

Tao Zhang

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.

202
papers

4,715
citations

39
h-index

57
g-index

211
ext. papers

6,032
ext. citations

6.1
avg. IF

6.34
L-index

#	Paper	IF	Citations
202	Design and fabrication of superwetting fiber-based membranes for oil/water separation applications. <i>Chemical Engineering Journal</i> , 2019 , 364, 292-309	14.7	174
201	Enhanced oils and organic solvents absorption by polyurethane foams composites modified with MnO ₂ nanowires. <i>Chemical Engineering Journal</i> , 2017 , 309, 7-14	14.7	146
200	Amine-functionalized magnetic bamboo-based activated carbon adsorptive removal of ciprofloxacin and norfloxacin: A batch and fixed-bed column study. <i>Bioresource Technology</i> , 2018 , 249, 924-934	11	137
199	In situ one-step fabrication of durable superhydrophobic-superoleophilic cellulose/LDH membrane with hierarchical structure for efficiency oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 328, 117-123	14.7	131
198	Recyclable biomass carbon@SiO ₂ @MnO ₂ aerogel with hierarchical structures for fast and selective oil-water separation. <i>Chemical Engineering Journal</i> , 2018 , 351, 622-630	14.7	128
197	Hybrid aerogels derived from banana peel and waste paper for efficient oil absorption and emulsion separation. <i>Journal of Cleaner Production</i> , 2018 , 199, 411-419	10.3	103
196	Synthesis of LiAl Layered Double Hydroxides (LDHs) for Efficient Fluoride Removal. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11490-11498	3.9	103
195	Sustainable, Flexible, and Superhydrophobic Functionalized Cellulose Aerogel for Selective and Versatile Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9984-9994	8.3	92
194	Rapid and sensitive detection of Salmonella typhimurium using aptamer-conjugated carbon dots as fluorescence probe. <i>Analytical Methods</i> , 2015 , 7, 1701-1706	3.2	79
193	Mixed-matrix membranes based on Zn/Ni-ZIF-8-PEBA for high performance CO ₂ separation. <i>Journal of Membrane Science</i> , 2018 , 560, 38-46	9.6	73
192	The synthesis of hierarchical porous Al ₂ O ₃ /acrylic resin composites as durable, efficient and recyclable absorbents for oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 309, 522-531	14.7	72
191	Waterborne acrylic resin modified with glycidyl methacrylate (GMA): Formula optimization and property analysis. <i>Polymer</i> , 2018 , 143, 155-163	3.9	71
190	Equilibrium and kinetics studies of fluoride ions adsorption on CeO ₂ /Al ₂ O ₃ composites pretreated with non-thermal plasma. <i>Chemical Engineering Journal</i> , 2011 , 168, 665-671	14.7	68
189	Preparation of a renewable biomass carbon aerogel reinforced with sisal for oil spillage clean-up: Inspired by green leaves to green Tofu. <i>Food and Bioproducts Processing</i> , 2019 , 114, 154-162	4.9	64
188	Superhydrophobic, ultralight and flexible biomass carbon aerogels derived from sisal fibers for highly efficient oil/water separation. <i>Cellulose</i> , 2018 , 25, 3067-3078	5.5	61
187	A novel hierarchical hollow SiO ₂ @MnO ₂ cubes reinforced elastic polyurethane foam for the highly efficient removal of oil from water. <i>Chemical Engineering Journal</i> , 2017 , 327, 539-547	14.7	61
186	Oil removal from oily water by a low-cost and durable flexible membrane made of layered double hydroxide nanosheet on cellulose support. <i>Journal of Cleaner Production</i> , 2018 , 180, 307-315	10.3	59

185	Preparation of Efficient, Stable, and Reusable Laccase/Cu ₃ (PO ₄) ₂ Hybrid Microspheres Based on Copper Foil for Decoloration of Congo Red. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4468-4477	8.3	58
184	Tunable Dual Temperature-Pressure Sensing and Parameter Self-Separating Based on Ionic Hydrogel via Multisnergistic Network Design. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21049-21057	9.5	58
183	Multifunctional Janus fibrous hybrid membranes with sandwich structure for on-demand personal thermal management. <i>Nano Energy</i> , 2019 , 63, 103808	17.1	57
182	Janus ZnO-cellulose/MnO ₂ hybrid membranes with asymmetric wettability for highly-efficient emulsion separations. <i>Cellulose</i> , 2018 , 25, 5951-5965	5.5	57
181	Enhanced fluoride removal from water by non-thermal plasma modified CeO ₂ /MgFe layered double hydroxides. <i>Applied Clay Science</i> , 2013 , 72, 117-123	5.2	57
180	Activated Carbon Fiber Derived from Sisal with Large Specific Surface Area for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4716-4723	8.3	54
179	Wulff-type boronic acids suspended hierarchical porous polymeric monolith for the specific capture of cis -diol-containing flavone under neutral condition. <i>Chemical Engineering Journal</i> , 2017 , 317, 317-330	14.7	51
178	A facile strategy toward 3D hydrophobic composite resin network decorated with biological ellipsoidal structure rapeseed flower carbon for enhanced oils and organic solvents selective absorption. <i>Chemical Engineering Journal</i> , 2017 , 322, 397-407	14.7	50
177	Synthesis of UV-curing waterborne polyurethane-acrylate coating and its photopolymerization kinetics using FT-IR and photo-DSC methods. <i>Progress in Organic Coatings</i> , 2018 , 122, 10-18	4.8	50
176	High-efficient adsorption of phosphates from water by hierarchical CuAl/biomass carbon fiber layered double hydroxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 314-323	5.1	47
175	Preparation of ternary combined ZnO-Ag ₂ O/porous g-C ₃ N ₄ composite photocatalyst and enhanced visible-light photocatalytic activity for degradation of ciprofloxacin. <i>Chemical Engineering Research and Design</i> , 2016 , 111, 253-261	5.5	47
174	Hierarchically porous bismuth oxide/layered double hydroxide composites: Preparation, characterization and iodine adsorption. <i>Journal of Cleaner Production</i> , 2017 , 144, 220-227	10.3	46
173	Ultralong MnO ₂ Nanowire Enhanced Multiwall Carbon Nanotube Hybrid Membrane with Underwater Superoleophobicity for Efficient Oil-in-Water Emulsions Separation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10439-10447	3.9	46
172	Preparation of hierarchical micro/nanostructured Bi ₂ S ₃ -WO ₃ composites for enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 812-819	5.7	45
171	Recent progress and future prospects of oil-absorbing materials. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1282-1295	3.2	44
170	Superhydrophobic Hierarchical Biomass Carbon Aerogel Assembled with TiO ₂ Nanorods for Selective Immiscible Oil/Water Mixture and Emulsion Separation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14758-14766	3.9	43
169	Fabrication of hydrophobic and oleophilic polyurethane foam sponge modified with hydrophobic Al ₂ O ₃ for oil/water separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 369-375	6.3	42
168	Hierarchical porous molecule/ion imprinted polymers with double specific binding sites: Combination of Pickering HIPEs template and pore-filled strategy. <i>Chemical Engineering Journal</i> , 2016 , 301, 210-221	14.7	42

167	Bio-inspired fabrication of hierarchically porous MgAl composites for enhanced BSA adsorption properties. <i>Microporous and Mesoporous Materials</i> , 2014 , 188, 37-45	5.3	41
166	Ag nanoparticles coated cellulose membrane with high infrared reflection, breathability and antibacterial property for human thermal insulation. <i>Journal of Colloid and Interface Science</i> , 2019 , 535, 363-370	9.3	41
165	Design and preparation of efficient, stable and superhydrophobic copper foam membrane for selective oil absorption and consecutive oil/water separation. <i>Materials and Design</i> , 2018 , 142, 83-92	8.1	40
164	Flexible, versatility and superhydrophobic biomass carbon aerogels derived from corn bracts for efficient oil/water separation. <i>Food and Bioproducts Processing</i> , 2019 , 115, 134-142	4.9	39
163	Synthesis and oil absorption of biomorphic MgAl Layered Double Oxide/acrylic ester resin by suspension polymerization. <i>Chemical Engineering Journal</i> , 2016 , 284, 989-994	14.7	39
162	Controllable fabrication of tendril-inspired hierarchical hybrid membrane for efficient recovering tellurium from photovoltaic waste. <i>Journal of Cleaner Production</i> , 2019 , 230, 966-973	10.3	38
161	Study on the application of waste bricks in emulsified oil-water separation. <i>Journal of Cleaner Production</i> , 2020 , 251, 119609	10.3	37
160	Removal of brilliant green from aqueous solutions based on polyurethane foam adsorbent modified with coal. <i>Journal of Cleaner Production</i> , 2016 , 137, 51-59	10.3	36
159	Sea Urchin-Like MOF-Derived Formation of Porous Cu ₃ P@C as an Efficient and Stable Electrocatalyst for Oxygen Evolution and Hydrogen Evolution Reactions. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900502	4.6	33
158	Enhanced As(V) removal from aqueous solutions by recyclable Cu@MNM composite membranes via synergistic oxidation and absorption. <i>Water Research</i> , 2020 , 168, 115147	12.5	33
157	Non-noble metal@carbon nanosheet derived from exfoliated MOF crystal as highly reactive and stable heterogeneous catalyst. <i>Applied Surface Science</i> , 2018 , 447, 222-234	6.7	32
156	Preparation of highly porous carbon from sustainable cellulose for superior removal performance of tetracycline and sulfamethazine from water. <i>RSC Advances</i> , 2016 , 6, 28023-28033	3.7	32
155	Fabrication of functional biomass carbon aerogels derived from sisal fibers for application in selenium extraction. <i>Food and Bioproducts Processing</i> , 2018 , 111, 93-103	4.9	32
154	Biomimetic fabrication of hierarchically structured LDHs/ZnO composites for the separation of bovine serum albumin. <i>Chemical Engineering Journal</i> , 2013 , 219, 278-285	14.7	32
153	Self-directed hierarchical Cu ₃ (PO ₄) ₂ /Cu-BDC nanosheets array based on copper foam as an efficient and durable electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2019 , 313, 179-188	6.7	30
152	Facile Preparation of an Asymmetric Wettability Janus Cellulose Membrane for Switchable Emulsions Separation and Antibacterial Property. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15002-15011	8.3	30
151	Synthesis of MnO ₂ /poly(n-butylacrylate-co-butyl methacrylate-co-methyl methacrylate) hybrid resins for efficient oils and organic solvents absorption. <i>Journal of Cleaner Production</i> , 2017 , 148, 398-406	10.3	29
150	A facile strategy toward ion-imprinted hierarchical mesoporous material via dual-template method for simultaneous selective extraction of lithium and rubidium. <i>Journal of Cleaner Production</i> , 2018 , 171, 264-274	10.3	29

149	Preparation and characterization of lactate-intercalated CoBe layered double hydroxides and exfoliated nanosheet film with low infrared emissivity. <i>Applied Surface Science</i> , 2012 , 263, 132-138	6.7	29
148	Synthesis and characterization of porous fibers/polyurethane foam composites for selective removal of oils and organic solvents from water. <i>RSC Advances</i> , 2016 , 6, 86510-86519	3.7	29
147	Recovery of tellurium from aqueous solutions by adsorption with magnetic nanoscale zero-valent iron (NZVFe). <i>Hydrometallurgy</i> , 2018 , 177, 1-8	4	28
146	Template-controlled fabrication of hierarchical porous ZnAl composites with tunable micro/nanostructures and chemical compositions. <i>CrystEngComm</i> , 2014 , 16, 1793	3.3	28
145	Three-in-one strategy for selective adsorption and effective separation of cis-diol containing luteolin from peanut shell coarse extract using PU/GO/BA-MOF composite. <i>Chemical Engineering Journal</i> , 2016 , 306, 655-666	14.7	28
144	Covalent laccase immobilization on the surface of poly(vinylidene fluoride) polymer membrane for enhanced biocatalytic removal of dyes pollutants from aqueous environment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 191, 111025	6	28
143	In situ fabrication dynamic carbon fabrics membrane with tunable wettability for selective oil/water separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 61, 188-196	6.3	27
142	Two Are Better than One: Halloysite Nanotubes-Supported Surface Imprinted Nanoparticles Using Synergy of Metal Chelating and Low pK Boronic Acid Monomers for Highly Specific Luteolin Binding under Neutral Condition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33191-33202	9.5	27
141	Facile fabrication of bifunctional ZIF-L/cellulose composite membrane for efficient removal of tellurium and antibacterial effects. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125888	12.8	27
140	A robust Janus fibrous membrane with switchable infrared radiation properties for potential building thermal management applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8344-8352	13	26
139	Fabrication of a novel hierarchical flower-like hollow structure Ag ₂ WO ₄ /WO ₃ photocatalyst and its enhanced visible-light photocatalytic activity. <i>Powder Technology</i> , 2017 , 317, 287-292	5.2	25
138	Highly dispersive NiCoS nanoparticles anchored on nitrogen-doped carbon nanofibers for efficient hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 294-303	9.3	25
137	Bioinspired, direct synthesis of aqueous CdSe quantum dots for high-sensitive copper(II) ion detection. <i>Dalton Transactions</i> , 2013 , 42, 15411-20	4.3	25
136	Multipath fabrication of hierarchical CuAl layered double hydroxide/carbon fiber composites for the degradation of ammonia nitrogen. <i>Journal of Environmental Management</i> , 2018 , 220, 173-182	7.9	25
135	A facile one-pot synthesis of fluorescent carbon dots from degrease cotton for the selective determination of chromium ions in water and soil samples. <i>Journal of Luminescence</i> , 2017 , 188, 230-237	3.8	24
134	Thermal-responsive PNIPAm-acrylic/Ag NRs hybrid hydrogel with atmospheric window full-wavelength thermal management for smart windows. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110336	6.4	24
133	Biomaterial-based flower-like MnO ₂ @ carbon microspheres for rapid adsorption of amoxicillin from wastewater. <i>Journal of Molecular Liquids</i> , 2020 , 309, 113074	6	24
132	Facile one-step fabrication of highly hydrophobic, renewable and mechanically flexible sponge with dynamic coating for efficient oil/water separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 95, 515-524	5.3	23

131	Double-Shelled TiO Hollow Spheres Assembled with TiO Nanosheets. <i>Chemistry - A European Journal</i> , 2017 , 23, 4336-4343	4.8	22
130	Fabrication of fluorescent carbon dots-linked isophorone diisocyanate and Cyclodextrin for detection of chromium ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 179, 163-170	4.4	21
129	In situ fabrication of dynamic nano zero-valent iron/activated carbon nanotubes membranes for tellurium separation. <i>Chemical Engineering Science</i> , 2019 , 205, 278-286	4.4	21
128	Fabrication of Flexible and Superhydrophobic Melamine Sponge with Aligned Copper Nanoparticle Coating for Self-Cleaning and Dual Thermal Management Properties. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4844-4852	3.9	21
127	Laminated Fibrous Membrane Inspired by Polar Bear Pelt for Outdoor Personal Radiation Management. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12285-12293	9.5	20
126	Recognition of Different Rough Surface Based Highly Sensitive Silver Nanowire-Graphene Flexible Hydrogel Skin. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21553-21561	3.9	18
125	Controlled fabrication of functionalized nanoscale zero-valent iron/celluloses composite with silicon as protective layer for arsenic removal. <i>Chemical Engineering Research and Design</i> , 2019 , 151, 242-251	5.5	18
124	Fabrication of multifunctional coating with high luminous transmittance, self-cleaning and radiative cooling performances for energy-efficient windows. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 202, 110125	6.4	17
123	Synthesis of Mn ₂ O ₃ /poly(styrene-co-butyl methacrylate) resin composites and their oil-absorbing properties. <i>RSC Advances</i> , 2015 , 5, 101186-101192	3.7	17
122	Fabrication of recyclable magnetic double-base aerogel with waste bioresource bagasse as the source of fiber for the enhanced removal of chromium ions from aqueous solution. <i>Food and Bioproducts Processing</i> , 2020 , 119, 257-267	4.9	17
121	Structural evolution of hierarchical porous NiO/Al ₂ O ₃ composites and their application for removal of dyes by adsorption. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 41-53	2.8	16
120	Fabrication of biomorphic Al ₂ O ₃ ceramics with hierarchical architectures by templating of cotton fibers. <i>Ceramics International</i> , 2014 , 40, 13703-13707	5.1	16
119	Controllable preparation of FeOOH/CuO@WBC composite based on water bamboo cellulose applied for enhanced arsenic removal. <i>Food and Bioproducts Processing</i> , 2020 , 123, 177-187	4.9	16
118	Fabrication of Cu-Al ₂ O ₃ /ceramic particles by using brick particles as supports for highly-efficient selenium adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105008	6.8	16
117	Facile and Controlled Fabrication of Cu ^{II} Layered Double Hydroxide Nanosheets/Laccase Hybrid Films: A Route to Efficient Biocatalytic Removal of Congo Red from Aqueous Solutions. <i>ACS Applied Nano Materials</i> , 2018 , 1, 284-292	5.6	16
116	Cellulose-derived multifunctional nano-CuO/carbon aerogel composites as a highly efficient oil absorbent. <i>Cellulose</i> , 2019 , 26, 5381-5394	5.5	15
115	Morphology-controlled fabrication of hierarchical LDH/C microspheres derived from rape pollen grain. <i>Applied Clay Science</i> , 2015 , 103, 67-70	5.2	15
114	In-situ fabrication of dynamic and recyclable TiO ₂ coated bacterial cellulose membranes as an efficient hybrid absorbent for tellurium extraction. <i>Cellulose</i> , 2020 , 27, 4591-4608	5.5	15

113	Preparation and application of Mg ₂ Al composite oxide/coconut shell carbon fiber for effective removal of phosphorus from domestic sewage. <i>Food and Bioproducts Processing</i> , 2021 , 126, 293-304	4.9	15
112	Eco-friendly self-crosslinking cellulose membrane with high mechanical properties from renewable resources for oil/water emulsion separation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105857	6.8	15
111	Hierarchical structurized waste brick with opposite wettability for on-demand oil/water separation. <i>Chemosphere</i> , 2020 , 251, 126348	8.4	14
110	Calix[4]arenes functionalized dual-imprinted mesoporous film for the simultaneous selective recovery of lithium and rubidium. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4511	3.1	14
109	Adsorption of fluoride ions onto non-thermal plasma-modified CeO ₂ /Al ₂ O ₃ composites. <i>Desalination and Water Treatment</i> , 2014 , 52, 3367-3376		14
108	Fabrication of core-shell structural SiO ₂ @DNA/DH nanocomposite with low infrared emissivity. <i>Chemical Engineering Journal</i> , 2015 , 266, 199-202	14.7	14
107	Novel paper-templated fabrication of hierarchically porous Ni ₂ Al layered double hydroxides/Al ₂ O ₃ for efficient BSA separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1705-1711	3.5	14
106	Laminated superwetting aerogel/membrane composite with large pore sizes for efficient separation of surfactant-stabilized water-in-oil emulsions. <i>Chemical Engineering Science</i> , 2020 , 215, 115430	4.4	14
105	Preparation of Carbon Nanotubes/Polyurethane Hybrids as a Synergistic Absorbent for Efficient Oil/Water Separation. <i>Fibers and Polymers</i> , 2018 , 19, 2195-2202	2	14
104	Trash to treasure: From construction waste to tellurium adsorbent materials. <i>Journal of Cleaner Production</i> , 2021 , 312, 127752	10.3	14
103	2D metal-organic frameworks-derived preparation of layered CuS@C as an efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 323, 134856	6.7	13
102	Superwetting rape pollen layer for emulsion switchable separation with high flux. <i>Chemical Engineering Science</i> , 2019 , 203, 237-246	4.4	13
101	Mesoporous hollow silicon spheres modified with manganese ion sieve: Preparation and its application for adsorption of lithium and rubidium ions. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4182	3.1	13
100	In situ fabrication of ZnO nanorods/Ag hybrid film with high mid-infrared reflectance for applications in energy efficient windows. <i>Optical Materials</i> , 2019 , 94, 322-329	3.3	12
99	Efficient removal of As(V) via the synergistic effect of oxidation and absorption by FeOOH@MnO@CAM nano-hybrid adsorption membrane. <i>Chemosphere</i> , 2020 , 258, 127329	8.4	12
98	Wearable Janus MnO ₂ hybrid membranes for thermal comfort management applications. <i>Applied Surface Science</i> , 2020 , 509, 145170	6.7	12
97	Controlled and facile synthesis of a self-assembled enzyme-organic catalyst based on flexible metal-coated fiber for an excellent removal of synthetic pollutants from aqueous environment. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 1139-1148	3.3	12
96	In-situ immobilization and pyrolysis of metal-organic framework supported on biomorphic layered double hydroxides as highly active and stable heterogeneous catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 88, 78-88	5.3	12

95	Effective loading of well-doped ZnO/Ag ₃ PO ₄ nanohybrids on magnetic core via one step for promoting its photocatalytic antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125187	5.1	12
94	Bimetallic ions synergistic cross-linking high-strength rapid self-healing antibacterial hydrogel. <i>Polymer Engineering and Science</i> , 2019 , 59, 919-927	2.3	12
93	Evaluation of cavitation erosion resistance of copper alloy in different liquid media. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018 , 69, 917-925	1.6	12
92	Templated fabrication of biomorphic alumina-based ceramics with hierarchical structure. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1337-1341	6	11
91	Synthesis of microcrystalline cellulose/TiO ₂ /fluorine/styrene-acrylate coatings and the application for simulated paper cultural relic protection. <i>Cellulose</i> , 2020 , 27, 6549-6562	5.5	11
90	A novel water-soluble chitosan linked fluorescent carbon dots and isophorone diisocyanate fluorescent material toward detection of chromium(VI). <i>Analytical Methods</i> , 2016 , 8, 8554-8565	3.2	11
89	Fabrication of sandwich-structured cellulose composite membranes for switchable infrared radiation. <i>Cellulose</i> , 2019 , 26, 8745-8757	5.5	11
88	Preparation and Characterization of Micron-Sized PMMA/SiO ₂ Composite Microspheres. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014 , 24, 776-779	3.2	11
87	Acetate-intercalated Ni ^{II} layered double hydroxides with low infrared emissivity: Synthesis, delamination and restacked to form the multilayer films. <i>Applied Surface Science</i> , 2014 , 288, 710-717	6.7	11
86	Investigation of submerged waterjet cavitation through surface property and flow information in ambient water. <i>Applied Surface Science</i> , 2017 , 425, 915-922	6.7	11
85	Flow structures and cavitation in submerged waterjet at high jet pressure. <i>Experimental Thermal and Fluid Science</i> , 2017 , 88, 504-512	3	11
84	Laminated Cellulose Hybrid Membranes with Triple Thermal Insulation Functions for Personal Thermal Management Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15936-15945	8.3	11
83	Construction of sheet-on-sheet hierarchical MoS ₂ /NiS ₂ heterostructures as efficient bifunctional electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2021 , 385, 138438	6.7	11
82	Fe ₃ O ₄ @PVIM@Zn(II) magnetic microspheres for luteolin recognition via combined reflux-precipitation polymerization and metal-ion affinity strategy. <i>New Journal of Chemistry</i> , 2017 , 41, 3308-3319	3.6	10
81	In situ fabrication and infrared emissivity properties of oriented LDHs films on Al substrates. <i>RSC Advances</i> , 2015 , 5, 82415-82420	3.7	10
80	Fabrication of UV-curable waterborne fluorinated polyurethane-acrylate and its application for simulated iron cultural relic protection 2018 , 15, 535-541		10
79	Layered double hydroxide functionalized biomass carbon fiber for highly efficient and recyclable fluoride adsorption. <i>Applied Biological Chemistry</i> , 2019 , 62,	2.9	10
78	Fabrication of hierarchical nanostructured BSA/ZnO hybrid nanoflowers by a self-assembly process. <i>Materials Letters</i> , 2014 , 128, 227-230	3.3	10

77	A novel multi-wall carbon nanotubes/poly(n-butylacrylate-co-butyl methacrylate) hybrid resin: synthesis and oil/organic solvents absorption. <i>Fibers and Polymers</i> , 2017 , 18, 1865-1873	2	10
76	Enhanced adsorption of fluoride from aqueous solutions by hierarchically structured Mg-Al LDHs/Al ₂ O ₃ composites. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 720-725	2.8	10
75	Hierarchical Al ₂ O ₃ /SiO ₂ fiber membrane with reversible wettability for on-demand oil/water separation. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 92-100	2.8	10
74	Preparation of biomass carbon/polyurethane foams for selective oil/water absorption. <i>Journal of Dispersion Science and Technology</i> , 2020 , 41, 1872-1878	1.5	10
73	Rugby-ball like Ag modified zirconium porphyrin metal-organic frameworks nanohybrid for antimicrobial activity: Synergistic effect for significantly enhancing photoactivation capacity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 611, 125888	5.1	10
72	One-pot fabrication of hydrophilic-oleophobic cellulose nanofiber-silane composite aerogels for selectively absorbing water from oil/water mixtures. <i>Cellulose</i> , 2021 , 28, 1443-1453	5.5	9
71	One-pot synthesis of acrylate resin and ZnO nanowires composite for enhancing oil absorption capacity and oil-water separation. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 567-576	8.7	9
70	In-situ growth hierarchical and superhydrophobic flower-like Cu ₃ (PO ₄) ₂ ·2H ₂ O nanosheets based on copper mesh for efficient oil/water separation. <i>Journal of Dispersion Science and Technology</i> , 2019 , 40, 1705-1714	1.5	8
69	Efficient oxidation and absorption of As(III) from aqueous solutions for environmental remediation via CuO@MNW membranes. <i>Separation and Purification Technology</i> , 2020 , 250, 117165	8.3	8
68	Hybridization of Al ₂ O ₃ microspheres and acrylic ester resins as a synergistic absorbent for selective oil and organic solvent absorption. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4244	3.1	8
67	Tunable infrared radiation properties of hybrid films co-assembled with semiconductor quantum chips and exfoliated ultra-thin LDH nanosheets. <i>Journal of Alloys and Compounds</i> , 2018 , 751, 215-223	5.7	8
66	Facile preparation of glucose functionalized multi-wall carbon nanotubes and its application for the removal of cationic pollutants. <i>Materials Letters</i> , 2016 , 183, 9-13	3.3	8
65	Preparation of self-healing acrylic copolymer composite coatings for application in protection of paper cultural relics. <i>Polymer Engineering and Science</i> , 2020 , 60, 288-296	2.3	8
64	Superhydrophobic Stainless-Steel Mesh with Excellent Electrothermal Properties for Efficient Separation of Highly Viscous Water-in-Crude Oil Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17918-17926	3.9	8
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61	Facile preparation of Ag/Ag ₂ WO ₄ /g-C ₃ N ₄ ternary plasmonic photocatalyst and its visible-light photocatalytic activity. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4683	3.1	8
60	Fabrication of dynamic zero-valent iron/MnO ₂ nanowire membrane for efficient and recyclable selenium separation. <i>Separation and Purification Technology</i> , 2020 , 230, 115847	8.3	8

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53	Surface structure regulation of wastewater flocculated sludge for hierarchical superhydrophobic ceramic coating. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106851	6.8	7
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51	Enhancement of dicarboximide fungicide degradation by two bacterial cocultures of <i>Providencia stuartii</i> JD and <i>Brevundimonas naejangsanensis</i> J3. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123888	12.8	7
50	Boronate affinity surface imprinted polymers supported on dendritic fibrous silica for enhanced selective separation of shikimic acid via covalent binding. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116408 ⁶		7
49	Magnetic FeS@Lignin-derived carbon nanocomposites as an efficient adsorbent for multistage collaborative selective recovery of tellurium (IV) from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106135	6.8	7
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47	Multifunctional laminated membranes with adjustable infrared radiation for personal thermal management applications. <i>Cellulose</i> , 2020 , 27, 8471-8483	5.5	6
46	Dual pH- and thermal-responsive nanocomposite hydrogels for controllable delivery of hydrophobic drug baicalein. <i>Polymer International</i> , 2019 , 68, 494-502	3.3	6
45	Aramid nanofiber aerogel membrane extract from waste plastic for efficient separation of surfactant-stabilized oil-in-water emulsions. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106137 ^{6,8}		6
44	3D hierarchical MnO ₂ aerogels with superhydrophobicity for selective oil/water separation. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5073	3.1	5
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41	Optically active amino acid-based polyacetylenes: Effect of tunable helical conformation on infrared emissivity property. <i>Reactive and Functional Polymers</i> , 2014 , 82, 17-24	4.6	5
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38	Preparation of polymeric material containing UV absorber for application in paper-based relics protection. <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 536-545	1.5	4
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31	Fabrication of flexible ceramic membranes derived from hard Si ₃ N ₄ and soft MnO ₂ nanowires. <i>Ceramics International</i> , 2020 , 46, 8478-8482	5.1	3
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28	Assessing Plant Antioxidants by Cellular Antioxidant Activity Assay Based on Microfluidic Cell Chip with Arrayed Microchannels. <i>Chinese Journal of Analytical Chemistry</i> , 2016 , 44, 604-609	1.6	2
27	Helical polysilane coating onto hollow spherical indium oxide: Fabrication, characterization and infrared emissivity property study. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 318-325	5.7	2
26	Enhanced water permeability and rejection of As(III) in groundwater by nanochannels and active center formed in nanofibrillated celluloses UF membranes with ZIF-8. <i>Journal of Membrane Science</i> , 2022 , 646, 120255	9.6	2
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24	Facile Modification of Biochar Derived from Agricultural Straw Waste with Effective Adsorption and Removal of Phosphorus from Domestic Sewage. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 3867-3879	3.2	2

23	Bioinspired like lotus leaf hierarchical micropapillae structure for efficient oil-water separation and antibacterial performance. <i>Journal of Dispersion Science and Technology</i> , 2020 , 41, 1690-1702	1.5	2
22	Simply realizing durable PVDF/candle soot foam with excellent solar absorption for solar-assisted recovery of heavy oil spill. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 128, 187-187	5.3	2
21	Hierarchical Porous BiOCl/LDHs Composites Templated from Cotton Fibers for Efficient Removal of Dyes from Aqueous Solution. <i>Fibers and Polymers</i> , 2018 , 19, 697-702	2	1
20	Facile Fabrication of Hierarchical Flower-Like BSA/Layered Double Hydroxide Hybrids. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016 , 46, 1485-1488		1
19	Biomimetic Fabrication and Infrared Properties of Hierarchically Structured ZnO Derived from Cotton Fibers. <i>Applied Mechanics and Materials</i> , 2013 , 457-458, 288-292	0.3	1
18	Waste-to-resource strategy to fabricate wearable Janus membranes derived from corn bracts for application in personal thermal management. <i>Cellulose</i> , 2022 , 29, 1219-1230	5.5	1
17	Controllable fabrication of ZnO nanorods@cellulose membrane with self-cleaning and passive radiative cooling properties for building energy-saving applications. <i>Cellulose</i> , 2022 , 29, 1981	5.5	1
16	Easily Fabricated Low-Energy Consumption Joule-Heated Superhydrophobic Foam for Fast Cleanup of Viscous Crude Oil Spills. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51652-51660	9.5	1
15	The application of the modified durian biomass fiber as adsorbent for effective removal of ammonia nitrogen. <i>Journal of the Iranian Chemical Society</i> , 1	2	1
14	In Situ Microwave Synthesis of SnO ₂ -Porous Biomass Carbon as Anode Materials for Lithium-Ion Batteries. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100064	3.5	1
13	Fabrication of flexible AgNW/cellulose hybrid film with heat preservation and antibacterial properties for agriculture application. <i>Cellulose</i> , 2021 , 28, 8693-8704	5.5	1
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11	The Application of Eco-Friendly Fe ^{II} /Al Bimetallic Oxide/Biochar Adsorbent Composites with Waste Rice Husk for Removal of Arsenic at Low Concentration. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	1
10	Fabrication of hierarchical porous MgO/cellulose acetate hybrid membrane with improved antifouling properties for tellurium separation. <i>Cellulose</i> , 2021 , 28, 10549	5.5	1
9	Fabrication of MnO ₂ Nanowires@Ag/Cellulose Laminated Membranes with Unidirectional Liquid Penetration for Personal Thermal Management Applications. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 17980-17988	3.9	1
8	Preparation of vinyl acetate/acrylate emulsion modified with carboxymethyl cellulose and fluorine for paper relic protection. <i>Journal of Dispersion Science and Technology</i> , 2020 , 1-10	1.5	0
7	Coupling adsorption and reduction for tellurium recovery by hierarchical porous nanoscale zero-valent iron (NZVI) /LDOs composites. <i>Results in Engineering</i> , 2022 , 13, 100356	3.3	0
6	Boronate affinity-modified magnetic β -cyclodextrin polymer for selective separation and adsorption of shikimic acid. <i>Journal of Materials Science</i> , 2021 , 56, 13043	4.3	0

5	Construction of lignin-based nano-adsorbents for efficient and selective recovery of tellurium (IV) from wastewater. <i>Chemosphere</i> , 2022 , 287, 132058	8.4	o
4	Direct separation of phosphate under highly acidic conditions using MnO ₂ @CeO ₂ nanowires membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 177, 108986	3.7	o
3	A novel flower-like MnO ₂ nanowires for rapid removal of methylene blue. <i>Journal of Dispersion Science and Technology</i> , 2020 , 1-10	1.5	
2	Morphosynthesis of Hierarchically Structured LDHs Using Cellulose Templates. <i>Advanced Materials Research</i> , 2014 , 1044-1045, 168-171	0.5	
1	Functionalized brick slag particles with superhydrophobicity for thermal management applications. <i>Journal of Dispersion Science and Technology</i> , 1-9	1.5	