	2.3	5
13	Al <sup>3+</sup> incorporated chitosan-gelatin hybrid microspheres and their use for toxic ions removal: Assessment of its sustainability metrics. <i>Environmental Chemistry and Ecotoxicology</i> , <b>2020</b> , 2, 97-106	3.9	5
12	Removal of nitrate and phosphate ions from aqueous solution using zirconium encapsulated chitosan quaternized beads: Preparation, characterization and mechanistic performance. <i>Results in Surfaces and Interfaces</i> , <b>2021</b> , 3, 100010	0	5
11	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> , <b>2021</b> , 331, 115795	6	5

10	Treatment of emulsified oil using biopolymer assisted materials. <i>Polymer Composites</i> , <b>2018</b> , 39, E261-E270		4
9	Ce(III) networked chitosan/βcyclodextrin beads for the selective removal of toxic dye molecules: Adsorption performance and mechanism. <i>Carbohydrate Polymer Technologies and Applications</i> , <b>2020</b> , 1, 100018	1.7	4
8	In-situ fabrication of ternary (3D/2D/2D) prism-like structures with dramatically enhancement on degradation of profenofos: A systemic study. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 39, 101720	6.7	4
7	Synthesis and characterization of Ce(III) decorated Duolite resin and its removal performance of toxic anions from aqueous solutions. <i>Environmental Chemistry and Ecotoxicology</i> , <b>2021</b> , 3, 8-16	3.9	3
6	Tunable photocatalytic oxidation response of ZnS tethered chitosan-polyaniline composite for the removal of organic pollutants: A mechanistic perspective. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 2553-2559	1.4	2
5	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> , <b>2014</b> , 1-10		1
4	Preparation of Amino Functionalized Polymeric Resins for Selective Removal of Copper Ions. <i>International Journal of the Society of Materials Engineering for Resources</i> , <b>2014</b> , 20, 71-76	0	1
3	Surface activated mesoporous Ag-Fe <sub>3</sub> O <sub>4</sub> tethered chitosan nanomatrix heterojunction photocatalyst for organic dyes degradation: Performance, recycling, and mechanism. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2022</b> , 17, 100654	3.3	0
2	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> , <b>2022</b> , 1	5.1	
1	Technological Advancement in Photocatalytic Degradation of Dyes Using Metal-Doped Biopolymeric Composites Present and Future Perspectives. <i>Energy, Environment, and Sustainability</i> , <b>2021</b> , 205-255	0.8	