

Zuo-Yi Xiao

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.

83
papers

1,955
citations

23
h-index

40
g-index

87
ext. papers

2,548
ext. citations

6.3
avg, IF

5.48
L-index

#	Paper	IF	Citations
83	Site-imprinted hollow composites with integrated functions for ultra-efficient capture of hexavalent chromium from water. <i>Separation and Purification Technology</i> , 2022 , 284, 120240	8.3	1
82	Biochar/Mg-Al spinel carboxymethyl cellulose-La hydrogels with cationic polymeric layers for selective phosphate capture. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 736-747	9.3	3
81	Bi-layered hollow amphoteric composites: Rational construction and ultra-efficient sorption performance for anionic Cr(VI) and cationic Cu(II) ions. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 556-567	9.3	4
80	Construction of nickel ferrite nanoparticle-loaded on carboxymethyl cellulose-derived porous carbon for efficient pseudocapacitive energy storage.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 327-335	9.3	2
79	Nickel oxide/sulfide nanoparticle-embedded porous carbon prepared from kelp for excellent asymmetrical supercapacitors and microwave absorbers. <i>Journal of Alloys and Compounds</i> , 2022 , 165721	5.7	1
78	Synergistic preparation of modified alginate aerogel with melamine/chitosan for efficiently selective adsorption of lead ions. <i>Carbohydrate Polymers</i> , 2021 , 256, 117564	10.3	22
77	Promotional effect of embedded Ni NPs in alginate-based carbon toward Pd NPs efficiency for high-concentration p-nitrophenol reduction. <i>International Journal of Biological Macromolecules</i> , 2021 , 173, 160-167	7.9	6
76	Sandwich-like N-C/Cu/N-C porous beads derived from alginate with enhanced catalytic activity and excellent recyclability for 4-nitrophenol reduction. <i>Industrial Crops and Products</i> , 2021 , 164, 113413	5.9	2
75	Multistage reclamation of Co-containing alginate hydrogels as excellent reduction catalyst and subsequent microwave absorber by facile transformation. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 1513-1525	7.9	4
74	Synthesis of nickel sulfide-supported on porous carbon from a natural seaweed-derived polysaccharide for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157123	5.7	15
73	Defect-rich N-doped porous carbon derived from alginate by HNO ₃ etching combined with a hard template method for high-performance supercapacitors. <i>Materials Chemistry and Physics</i> , 2021 , 260, 124121	4.4	9
72	Versatile bimetal sulfides nanoparticles-embedded N-doped hierarchical carbonaceous aerogels (N-NixSy/CoxSy@C) for excellent supercapacitors and microwave absorption. <i>Carbon</i> , 2021 , 179, 111-124	10.4	16
71	Three-dimensional Co ^{II} /SBA-15/alginate hydrogels with excellent recovery and recyclability for activating peroxydisulfate to degrade ciprofloxacin. <i>Microporous and Mesoporous Materials</i> , 2021 , 323, 111259	5.3	1
70	B,N-Codoped Porous C with Controllable N Species as an Electrode Material for Supercapacitors. <i>Inorganic Chemistry</i> , 2021 , 60, 13252-13261	5.1	4
69	A versatile N-doped honeycomb-like carbonaceous aerogels loaded with bimetallic sulfide and oxide for superior electromagnetic wave absorption and supercapacitor applications. <i>Carbon</i> , 2021 , 181, 335-347	10.4	9
68	Facile transformation of carboxymethyl cellulose beads into hollow composites for dye adsorption. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 919-926	7.9	2
67	Magnetic aminated lignin/CeO ₂ /FeO composites with tailored interfacial chemistry and affinity for selective phosphate removal. <i>Science of the Total Environment</i> , 2021 , 796, 148984	10.2	10

66	High-performance asymmetric supercapacitor based on Ni ₃ S ₂ nanoparticles immobilized on carbon nanosheets from sodium alginate. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 161194	5.7	2
65	Modifying alginate beads using polycarboxyl component for enhanced metal ions removal. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 493-501	7.9	10
64	Network interior and surface engineering of alginate-based beads using sorption affinity component for enhanced phosphate capture. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 301-309	7.9	10
63	Facile fabrication of CuS/Carbon composites using lignosulfonate for efficient palladium recovery under strong acidic conditions. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122253	12.8	8
62	Alginate-Derived Porous Carbon Obtained by Nano-ZnO Hard Template-Induced ZnCl ₂ -Activation Method for Enhanced Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 040505	3.9	15
61	Construction of SnMo bimetallic oxide nanoparticle-encapsulated P-doped 3D hierarchical porous carbon through an in-situ reduction and competitive cross-linking strategy for efficient pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2020 , 343, 136106	6.7	8
60	Porous NiCoP@PC hybrid as efficient positive electrodes for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155157	5.7	14
59	Alginate modified graphitic carbon nitride composite hydrogels for efficient removal of Pb(II), Ni(II) and Cu(II) from water. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 1298-1306	7.9	23
58	Upon designing carboxyl methylcellulose and chitosan-derived nanostructured sorbents for efficient removal of Cd(II) and Cr(VI) from water. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 640-650	7.9	19
57	Efficiently selective adsorption of Pb(II) with functionalized alginate-based adsorbent in batch/column systems: Mechanism and application simulation. <i>Journal of Cleaner Production</i> , 2020 , 250, 119585	10.3	36
56	Function integrated chitosan-based beads with throughout sorption sites and inherent diffusion network for efficient phosphate removal. <i>Carbohydrate Polymers</i> , 2020 , 230, 115639	10.3	27
55	Carboxymethyl cellulose-based cryogels for efficient heavy metal capture: Aluminum-mediated assembly process and sorption mechanism. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3275-3286	7.9	17
54	Designing ordered composites with confined CoN/C layers for efficient pollutant degradation: Structure-dependent performance and PMS activation mechanism. <i>Microporous and Mesoporous Materials</i> , 2020 , 293, 109810	5.3	16
53	Dopamine-derived cavities/FeO nanoparticles-encapsulated carbonaceous composites with self-generated three-dimensional network structure as an excellent microwave absorber.. <i>RSC Advances</i> , 2019 , 9, 766-780	3.7	17
52	High-efficacy adsorption of Cr(VI) and anionic dyes onto Cyclodextrin/chitosan/hexamethylenetetramine aerogel beads with task-specific, integrated components. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 268-278	7.9	35
51	Versatile core/shell-like alginate@polyethylenimine composites for efficient removal of multiple heavy metal ions (Pb ²⁺ , Cu ²⁺ , CrO ₄ ²⁻): Batch and fixed-bed studies. <i>Materials Research Bulletin</i> , 2019 , 118, 110526	5.1	21
50	Performance enhanced electromagnetic wave absorber from controllable modification of natural plant fiber.. <i>RSC Advances</i> , 2019 , 9, 16690-16700	3.7	15
49	Inherent N-Doped Honeycomb-like Carbon/Fe ₃ O ₄ Composites with Versatility for Efficient Microwave Absorption and Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9237-9248	8.3	55

48	A high-temperature phosphorization for synthesis of core-shell Ni-NixPy@C nanocomposite-immobilized sponge-like P-doped porous carbon with excellent supercapacitance performance. <i>Electrochimica Acta</i> , 2019 , 309, 197-208	6.7	23
47	Combining mussel and seaweed hydrogel-inspired strategies to design novel ion-imprinted sorbents for ultra-efficient lead removal from water. <i>New Journal of Chemistry</i> , 2019 , 43, 5495-5502	3.6	9
46	Interior engineering of seaweed-derived N-doped versatile carbonaceous beads with Co O for universal organic pollutant degradation.. <i>RSC Advances</i> , 2019 , 9, 5009-5024	3.7	7
45	Circular utilization of Co(II) adsorbed composites for efficient organic pollutants degradation by transforming into Co/N-doped carbonaceous catalyst. <i>Journal of Cleaner Production</i> , 2019 , 236, 117630	10.3	14
44	Construction of strawberry-like Ni3S2@Co9S8 heteronanoparticle-embedded biomass-derived 3D N-doped hierarchical porous carbon for ultrahigh energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17345-17356	13	53
43	Constructing Stacked Structure of S-Doped Carbon Layer-Encapsulated MoO2 NPs with Dominated Dielectric Loss for Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19546-19553	8.3	20
42	Biomass-based carbon beads with a tailored hierarchical structure and surface chemistry for efficient batch and column uptake of methylene blue. <i>Research on Chemical Intermediates</i> , 2018 , 44, 2867-2887	2.8	74
41	Ultrahigh selective and efficient removal of anionic dyes by recyclable polyethylenimine-modified cellulose aerogels in batch and fixed-bed systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 150-160	5.1	27
40	Seaweed-derived multifunctional nitrogen/cobalt-codoped carbonaceous beads for relatively high-efficient peroxymonosulfate activation for organic pollutants degradation. <i>Chemical Engineering Journal</i> , 2018 , 353, 746-759	14.7	50
39	Alginate and polyethylenimine dually mediated synthesis of nanosilver-containing composites for efficient p-nitrophenol reduction. <i>Carbohydrate Polymers</i> , 2018 , 181, 744-751	10.3	29
38	Hydrogels with diffusion-facilitated porous network for improved adsorption performance. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 2384-2393	2.8	12
37	Controllable N-Doped Carbonaceous Composites with Highly Dispersed Ni Nanoparticles for Excellent Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5895-5906	5.6	29
36	Efficient removal of Pb(II), Cr(VI) and organic dyes by polydopamine modified chitosan aerogels. <i>Carbohydrate Polymers</i> , 2018 , 202, 306-314	10.3	121
35	One-step preparation of FexOy/N-GN/CNTs heterojunctions as a peroxymonosulfate activator for relatively highly-efficient methylene blue degradation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1842-1853	11.3	17
34	One-Pot Synthesis of CuS Nanoflower-Decorated Active Carbon Layer for High-Performance Asymmetric Supercapacitors. <i>ChemNanoMat</i> , 2018 , 4, 964-971	3.5	20
33	Significant promotion of porous architecture and magnetic FeO NPs inside honeycomb-like carbonaceous composites for enhanced microwave absorption.. <i>RSC Advances</i> , 2018 , 8, 19011-19023	3.7	34
32	Recyclable Cu(I)/ZrSBA-15 prepared via a mild vapor-reduction method for efficient thiophene removal from modeled oil. <i>RSC Advances</i> , 2017 , 7, 6605-6614	3.7	4
31	Rational Design of Superior Microwave Shielding Composites Employing Synergy of Encapsulating Character of Alginate Hydrogels and Task-Specific Components (Ni NPs, Fe3O4/CNTs). <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5394-5407	8.3	61

30	Hydrophilic, hollow Fe ₃ O ₄ @PDA spheres with a storage cavity for efficient removal of polycyclic structured tetracycline. <i>New Journal of Chemistry</i> , 2017 , 41, 1235-1244	3.6	19
29	Flexible core-shell/bead-like alginate@PEI with exceptional adsorption capacity, recycling performance toward batch and column sorption of Cr(VI). <i>Chemical Engineering Journal</i> , 2017 , 313, 475-486	4.7	185
28	Highly recyclable Ag NPs/alginate composite beads prepared via one-pot encapsulation method for efficient continuous reduction of p-nitrophenol. <i>New Journal of Chemistry</i> , 2017 , 41, 13327-13335	3.6	22
27	Monolithic Cu/C hybrid beads with well-developed porosity for the reduction of 4-nitrophenol to 4-aminophenol. <i>New Journal of Chemistry</i> , 2017 , 41, 13230-13234	3.6	17
26	Facile solvothermal synthesis of novel hetero-structured CoNi ₂ TiO ₄ composites with excellent microwave absorption performance. <i>RSC Advances</i> , 2017 , 7, 43689-43699	3.7	19
25	Solvothermal synthesis of three-dimensional, Fe ₂ O ₃ NPs-embedded CNT/N-doped graphene composites with excellent microwave absorption performance. <i>RSC Advances</i> , 2017 , 7, 45156-45169	3.7	54
24	Interior multi-cavity/surface engineering of alginate hydrogels with polyethylenimine for highly efficient chromium removal in batch and continuous aqueous systems. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17073-17087	13	101
23	Deposition of N-doped carbon layers inside acidic ZrSBA-15: significant enhancement of catalytic performance of Pd NPs toward benzyl alcohol aerobic oxidation. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 84, 180-191	2.3	3
22	Preparation of PEI/CS aerogel beads with a high density of reactive sites for efficient Cr(VI) sorption: batch and column studies. <i>RSC Advances</i> , 2017 , 7, 40227-40236	3.7	25
21	Polyethylenimine-functionalized cellulose aerogel beads for efficient dynamic removal of chromium(VI) from aqueous solution. <i>RSC Advances</i> , 2017 , 7, 54039-54052	3.7	58
20	Efficient batch and column removal of Cr(VI) by carbon beads with developed nano-network. <i>RSC Advances</i> , 2016 , 6, 104897-104910	3.7	26
19	Monolithic magnetic carbonaceous beads for efficient Cr(VI) removal from water. <i>New Journal of Chemistry</i> , 2016 , 40, 1195-1204	3.6	29
18	PVP-assisted synthesis of raspberry-like composite particles. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 228-238	2.3	2
17	Enhanced metal-support interactions between Pd NPs and ZrSBA-15 for efficient aerobic benzyl alcohol oxidation. <i>RSC Advances</i> , 2016 , 6, 70424-70432	3.7	13
16	Multifunctional hollow polydopamine-based composites (Fe ₃ O ₄ /PDA@Ag) for efficient degradation of organic dyes. <i>RSC Advances</i> , 2016 , 6, 47761-47770	3.7	19
15	High-performance electromagnetic wave absorbing composites prepared by one-step transformation of Fe ³⁺ mediated egg-box structure of seaweed. <i>RSC Advances</i> , 2016 , 6, 98128-98140	3.7	24
14	Oxygen-containing/amino groups bifunctionalized SBA-15 toward efficient removal of methylene blue: kinetics, isotherm and mechanism analysis. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 320-331	2.3	10
13	Sodium alginate-based magnetic carbonaceous biosorbents for highly efficient Cr(VI) removal from water. <i>RSC Advances</i> , 2015 , 5, 77932-77941	3.7	22

12	Green synthesis of magnetic core-shell Fe ₃ O ₄ @SN/Ag towards efficient reduction of 4-nitrophenol. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 73, 299-305	2.3	8
11	Interplay between zirconium addition and morphology/catalytic performance of HPW/PEHA/SBA-15 composites towards selective oxidation of benzyl alcohol. <i>Journal of Porous Materials</i> , 2015 , 22, 997-1008	2.4	7
10	PMHS-reduced fabrication of hollow Ag/BiO ₂ composite spheres with developed porosity. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 75, 82-89	2.3	7
9	One-step fabrication of highly stable, superhydrophobic composites from controllable and low-cost PMHS/TEOS sols for efficient oil cleanup. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 155-62	9.3	45
8	Correlation between pore-expanding and dye adsorption of platelet C/SBA-15 prepared by carbonization and oxidation of P123-TMB/SBA-15 composites. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 451-463	2.3	6
7	Synergistic effect of Zr-incorporated framework and subsequent deposition of PEHA towards efficient and reusable HPW/PEHA/ZrSBA-15 composites. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 71, 354-363	2.3	2
6	In situ preparation of uniform Ag NPs onto multifunctional Fe ₃ O ₄ @SN/HPW@CG towards efficient reduction of 4-nitrophenol. <i>New Journal of Chemistry</i> , 2014 , 38, 3999-4006	3.6	26
5	Fabrication of highly-stable Ag/CA@GTA hydrogel beads and their catalytic application. <i>RSC Advances</i> , 2014 , 4, 60460-60466	3.7	17
4	Preparation of superhydrophobic materials for oil/water separation and oil absorption using PMHS/TEOS-derived xerogel and polystyrene. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 72, 385-393	2.3	20
3	Magnetic and Stable H ₃ PW ₁₂ O ₄₀ -Based Core@shell Nanomaterial towards the Esterification of Oleic Acid with Methanol. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 5428-5435	2.3	10
2	Dye adsorption of mesoporous activated carbons produced from NaOH-pretreated rice husks. <i>Bioresource Technology</i> , 2013 , 136, 437-43	11	159
1	Fabrication of polymeric and silica ceramic porous microstructures by perfluoropolyether based soft lithography. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2750	7.1	6