

# Zuo-Yi Xiao

## 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.

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	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> , <b>2017</b> , 313, 475-486	14.7	185
82	Dye adsorption of mesoporous activated carbons produced from NaOH-pretreated rice husks. <i>Bioresource Technology</i> , <b>2013</b> , 136, 437-43	11	159
81	Efficient removal of Pb(II), Cr(VI) and organic dyes by polydopamine modified chitosan aerogels. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 306-314	10.3	121
80	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> , <b>2017</b> , 5, 17073-17087	13	101
79	Rational Design of Superior Microwave Shielding Composites Employing Synergy of Encapsulating Character of Alginate Hydrogels and Task-Specific Components (Ni NPs, Fe <sub>3</sub> O <sub>4</sub> /CNTs). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5394-5407	8.3	61
78	Polyethylenimine-functionalized cellulose aerogel beads for efficient dynamic removal of chromium(VI) from aqueous solution. <i>RSC Advances</i> , <b>2017</b> , 7, 54039-54052	3.7	58
77	Inherent N-Doped Honeycomb-like Carbon/Fe <sub>3</sub> O <sub>4</sub> Composites with Versatility for Efficient Microwave Absorption and Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9237-9248	8.3	55
76	Solvothermal synthesis of three-dimensional, Fe <sub>2</sub> O <sub>3</sub> NPs-embedded CNT/N-doped graphene composites with excellent microwave absorption performance. <i>RSC Advances</i> , <b>2017</b> , 7, 45156-45169	3.7	54
75	Construction of strawberry-like Ni <sub>3</sub> S <sub>2</sub> @Co <sub>9</sub> S <sub>8</sub> heteronanoparticle-embedded biomass-derived 3D N-doped hierarchical porous carbon for ultrahigh energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17345-17356	13	53
74	Seaweed-derived multifunctional nitrogen/cobalt-codoped carbonaceous beads for relatively high-efficient peroxymonosulfate activation for organic pollutants degradation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 353, 746-759	14.7	50
73	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> , <b>2015</b> , 446, 155-62	9.3	45
72	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> , <b>2020</b> , 250, 119585	10.3	36
71	High-efficacy adsorption of Cr(VI) and anionic dyes onto Eyclodextrin/chitosan/hexamethylenetetramine aerogel beads with task-specific, integrated components. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 128, 268-278	7.9	35
70	Significant promotion of porous architecture and magnetic FeO NPs inside honeycomb-like carbonaceous composites for enhanced microwave absorption.. <i>RSC Advances</i> , <b>2018</b> , 8, 19011-19023	3.7	34
69	Monolithic magnetic carbonaceous beads for efficient Cr(VI) removal from water. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 1195-1204	3.6	29
68	Alginate and polyethyleneimine dually mediated synthesis of nanosilver-containing composites for efficient p-nitrophenol reduction. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 744-751	10.3	29
67	Controllable N-Doped Carbonaceous Composites with Highly Dispersed Ni Nanoparticles for Excellent Microwave Absorption. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 5895-5906	5.6	29

66	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> , <b>2018</b> , 555, 150-160	5.1	27
65	Function integrated chitosan-based beads with throughout sorption sites and inherent diffusion network for efficient phosphate removal. <i>Carbohydrate Polymers</i> , <b>2020</b> , 230, 115639	10.3	27
64	Efficient batch and column removal of Cr(VI) by carbon beads with developed nano-network. <i>RSC Advances</i> , <b>2016</b> , 6, 104897-104910	3.7	26
63	In situ preparation of uniform Ag NPs onto multifunctional Fe <sub>3</sub> O <sub>4</sub> @SN/HPW@CG towards efficient reduction of 4-nitrophenol. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 3999-4006	3.6	26
62	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> , <b>2017</b> , 7, 40227-40236	3.7	25
61	High-performance electromagnetic wave absorbing composites prepared by one-step transformation of Fe <sup>3+</sup> mediated egg-box structure of seaweed. <i>RSC Advances</i> , <b>2016</b> , 6, 98128-98140	3.7	24
60	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> , <b>2019</b> , 309, 197-208	6.7	23
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> , <b>2020</b> , 148, 1298-1306	7.9	23
58	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> , <b>2017</b> , 41, 13327-13335	3.6	22
57	Sodium alginate-based magnetic carbonaceous biosorbents for highly efficient Cr(VI) removal from water. <i>RSC Advances</i> , <b>2015</b> , 5, 77932-77941	3.7	22
56	Synergistic preparation of modified alginate aerogel with melamine/chitosan for efficiently selective adsorption of lead ions. <i>Carbohydrate Polymers</i> , <b>2021</b> , 256, 117564	10.3	22
55	Versatile core/shell-like alginate@polyethylenimine composites for efficient removal of multiple heavy metal ions (Pb <sup>2+</sup> , Cu <sup>2+</sup> , CrO <sub>4</sub> <sup>2-</sup> ): Batch and fixed-bed studies. <i>Materials Research Bulletin</i> , <b>2019</b> , 118, 110526	5.1	21
54	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> , <b>2014</b> , 72, 385-393	2.3	20
53	Constructing Stacked Structure of S-Doped Carbon Layer-Encapsulated MoO <sub>2</sub> NPs with Dominated Dielectric Loss for Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19546-19553	8.3	20
52	One-Pot Synthesis of CuS Nanoflower-Decorated Active Carbon Layer for High-Performance Asymmetric Supercapacitors. <i>ChemNanoMat</i> , <b>2018</b> , 4, 964-971	3.5	20
51	Hydrophilic, hollow Fe <sub>3</sub> O <sub>4</sub> @PDA spheres with a storage cavity for efficient removal of polycyclic structured tetracycline. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1235-1244	3.6	19
50	Facile solvothermal synthesis of novel hetero-structured CoNiCuO composites with excellent microwave absorption performance. <i>RSC Advances</i> , <b>2017</b> , 7, 43689-43699	3.7	19
49	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> , <b>2020</b> , 143, 640-650	7.9	19

48	Multifunctional hollow polydopamine-based composites (Fe <sub>3</sub> O <sub>4</sub> /PDA@Ag) for efficient degradation of organic dyes. <i>RSC Advances</i> , <b>2016</b> , 6, 47761-47770	3.7	19
47	Monolithic Cu/C hybrid beads with well-developed porosity for the reduction of 4-nitrophenol to 4-aminophenol. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13230-13234	3.6	17
46	Dopamine-derived cavities/FeO nanoparticles-encapsulated carbonaceous composites with self-generated three-dimensional network structure as an excellent microwave absorber.. <i>RSC Advances</i> , <b>2019</b> , 9, 766-780	3.7	17
45	Fabrication of highly-stable Ag/CA@GTA hydrogel beads and their catalytic application. <i>RSC Advances</i> , <b>2014</b> , 4, 60460-60466	3.7	17
44	Carboxymethyl cellulose-based cryogels for efficient heavy metal capture: Aluminum-mediated assembly process and sorption mechanism. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 3275-3286	7.9	17
43	One-step preparation of Fe <sub>x</sub> O <sub>y</sub> /N-GN/CNTs heterojunctions as a peroxydisulfate activator for relatively highly-efficient methylene blue degradation. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1842-1853	11.3	17
42	Designing ordered composites with confined Co <sub>3</sub> N <sub>4</sub> /C layers for efficient pollutant degradation: Structure-dependent performance and PMS activation mechanism. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 293, 109810	5.3	16
41	Versatile bimetal sulfides nanoparticles-embedded N-doped hierarchical carbonaceous aerogels (N-Ni <sub>x</sub> S <sub>y</sub> /Co <sub>x</sub> S <sub>y</sub> @C) for excellent supercapacitors and microwave absorption. <i>Carbon</i> , <b>2021</b> , 179, 111-124	10.4	16
40	Performance enhanced electromagnetic wave absorber from controllable modification of natural plant fiber.. <i>RSC Advances</i> , <b>2019</b> , 9, 16690-16700	3.7	15
39	Alginate-Derived Porous Carbon Obtained by Nano-ZnO Hard Template-Induced ZnCl <sub>2</sub> -Activation Method for Enhanced Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 040505	3.9	15
38	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> , <b>2021</b> , 853, 157123	5.7	15
37	Porous NiCoP@PI hybrid as efficient positive electrodes for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155157	5.7	14
36	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> , <b>2019</b> , 236, 117630	10.3	14
35	Enhanced metal-support interactions between Pd NPs and ZrSBA-15 for efficient aerobic benzyl alcohol oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 70424-70432	3.7	13
34	Hydrogels with diffusion-facilitated porous network for improved adsorption performance. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 2384-2393	2.8	12
33	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> , <b>2015</b> , 76, 320-331	2.3	10
32	Modifying alginate beads using polycarboxyl component for enhanced metal ions removal. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 158, 493-501	7.9	10
31	Network interior and surface engineering of alginate-based beads using sorption affinity component for enhanced phosphate capture. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 301-309	7.9	10

30	Magnetic and Stable H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> -Based Core@shell Nanomaterial towards the Esterification of Oleic Acid with Methanol. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 5428-5435	2.3	10
29	Magnetic aminated lignin/CeO/FeO composites with tailored interfacial chemistry and affinity for selective phosphate removal. <i>Science of the Total Environment</i> , <b>2021</b> , 796, 148984	10.2	10
28	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> , <b>2019</b> , 43, 5495-5502	3.6	9
27	Defect-rich N-doped porous carbon derived from alginate by HNO <sub>3</sub> etching combined with a hard template method for high-performance supercapacitors. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 260, 124121	4.4	9
26	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> , <b>2021</b> , 181, 335-347	10.4	9
25	Green synthesis of magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @SNAg towards efficient reduction of 4-nitrophenol. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 299-305	2.3	8
24	Facile fabrication of CuS/Carbon composites using lignosulfonate for efficient palladium recovery under strong acidic conditions. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 391, 122253	12.8	8
23	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> , <b>2020</b> , 343, 136106	6.7	8
22	Interior engineering of seaweed-derived N-doped versatile carbonaceous beads with Co O for universal organic pollutant degradation.. <i>RSC Advances</i> , <b>2019</b> , 9, 5009-5024	3.7	7
21	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> , <b>2015</b> , 22, 997-1008	2.4	7
20	PMHS-reduced fabrication of hollow AgBiO <sub>2</sub> composite spheres with developed porosity. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 75, 82-89	2.3	7
19	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> , <b>2014</b> , 70, 451-463	2.3	6
18	Fabrication of polymeric and silica ceramic porous microstructures by perfluoropolyether based soft lithography. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2750	7.1	6
17	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> , <b>2021</b> , 173, 160-167	7.9	6
16	Recyclable Cu(I)/ZrSBA-15 prepared via a mild vapor-reduction method for efficient thiophene removal from modeled oil. <i>RSC Advances</i> , <b>2017</b> , 7, 6605-6614	3.7	4
15	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> , <b>2018</b> , 44, 2867-2887	2.8	4
14	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> , <b>2021</b> , 166, 1513-1525	7.9	4
13	B,N-Codoped Porous C with Controllable N Species as an Electrode Material for Supercapacitors. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 13252-13261	5.1	4

12	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> , <b>2022</b> , 607, 556-567	9.3	4
11	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> , <b>2017</b> , 84, 180-191	2.3	3
10	Biochar/Mg-Al spinel carboxymethyl cellulose-La hydrogels with cationic polymeric layers for selective phosphate capture. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 736-747	9.3	3
9	PVP-assisted synthesis of raspberry-like composite particles. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 78, 228-238	2.3	2
8	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> , <b>2014</b> , 71, 354-363	2.3	2
7	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> , <b>2021</b> , 164, 113413	5.9	2
6	Facile transformation of carboxymethyl cellulose beads into hollow composites for dye adsorption. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 190, 919-926	7.9	2
5	High-performance asymmetric supercapacitor based on Ni <sub>3</sub> S <sub>2</sub> nanoparticles immobilized on carbon nanosheets from sodium alginate. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 885, 161194	5.7	2
4	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> , <b>2022</b> , 622, 327-335	9.3	2
3	Site-imprinted hollow composites with integrated functions for ultra-efficient capture of hexavalent chromium from water. <i>Separation and Purification Technology</i> , <b>2022</b> , 284, 120240	8.3	1
2	Three-dimensional Co <sup>II</sup> /SBA-15/alginate hydrogels with excellent recovery and recyclability for activating peroxymonosulfate to degrade ciprofloxacin. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 323, 111259	5.3	1
1	Nickel oxide/sulfide nanoparticle-embedded porous carbon prepared from kelp for excellent asymmetrical supercapacitors and microwave absorbers. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165721	5.7	1