

Robust Superhydrophobic/Superoleophilic Wrinkled M Composites for Efficient Oil–Water Separation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of Three-Dimensional Graphene-Based Hybrid Materials for Water Purification: A Review. <i>Nanomaterials</i> , 2019, 9, 1123.	1.9	65
2	Computer-aided discovery of connected metal-organic frameworks. <i>Nature Communications</i> , 2019, 10, 3620.	5.8	71
3	Protein corona of metal-organic framework nanoparticles: Study on the adsorption behavior of protein and cell interaction. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 709-718.	3.6	31
4	Functional Metal Organic Framework/SiO ₂ Nanocomposites: From Versatile Synthesis to Advanced Applications. <i>Polymers</i> , 2019, 11, 1823.	2.0	31
5	Robust fluorine-free colorful superhydrophobic PDMS/NH ₂ -MIL-125(Ti)@cotton fabrics for improved ultraviolet resistance and efficient oil/water separation. <i>Cellulose</i> , 2019, 26, 9335-9348.	2.4	40
6	An electrospun fiber based metal-organic framework composite membrane for fast, continuous, and simultaneous removal of insoluble and soluble contaminants from water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22559-22570.	5.2	89
7	Nonflammable and Magnetic Sponge Decorated with Polydimethylsiloxane Brush for Multitasking and Highly Efficient Oil/Water Separation. <i>Advanced Functional Materials</i> , 2019, 29, 1902488.	7.8	162
8	Hydrophobic metal-organic frameworks: Potential toward emerging applications. <i>APL Materials</i> , 2019, 7, 050701.	2.2	40
9	3D Graphene-Based Macrostructures for Water Treatment. <i>Advanced Materials</i> , 2020, 32, e1806843.	11.1	158
10	Development of superhydrophilic Al foil with micropore arrays via mask electrochemical machining and chemical immersion for efficient oil/water separation. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1335-1345.	1.3	6
11	Fabrication of multifunctional textiles with durable antibacterial property and efficient oil-water separation via in situ growth of zeolitic imidazolate framework-8 (ZIF-8) on cotton fabric. <i>Applied Surface Science</i> , 2020, 503, 144079.	3.1	114
12	Dual superlyophobic zeolitic imidazolate framework-8 modified membrane for controllable oil/water emulsion separation. <i>Separation and Purification Technology</i> , 2020, 236, 116273.	3.9	72
13	Micro/Nanostructured Interface for Liquid Manipulation and Its Applications. <i>Small</i> , 2020, 16, e1903849.	5.2	70
14	Hydrophobicity or superhydrophobicity" which is the right choice for stabilizing underwater superoleophilicity?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 97-106.	5.2	20
15	Metal-organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2934-2961.	5.2	170
16	Design and preparation of superwetting polymer surface. <i>Polymer</i> , 2020, 186, 122043.	1.8	6
17	Porous Fluorinated Graphene and ZIF-67 Composites with Hydrophobic-Oleophilic Properties Towards Oil and Organic Solvent Sorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2930-2938.	0.9	12
18	A Mini Review: Application Progress of Magnetic Graphene Three-Dimensional Materials for Water Purification. <i>Frontiers in Chemistry</i> , 2020, 8, 595643.	1.8	9

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19	Hydrophobicity-Adjustable MOF Constructs Superhydrophobic MOF-rGO Aerogel for Efficient Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56435-56444.	4.0	71
20	Designing novel superwetting surfaces for high-efficiency oil-water separation: design principles, opportunities, trends and challenges. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16831-16853.	5.2	194
21	One-Pot Route for Fe@Poly(styrene-co-divinylbenzene) Foam with Robust Physical/Chemical Stability and Remote Magnetic Driven Capacity for Oil Removal. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000160.	1.7	2
22	Graphene oxide/zeolitic imidazolate frameworks-8 coating for cotton fabrics with highly flame retardant, self-cleaning and efficient oil/water separation performances. <i>Materials Chemistry and Physics</i> , 2020, 256, 123656.	2.0	27
23	Ultralight covalent organic framework/graphene aerogels with hierarchical porosity. <i>Nature Communications</i> , 2020, 11, 4712.	5.8	183
24	General Fabrication of 3D Hierarchically Structured Bamboo-like Nitrogen-Doped Carbon Nanotube Arrays on 1D Nitrogen-Doped Carbon Skeletons for Highly Efficient Electromagnetic Wave Energy Attenuation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40692-40701.	4.0	69
25	Graphene Oxide-Supported Lanthanide Metal-Organic Frameworks with Boosted Stabilities and Detection Sensitivities. <i>Analytical Chemistry</i> , 2020, 92, 15550-15557.	3.2	38
26	Hydrophobic porous BN/SiO ₂ @PU as ternary adsorbents for efficient oil/water separation. <i>Journal of Porous Materials</i> , 2020, 27, 1149-1158.	1.3	12
27	Hydrophilicity reversal by post-modification: Hydrophobic zeolite FAU and LTA coatings on stainless-steel-net for oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124936.	2.3	17
28	Ultrafast Fabrication of Metal-Organic Framework-Functionalized Superwetting Membrane for Multichannel Oil/Water Separation and Floating Oil Collection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25512-25520.	4.0	56
29	Fabrication of superhydrophobic self-cleaning manganese dioxide coatings on Mg alloys inspired by lotus flower. <i>Ceramics International</i> , 2020, 46, 20328-20334.	2.3	34
30	Hard-and-Soft Integration Strategy for Preparation of Exceptionally Stable Zr(Hf)-UiO-66 via Thiol-Ene Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28576-28585.	4.0	26
31	A three-dimensional porous MoS ₂ -PVP aerogel as a highly efficient and recyclable sorbent for oils and organic solvents. <i>Materials Advances</i> , 2020, 1, 760-766.	2.6	9
32	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. <i>Frontiers in Chemistry</i> , 2020, 8, 578.	1.8	14
33	Natural sponge-like wood-derived aerogel for solar-assisted adsorption and recovery of high-viscous crude oil. <i>Chemical Engineering Journal</i> , 2020, 400, 125865.	6.6	96
34	A General in Situ Deposition Strategy for Synthesis of Janus Composite Fabrics with Co(CO ₃) _{0.5} OH·0.11H ₂ O Nanoneedles for Oil-Water Separation. <i>ACS Applied Nano Materials</i> , 2020, 3, 3779-3786.	2.4	8
35	Durable multifunctional superhydrophobic sponge for oil/water separation and adsorption of volatile organic compounds. <i>Research on Chemical Intermediates</i> , 2020, 46, 4297-4309.	1.3	15
36	Photothermal hierarchical carbon nanotube/reduced graphene oxide microspherical aerogels with radially orientated microchannels for efficient cleanup of crude oil spills. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 61-71.	5.0	83

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37	Incorporation of UiO-66-NH ₂ into modified PAN nanofibers to enhance adsorption capacity and selectivity for oil removal. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	18
38	A Spiderweb-Like Metal-Organic Framework Multifunctional Foam. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9506-9513.	7.2	41
39	A Spiderweb-Like Metal-Organic Framework Multifunctional Foam. <i>Angewandte Chemie</i> , 2020, 132, 9593-9600.	1.6	3
40	Superhydrophobic Metal-Organic Framework Nanocoating Induced by Metal-Phenolic Networks for Oily Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1831-1839.	3.2	33
41	Graphene oxide modified waste newspaper for removal of heavy metal ions and its application in industrial wastewater. <i>Materials Chemistry and Physics</i> , 2020, 244, 122692.	2.0	31
42	Robust porous organosilica monoliths via a surfactant-free high internal phase emulsion process for efficient oil-water separation. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 338-346.	5.0	27
43	Tuning the Wrinkles in 3D Graphene Architectures for Mass and Electron Transport. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902190.	1.9	5
44	Fabrication of a superhydrophobic surface using a simple <i>in situ</i> growth method of HKUST-1/copper foam with hexadecanethiol modification. <i>New Journal of Chemistry</i> , 2020, 44, 7065-7070.	1.4	11
45	Facile optimization of hierarchical topography and chemistry on magnetically active graphene oxide nanosheets. <i>Chemical Science</i> , 2020, 11, 6556-6566.	3.7	16
46	Graphene and its derivative composite materials with special wettability: Potential application in oil-water separation. <i>Carbon</i> , 2021, 172, 647-681.	5.4	47
47	Fabrication of highly stable metal-organic frameworks and corresponding hydrophobic foam through a reticular chemistry strategy for simultaneous organic micropollutant and insoluble oil removal from wastewater. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3369-3378.	5.2	23
48	Magnetic, superelastic and superhydrophobic porous thermoplastic polyurethane monolith with nano-Fe ₃ O ₄ coating for highly selective and easy-recycling oil/water separation. <i>Applied Surface Science</i> , 2021, 535, 147690.	3.1	42
49	Hydrophobic mixed-metal MOF-derived carbon sponges. <i>Mendeleev Communications</i> , 2021, 31, 91-93.	0.6	10
50	Robust superhydrophobicity: mechanisms and strategies. <i>Chemical Society Reviews</i> , 2021, 50, 4031-4061.	18.7	334
51	Green Method for Fabrication of an Underwater Superoleophobic Phosphor-Copper Mesh and Transportation of Oily Liquids. <i>Langmuir</i> , 2021, 37, 759-768.	1.6	5
52	Welding partially reduced graphene oxides by MOFs into micro-mesoporous hybrids for high-performance oil absorption. <i>RSC Advances</i> , 2021, 11, 30980-30989.	1.7	2
53	In-Situ Growth of MOF for Energy Conversion and Storage Devices. , 2021, , .		1
54	Design of -tolerant and hard™ superhydrophobic coatings to freeze physical deformation. <i>Materials Horizons</i> , 2021, 8, 2717-2725.	6.4	15

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55	Wettability control of metal-organic frameworks. , 2021, , 131-166.		2
56	An environmentally friendly method for fabrication of superhydrophobic "pipe" with loss-free liquid transportation properties. Surface and Coatings Technology, 2021, 407, 126777.	2.2	4
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58	Biomimetic Porous Nanofiber-Based Oil Pump for Spontaneous Oil Directional Transport and Collection. ACS Applied Materials & Interfaces, 2021, 13, 16887-16894.	4.0	2
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60	Durable, magnetic-responsive melamine sponge composite for high efficiency, in situ oil "water separation. Nanotechnology, 2021, 32, 275705.	1.3	14
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63	Facile Construction and Fabrication of a Superhydrophobic Copper Mesh for Ultraefficient Oil/Water Separation. Industrial & Engineering Chemistry Research, 2021, 60, 8139-8146.	1.8	18
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65	One-pot synthesis of fluorine functionalized Zr-MOFs and their in situ growth on sponge for oil absorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 616, 126322.	2.3	15
66	Recent developments of organic solvent resistant materials for membrane separations. Chemosphere, 2021, 271, 129425.	4.2	64
67	Wood Sponge Reinforced with Polyvinyl Alcohol for Sustainable Oil "Water Separation. ACS Omega, 2021, 6, 12866-12876.	1.6	37
68	A review of graphene-oxide/metal "organic framework composites materials: characteristics, preparation and applications. Journal of Porous Materials, 2021, 28, 1837-1865.	1.3	36
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71	Biocarbons as emerging and sustainable hydrophobic/oleophilic sorbent materials for oil/water separation. Sustainable Materials and Technologies, 2021, 28, e00268.	1.7	23
72	Engineering Durable Superhydrophobic Photocatalyst for Oil "Water Separation and Degradation of Chemical Pollutants. ChemistrySelect, 2021, 6, 7271-7277.	0.7	3

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74	A superhydrophobic material based on an industrial solid waste for oil/water separation. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 1771-1777.	0.9	3
75	Efficient and Fast Removal of Oils from Water Surfaces via Highly Oleophilic Polyurethane Composites. <i>Toxics</i> , 2021, 9, 186.	1.6	17
76	Hydrophobicity: a key factor en route to applications of metal-organic frameworks. <i>Trends in Chemistry</i> , 2021, 3, 911-925.	4.4	14
77	2D MOFs-based Materials for the Application of Water Pollutants Removing: Fundamentals and Prospects. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3585-3598.	1.7	9
78	Rapid and Scalable Synthesis of a Vanillin-Based Organogelator and Its Durable Composite for a Comprehensive Remediation of Crude-Oil Spillages. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46803-46812.	4.0	11
79	Small molecules derived Tailored-Superhydrophobicity on fibrous and porous Substrates with superior tolerance. <i>Chemical Engineering Journal</i> , 2022, 430, 132597.	6.6	8
80	Biomass-derived oriented neurovascular network-like superhydrophobic aerogel as robust and recyclable oil droplets captor for versatile oil/water separation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127393.	6.5	64
81	Sensitive and selective detection of chromium (VI) based on two-dimensional luminescence metal organic framework nanosheets via the mechanism integrating chemical oxidation-reduction and inner filter effect. <i>Journal of Hazardous Materials</i> , 2021, 419, 126443.	6.5	44
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83	Steamed bun-derived microporous carbon for oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 629, 127389.	2.3	3
84	Fully organic and biodegradable superhydrophobic sponges derived from natural resources for efficient removal of oil from water. <i>Separation and Purification Technology</i> , 2021, 277, 119411.	3.9	9
85	Recent advances in metal-organic framework membranes for water treatment: A review. <i>Science of the Total Environment</i> , 2021, 800, 149662.	3.9	450
86	Lightweight, amphipathic and fire-resistant prGO/MXene spherical beads for rapid elimination of hazardous chemicals. <i>Journal of Hazardous Materials</i> , 2022, 423, 127069.	6.5	34
87	Preparation of core-shell C@TiO ₂ composite microspheres with wrinkled morphology and its microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1036-1049.	5.0	34
88	Recent progress in metal-organic framework/graphene-derived materials for energy storage and conversion: design, preparation, and application. <i>Chemical Science</i> , 2021, 12, 5737-5766.	3.7	79
89	A sustainable strategy for the remediation of oil/water separation using polybenzoxazine/stearic acid functionalized porous carbon. <i>New Journal of Chemistry</i> , 2021, 45, 17566-17575.	1.4	1
90	Carbon nanostructure-based superhydrophobic surfaces and coatings. <i>Nanotechnology Reviews</i> , 2021, 10, 518-571.	2.6	42

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91	Fabrication of novel superhydrophobic ZIF-8 modified directly Z-scheme bismuth oxyiodide/cadmium sulfide melamine sponge for efficient oil/water separation and visible-light photodegradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124992.	2.3	13
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93	Metal Organic Framework@Polysilsesequioxane Core/Shell-Structured Nanoplatfrom for Drug Delivery. <i>Pharmaceutics</i> , 2020, 12, 98.	2.0	17
94	Hydrophilic and underwater superoleophobic porous graphitic carbon nitride (g-C3N4) membranes with photo-Fenton self-cleaning ability for efficient oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1960-1972.	5.0	55
95	Preparation and adsorption performance of cellulose nanofibrils/polyvinyl alcohol composite gel spheres with millimeter size. <i>Carbohydrate Polymers</i> , 2022, 277, 118850.	5.1	10
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97	Optical-switched proton logic gate: Indocyanine green decorated HSB-W5 MOFs nanosheets. <i>Science China Materials</i> , 0, , 1.	3.5	4
98	Recent advances and challenges of metal-organic framework/graphene-based composites. <i>Composites Part B: Engineering</i> , 2022, 230, 109532.	5.9	66
99	Superhydrophobic aerogel membrane with integrated functions of biopolymers for efficient oil/water separation. <i>Separation and Purification Technology</i> , 2022, 282, 120138.	3.9	35
100	A durable superhydrophobic porous polymer coated sponge for efficient separation of immiscible oil/water mixtures and oil-in-water emulsions. <i>Journal of Hazardous Materials</i> , 2022, 425, 127980.	6.5	41
101	Boosting CO desorption on dual active site electrocatalysts for CO2 reduction to produce tunable syngas. <i>Cell Reports Physical Science</i> , 2022, 3, 100703.	2.8	14
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103	Hierarchical porous metal-organic framework materials for efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2751-2785.	5.2	48
104	Biomass poplar catkin fiber-based superhydrophobic aerogel with tubular-lamellar interweaved neurons-like structure. <i>Journal of Hazardous Materials</i> , 2022, 429, 128290.	6.5	38
105	Shaping of Metal-Organic Frameworks: A Review. <i>Energy & Fuels</i> , 2022, 36, 2927-2944.	2.5	56
106	Nasal Cavity Inspired Micro-Nanostructured Cone Array Tube for Oil Recovery in Wastewater. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5
107	Ultrastable MOF-based foams for versatile applications. <i>Nano Research</i> , 2022, 15, 2961-2970.	5.8	20
108	Controlling Oil Spill Via Rapid and Recyclable Trap Using Biomass Poplar Catkin Fiber-Based Superhydrophobic Aerogel with Tubular-Lamellar Interweaved Neurons-Like Structure. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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109	Facile Fabrication of Highly Hydrophobic Onion-like Candle Soot-Coated Mesh for Durable Oil/Water Separation. <i>Nanomaterials</i> , 2022, 12, 761.	1.9	9
110	MIL-101(Fe) Networks Supported on Fluorinated Graphene Nanosheets as Coatings for Oil Sorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 5857-5867.	2.4	8
111	A Durable Fluorine-Free MOF-Based Self-Cleaning Superhydrophobic Cotton Fabric for Oil-Water Separation. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	17
112	Recycling plastic waste into multifunctional superhydrophobic textiles. <i>Nano Research</i> , 2022, 15, 9921-9925.	5.8	13
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116	Nanocomposites of Graphene Oxide and Metal-Organic Frameworks. <i>Russian Journal of Applied Chemistry</i> , 2021, 94, 1453-1468.	0.1	6
117	Surfactant-modified graphene oxide complex-coating functionalized material with robust switchable oil/water wettability for high-performance on-demand emulsion separation. <i>Surface and Coatings Technology</i> , 2022, 439, 128431.	2.2	12
119	A Review of Metal-Organic Framework-Based Compounds for Environmental Applications. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	15
120	Synthesis of MOF-derived nitrogen-doped carbon microtubules via template self-consumption. <i>Rare Metals</i> , 2022, 41, 2582-2587.	3.6	21
121	A Biomaterial-Based Porous Core-Shell Sorbent for Practical and Efficient Marine Oil Spill Recovery. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	7
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123	A sponge heated by electromagnetic induction and solar energy for quick, efficient, and safe cleanup of high-viscosity crude oil spills. <i>Journal of Hazardous Materials</i> , 2022, 436, 129272.	6.5	15
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125	Superhydrophobic Self-Cleaning Composite of a Metal-Organic Framework with Polypropylene Fabric for Efficient Removal of Oils from Oil-Water Mixtures and Emulsions. <i>ACS Applied Nano Materials</i> , 2022, 5, 10003-10014.	2.4	21
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127	Recent Advances in Multifunctional Mechanical-Chemical Superhydrophobic Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	8

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128	Formation of conductive MOF@Metal oxide micro-nano composites via facile self-assembly for high-performance supercapacitors. <i>Materials Today Chemistry</i> , 2022, 26, 101024.	1.7	5
129	Metal-organic frameworks as advanced sorbents for oil/water separation. <i>Journal of Molecular Liquids</i> , 2022, 363, 119900.	2.3	11
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132	Fluorinated graphene nanosheet supported halloysite nanoarchitectonics: Super-wetting coatings for efficient and recyclable oil sorption. <i>Separation and Purification Technology</i> , 2022, 301, 122049.	3.9	11
133	Robust and durable liquid-repellent surfaces. <i>Chemical Society Reviews</i> , 2022, 51, 8476-8583.	18.7	105
134	Green Synthesis of a Superhydrophobic Porous Organic Polymer for Voc's Removal at High Humidity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
135	Metal-Organic Frameworks and Their Composites for Environmental Applications. <i>Advanced Science</i> , 2022, 9, .	5.6	26
136	Novel Method for Producing Oleophilic Polyurethane Foam to Remove Oil from Open Water. <i>Journal of Polymers and the Environment</i> , 2022, 30, 5012-5023.	2.4	2
137	Bridging hollow carbon nanostructures to hierarchically pomegranate-like microspheres for efficient oil adsorption and catalysis applications. <i>Carbon</i> , 2023, 201, 930-940.	5.4	4
138	One-step preparation of efficient SiO ₂ /PVDF membrane by sol-gel strategy for oil/water separation under harsh environments. <i>Polymer</i> , 2022, 260, 125402.	1.8	8
139	Rapid fabrication of superhydrophobic magnetic melt-blown fiber felt for oil spill recovery and efficient oil-water separation. <i>Separation and Purification Technology</i> , 2023, 306, 122486.	3.9	13
140	Bio-Inspired Eco-Friendly Superhydrophilic/Underwater Superoleophobic Cotton for Oil-Water Separation and Removal of Heavy Metals. <i>Biomimetics</i> , 2022, 7, 177.	1.5	4
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