

Sankaran Meenakshi

List of Publications by Year in Descending Order

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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.

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	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	
98	Surface activated mesoporous Ag-Fe ₃ O ₄ tethered chitosan nanomatrix heterojunction photocatalyst for organic dyes degradation: Performance, recycling, and mechanism. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022 , 17, 100654	3.3	0
97	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> , 2021 , 408, 124892	12.8	16
96	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> , 2021 , 23, 100920	4.1	33
95	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
94	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> , 2021 , 3, 100010	0	5
93	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
92	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
91	Effective removal of Cr(VI) and methyl orange from the aqueous environment using two-dimensional (2D) Ti ₃ C ₂ T _x MXene nanosheets. <i>Ceramics International</i> , 2021 , 47, 3692-3698	5.1	34
90	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> , 2021 , 39, 101720	6.7	4
89	Two-dimensional (2D) Ti ₃ C ₂ T _x MXene nanosheets with superior adsorption behavior for phosphate and nitrate ions from the aqueous environment. <i>Ceramics International</i> , 2021 , 47, 732-739	5.1	26
88	Magnetic carbon-biomass from the seeds of Moringa oleifera@MnFe ₂ O ₄ composite as an effective and recyclable adsorbent for the removal of organic pollutants from water. <i>Journal of Molecular Liquids</i> , 2021 , 327, 114829	6	10
87	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> , 2021 , 258, 118003	8.3	21
86	Immobilization of MIL-88(Fe) anchored TiO ₂ -chitosan(2D/2D) hybrid nanocomposite for the degradation of organophosphate pesticide: Characterization, mechanism and degradation intermediates. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124728	12.8	6
85	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> , 2021 , 168, 750-759	7.9	17
84	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> , 2021 , 3, 8-16	3.9	3
83	Technological Advancement in Photocatalytic Degradation of Dyes Using Metal-Doped Biopolymeric CompositesPresent and Future Perspectives. <i>Energy, Environment, and Sustainability</i> , 2021 , 205-255	0.8	

82	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
81	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
80	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> , 2021 , 3, 42-50	3.9	10
79	Tunable photocatalytic oxidation response of ZnS tethered chitosan-polyaniline composite for the removal of organic pollutants: A mechanistic perspective. <i>Materials Today: Proceedings</i> , 2021 , 47, 2553-2559	1.4	2
78	Adsorptive removal of anionic azo dyes from effluent water using Zr(IV) encapsulated carboxymethyl cellulose-montmorillonite composite. <i>Environmental Chemistry and Ecotoxicology</i> , 2020 , 2, 73-82	3.9	22
77	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> , 2020 , 159, 324-332	7.9	9
76	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> , 2020 , 161, 1117-1126	7.9	45
75	Performance evaluation of biopolymeric hybrid membrane and their mechanistic approach for the remediation of phosphate and nitrate ions from water. <i>Cellulose</i> , 2020 , 27, 4539-4554	5.5	8
74	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
73	Enhanced removal of phosphate and nitrate ions by a novel Zn Fe LDHs-activated carbon composite. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00154	5.3	7
72	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> , 2020 , 13, 100294	3.3	6
71	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> , 2020 , 511, 145543	6.7	49
70	Ce(III) networked chitosan/β-cyclodextrin beads for the selective removal of toxic dye molecules: Adsorption performance and mechanism. <i>Carbohydrate Polymer Technologies and Applications</i> , 2020 , 1, 100018	1.7	4
69	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> , 2020 , 108, 107922	3.5	12
68	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> , 2020 , 8, 103530	6.8	16
67	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
66	Lanthanum (III) incorporated chitosan-montmorillonite composite as flexible material for adsorptive removal of azo dyes from water. <i>Materials Today: Proceedings</i> , 2020 , 27, 318-326	1.4	18
65	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

64	Effective removal of organic pollutants by adsorption onto chitosan supported graphene oxide-hydroxyapatite composite: A novel reusable adsorbent. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114200	6	42
63	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
62	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
61	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> , 2020 , 273, 111125	7.9	26
60	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> , 2020 , 14, 100378	3.3	7
59	Perceptive removal of toxic azo dyes from water using magnetic Fe ₃ O ₄ reinforced graphene oxide-carboxymethyl cellulose recyclable composite: Adsorption investigation of parametric studies and their mechanisms. <i>Surfaces and Interfaces</i> , 2020 , 21, 100648	4.1	23
58	Encapsulation of Zn/Fe 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> , 2020 , 15, e2479	1.3	9
57	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> , 2020 , 154, 188-197	7.9	37
56	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
55	Hydrothermal synthesis of magnetic iron oxide encrusted hydrocalumite-chitosan composite for defluoridation studies. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 600-605	7.9	18
54	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
53	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
52	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> , 2019 , 130, 573-583	7.9	28
51	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
50	Synthesis and characterization of Zn/Al LDHs/activated carbon composite and its adsorption properties for phosphate and nitrate ions in aqueous medium. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111766	6	47
49	Comparative studies on revival of nitrate and phosphate ions using quaternized corn husk and jackfruit peel. <i>Bioresource Technology Reports</i> , 2019 , 8, 100331	4.1	11
48	Performance of chitosan engraved iron and lanthanum mixed oxyhydroxide for the detoxification of hexavalent chromium. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 491-498	7.9	12
47	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

46	Removal of phosphate and nitrate ions from aqueous solution using La incorporated chitosan biopolymeric matrix membrane. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 492-504	7.9	66
45	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
44	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
43	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
42	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
41	Fabrication of La ³⁺ Impregnated Chitosan/βCyclodextrin Biopolymeric Materials for Effective Utilization of Chromate and Fluoride Adsorption in Single Systems. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 723-731	2.8	24
40	Treatment of emulsified oil using biopolymer assisted materials. <i>Polymer Composites</i> , 2018 , 39, E261-E270	3.0	4
39	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
38	Photo-reduction of Cr(VI) using chitosan supported zinc oxide materials. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1783-1793	7.9	27
37	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> , 2017 , 104, 1517-1527	7.9	59
36	Effective adsorption of hexavalent chromium using biopolymer assisted oxyhydroxide materials from aqueous solution. <i>Reactive and Functional Polymers</i> , 2017 , 117, 16-24	4.6	30
35	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
34	Enhancement of oil recovery using zirconium-chitosan hybrid composite by adsorptive method. <i>Carbohydrate Polymers</i> , 2016 , 145, 103-13	10.3	44
33	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
32	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> , 2016 , 300, 334-342	14.7	34
31	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
30	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
29	A dendrimer-like hyper branched chitosan beads toward fluoride adsorption from water. <i>International Journal of Biological Macromolecules</i> , 2015 , 78, 280-6	7.9	28

28	Novel one-pot synthesis of dicarboxylic acids mediated alginate-zirconium biopolymeric complex for defluoridation of water. <i>Carbohydrate Polymers</i> , 2015 , 120, 60-8	10.3	33
27	Removal of hexavalent chromium ions from aqueous solution using chitosan/polypyrrole composite. <i>Desalination and Water Treatment</i> , 2015 , 56, 1587-1600		42
26	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
25	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
24	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
23	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
22	Synergistic Effect of Chitosan and Titanium Dioxide on the Removal of Toxic Dyes by the Photodegradation Technique. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 55-63	3.9	106
21	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
20	Synthesis, characterization and Cr(VI) uptake studies of polypyrrole functionalized chitin. <i>Synthetic Metals</i> , 2014 , 198, 181-187	3.6	43
19	Effective removal of nitrate and phosphate anions from aqueous solutions using functionalised chitosan beads. <i>Desalination and Water Treatment</i> , 2014 , 52, 2583-2593		68
18	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
17	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
16	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> , 2014 , 2, 22-30	6.7	17
15	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
14	Preparation of Amino Functionalized Polymeric Resins for Selective Removal of Copper Ions. <i>International Journal of the Society of Materials Engineering for Resources</i> , 2014 , 20, 71-76	0	1
13	An efficient and regenerable quaternary amine modified chitosan beads for the removal of nitrate and phosphate anions. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 906-915	6.8	76
12	Removal of nitrate and phosphate anions from aqueous solutions using strong base anion exchange resin. <i>Desalination and Water Treatment</i> , 2013 , 51, 7145-7156		25
11	Removal of Acid Blue 158 from Aqueous Media by Adsorption Onto Cross-Linked Chitosan Beads. <i>Journal of Chitin and Chitosan Science</i> , 2013 , 1, 50-58		14

10	Preparation and characterization of La(III) encapsulated silica gel/chitosan composite and its metal uptake studies. <i>Journal of Hazardous Materials</i> , 2012 , 203-204, 29-37	12.8	75
9	Selective sorption of Fe(III) using modified forms of chitosan beads. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 1858-1865	2.9	21
8	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> , 2012 , 16, 86-96	2.3	5
7	Synthesis and Characterization of a Few Amino-Functionalized Copolymeric Resins and Their Environmental Applications. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5677-5684	3.9	24
6	Removal of Toxic Cr(VI) Ions from Aqueous Solution Using Nano-Hydroxyapatite-Based Chitin and Chitosan Hybrid Composites. <i>Adsorption Science and Technology</i> , 2010 , 28, 49-64	3.6	39
5	Preparation of Modified Chitin for the Removal of Chromium(VI). <i>Bioremediation Journal</i> , 2010 , 14, 208-218		17
4	Preparation and metal uptake studies of modified forms of chitin. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 583-9	7.9	29
3	Enhanced and selective fluoride sorption on Ce(III) encapsulated chitosan polymeric matrix. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1114-1121	2.9	21
2	Enhanced fluoride sorption by mechanochemically activated kaolinites. <i>Journal of Hazardous Materials</i> , 2008 , 153, 164-72	12.8	169
1	Identification of selective ion-exchange resin for fluoride sorption. <i>Journal of Colloid and Interface Science</i> , 2007 , 308, 438-50	9.3	356