

Subbaiah Muthu Prabhu

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.

67

papers

2,133

citations

27

h-index

44

g-index

68

ext. papers

2,935

ext. citations

8.7

avg, IF

5.99

L-index

#	Paper	IF	Citations
67	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	
66	Comparative evaluation of Fe-, Zr-, and La-based metal-organic frameworks derived from recycled PET plastic bottles for arsenate removal.. <i>Chemosphere</i> , 2022 , 133672	8.4	1
65	Boron nitride-based nanomaterials as adsorbents in water: A review. <i>Separation and Purification Technology</i> , 2022 , 288, 120637	8.3	0
64	Review of adsorption-membrane hybrid systems for water and wastewater treatment. <i>Chemosphere</i> , 2022 , 286, 131916	8.4	14
63	Prospects of non-noble metal single atoms embedded in two-dimensional (2D) carbon and non-carbon-based structures in electrocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022 , 467, 214613	23.2	1
62	MXene-based O/Se-rich bimetallic nanocomposites for high performance solid-state symmetric supercapacitors. <i>Journal of Solid State Chemistry</i> , 2021 , 306, 122727	3.3	2
61	Efficient and selective sequestration of perfluorinated compounds and hexavalent chromium ions using a multifunctional spinel matrix decorated carbon backbone N-rich polymer and their mechanistic investigations. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115336	6	1
60	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
59	Synthesis and characterization of defective UiO-66 for efficient co-immobilization of arsenate and fluoride from single/binary solutions. <i>Environmental Pollution</i> , 2021 , 278, 116841	9.3	9
58	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
57	Fabrication of lanthanum methanoate on sucrose-derived biomass carbon nanohybrid for the efficient removal of arsenate from water. <i>Chemosphere</i> , 2021 , 262, 127596	8.4	5
56	Effective removal of Cr(VI) and methyl orange from the aqueous environment using two-dimensional (2D) Ti3C2Tx MXene nanosheets. <i>Ceramics International</i> , 2021 , 47, 3692-3698	5.1	34
55	Two-dimensional (2D) Ti3C2Tx 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
54	Catalytic oxidation of naproxen in cobalt spinel ferrite decorated Ti3C2Tx MXene activated persulfate system: Mechanisms and pathways. <i>Chemical Engineering Journal</i> , 2021 , 407, 127842	14.7	36
53	Synthesis and Modification Strategies of Chitosan and Its Interaction with Metal Ions. <i>Advances in Polymer Science</i> , 2021 , 75-104	1.3	0
52	Recent advances in effective capture of inorganic mercury from aqueous solutions through sulfurized 2D-material-based adsorbents. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18086-18101	13	4
51	Hydrothermal synthesis of hydroxyapatite-reduced graphene oxide (1D-2D) hybrids with enhanced selective adsorption properties for methyl orange and hexavalent chromium from aqueous solutions. <i>Chemosphere</i> , 2021 , 276, 130200	8.4	9

50	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
49	Enhanced sonophotocatalytic degradation of bisphenol A using bimetal sulfide-intercalated MXenes, 2D/2D nanocomposite. <i>Separation and Purification Technology</i> , 2020 , 250, 117178	8.3	21
48	Synthesis and characterization of novel magnetic Zr-MnFe ₂ O ₄ @rGO nanohybrid for efficient removal of PFOA and PFOS from aqueous solutions. <i>Applied Surface Science</i> , 2020 , 528, 146579	6.7	12
47	Accelerated photocatalytic degradation of organic pollutants over carbonate-rich lanthanum-substituted zinc spinel ferrite assembled reduced graphene oxide by ultraviolet (UV)-activated persulfate. <i>Chemical Engineering Journal</i> , 2020 , 393, 124733	14.7	34
46	Self-tuning tetragonal zirconia-based bimetallic nano(hydr)oxides as superior and recyclable adsorbents in arsenic-tolerant environment: Template-free in and ex situ synthetic methods, stability, and mechanisms. <i>Chemical Engineering Journal</i> , 2020 , 390, 124573	14.7	6
45	Design and synthesis of biopolymer-derived porous graphitic carbon covered iron-organic frameworks for depollution of arsenic from waters. <i>Chemosphere</i> , 2020 , 254, 126769	8.4	15
44	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
43	Novel Z-scheme AgPO/FeO-activated biochar photocatalyst with enhanced visible-light catalytic performance toward degradation of bisphenol A. <i>Journal of Hazardous Materials</i> , 2020 , 398, 123025	12.8	48
42	Ethylene glycol-induced metal alkoxides via phase-transfer catalyst as multi-talented adsorbents for boosted adsorption performance of toxic anions/oxyanions from waters. <i>Separation and Purification Technology</i> , 2020 , 235, 116247	8.3	7
41	Lanthanum-substituted bimetallic magnetic materials assembled carboxylate-rich graphene oxide nanohybrids as highly efficient adsorbent for perfluorooctanoic acid adsorption from aqueous solutions. <i>Applied Surface Science</i> , 2020 , 509, 144716	6.7	20
40	Adsorption of selected dyes on Ti ₃ C ₂ T _x MXene and Al-based metal-organic framework. <i>Ceramics International</i> , 2020 , 46, 2960-2968	5.1	58
39	Synthesis of modulator-driven highly stable zirconium-fumarate frameworks and mechanistic investigations of their arsenite and arsenate adsorption from aqueous solutions. <i>CrystEngComm</i> , 2019 , 21, 2320-2332	3.3	20
38	Highly efficient organic dye removal from waters by magnetically recoverable La ₂ O ₂ CO ₃ /ZnFe ₂ O ₄ -reduced graphene oxide nanohybrid. <i>Ceramics International</i> , 2019 , 45, 19247-19256	5.1	36
37	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. <i>Environmental Science & Technology</i> , 2019 , 53, 7265-7287	10.3	73
36	Comprehensive evaluation on removal of lead by graphene oxide and metal organic framework. <i>Chemosphere</i> , 2019 , 231, 82-92	8.4	43
35	Removal of heavy metals from water sources in the developing world using low-cost materials: A review. <i>Chemosphere</i> , 2019 , 229, 142-159	8.4	315
34	Designed synthesis of sulfide-rich bimetallic-assembled graphene oxide sheets as flexible materials and self-tuning adsorption cum oxidation mechanisms of arsenic from water. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12253-12265	13	21
33	Removal of contaminants of emerging concern by metal-organic framework nanoadsorbents: A review. <i>Chemical Engineering Journal</i> , 2019 , 369, 928-946	14.7	192

32	Mono-, Di-, and Tricarboxylic Acid Facilitated Lanthanum-Based Organic Frameworks: Insights into the Structural Stability and Mechanistic Approach for Superior Adsorption of Arsenate from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6917-6928	8.3	57
31	A mechanistic investigation of highly stable nano ZrO ₂ decorated nitrogen-rich azacytosine tethered graphene oxide-based dendrimer for the removal of arsenite from water. <i>Chemical Engineering Journal</i> , 2019 , 370, 1474-1484	14.7	10
30	Removal of selected endocrine-disrupting compounds using Al-based metal organic framework: Performance and mechanism of competitive adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 345-352	6.3	47
29	Comprehensive evaluation of the removal mechanism of carbamazepine and ibuprofen by metal organic framework. <i>Chemosphere</i> , 2019 , 235, 527-537	8.4	44
28	Heterogeneous sonocatalytic degradation of an anionic dye in aqueous solution using a magnetic lanthanum dioxide carbonate-doped zinc ferrite-reduced graphene oxide nanostructure. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 182, 109396	7	25
27	Enhanced adsorption of bisphenol A and sulfamethoxazole by a novel magnetic CuZnFeO-biochar composite. <i>Bioresource Technology</i> , 2019 , 281, 179-187	11	113
26	A Mechanistic Approach for the Synthesis of Carboxylate-Rich Carbonaceous Biomass-Doped Lanthanum-Oxalate Nanocomplex for Arsenate Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6052-6063	8.3	30
25	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
24	Treatment of emulsified oil using biopolymer assisted materials. <i>Polymer Composites</i> , 2018 , 39, E261-E270	3	4
23	Enhanced adsorption of perchlorate by gemini surfactant-modified montmorillonite: Synthesis, characterization and their adsorption mechanism. <i>Applied Clay Science</i> , 2018 , 163, 46-55	5.2	19
22	Synthesis and characterization of graphene oxide-doped nano-hydroxyapatite and its adsorption performance of toxic diazo dyes from aqueous solution. <i>Journal of Molecular Liquids</i> , 2018 , 269, 746-754 ⁶	6	37
21	Heterogeneous activation of persulfate by reduced graphene oxide-elemental silver/magnetite nanohybrids for the oxidative degradation of pharmaceuticals and endocrine disrupting compounds in water. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 91-99	21.8	109
20	Synthesis of sucrose-derived porous carbon-doped Zr _x La _{1-x} OOH materials and their superior performance for the simultaneous immobilization of arsenite and fluoride from binary systems. <i>Chemical Engineering Journal</i> , 2017 , 325, 1-13	14.7	23
19	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
18	Fabrication of Chitosan-Reinforced Zr _x Al _{1-x} OOH Nanocomposites and Their Arsenite and Fluoride Depollution Densities from Single/Binary Systems. <i>ChemistrySelect</i> , 2017 , 2, 6375-6387	1.8	9
17	Azo dye decolorization by ZVI under circum-neutral pH conditions and the characterization of ZVI corrosion products. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 47, 86-93	6.3	18
16	A simple one-pot in-situ method for the synthesis of aluminum and lanthanum binary oxyhydroxides in chitosan template towards defluoridation of water. <i>Chemical Engineering Journal</i> , 2016 , 283, 1081-1089	14.7	27
15	Defluoridation of Water by Graphene Oxide Supported Needle-Like Complex Adsorbents. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016 , 26, 834-844	3.2	6

14	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
13	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
12	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
11	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
10	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
9	Chemistry of defluoridation by one-pot synthesized dicarboxylic acids mediated polyacrylamide-zirconium complex. <i>Chemical Engineering Journal</i> , 2015 , 262, 224-234	14.7	27
8	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
7	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
6	Synthesis of metal ion loaded silica gel/chitosan biocomposite and its fluoride uptake studies from water. <i>Journal of Water Process Engineering</i> , 2014 , 3, 144-150	6.7	26
5	Synthesis of surface coated hydroxyapatite powders for fluoride removal from aqueous solution. <i>Powder Technology</i> , 2014 , 268, 306-315	5.2	43
4	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
3	Effect of metal ions loaded onto iminodiacetic acid functionalized cation exchange resin for selective fluoride removal. <i>Desalination and Water Treatment</i> , 2014 , 52, 2527-2536		12
2	Development of amine functionalized co-polymeric resins for selective fluoride sorption. <i>Journal of Fluorine Chemistry</i> , 2013 , 153, 143-150	2.1	26
1	Oxalic acid-induced assembly of Co _x Ni _{1-x} -bimetallic polyaniline nanocomposite: a bifunctional material for supercapacitor and chromium removal applications. <i>Journal of Nanostructure in Chemistry</i> , 2013 , 1	7.6	0