Cailong Zhou

List of Publications by Year in Descending Order

49 papers	1,964 citations	21 h-index	44 g-index
49 ext. papers	2,456 ext. citations	7.6 avg, IF	5.26 L-index

#	Paper	IF	Citations
49	A superwetting stainless steel mesh with Janus surface charges for efficient emulsion separation.. *Journal of Hazardous Materials*, **2022**, 430, 128378	12.8	0
48	Stainless steel mesh coated with defect engineered ZIF-67 toward pH-switchable wettability and efficient organic liquids separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* , **2022**, 634, 127950	5.1	2
47	A novel Janus sponge fabricated by a green strategy for simultaneous separation of oil/water emulsions and dye contaminants. *Journal of Hazardous Materials*, **2022**, 424, 127543	12.8	8
46	Vinylene Flanked Naphtho[1,2-c:5,6-c?]bis[1,2,5]thiadiazole Polymer for Low-Crystallinity Ambipolar Transistors. *Macromolecules*, **2022**, 55, 331-337	5.5	0
45	Enhancement of compatibility between covalent organic framework and polyamide membrane via an interfacial bridging method: Toward highly efficient water purification. *Journal of Membrane Science*, **2022**, 120590	9.6	3
44	Room-temperature fabrication of superhydrophobic covalent organic framework (COF) decorated cotton fabric for high-flux water-in-oil emulsion separation. *Chemical Communications*, **2021**, 57, 11533-11536	5.8	7
43	Thermo and light-responsive strategies of smart titanium-containing composite material surface for enhancing bacterially anti-adhesive property. *Chemical Engineering Journal*, **2021**, 407, 125783	14.7	51
42	A durable superwetting clusters-inlayed mesh with high efficiency and flux for emulsion separation. *Journal of Hazardous Materials*, **2021**, 403, 123620	12.8	28
41	Tunable electrochemical of electrosynthesized layer-by-layer multilayer films based on multi-walled carbon nanotubes and metal-organic framework as high-performance electrochemical sensor for simultaneous determination cadmium and lead. *Sensors and Actuators B: Chemical*, **2021**,	8.5	13
40	Novel flexible bifunctional amperometric biosensor based on laser engraved porous graphene array electrodes: Highly sensitive electrochemical determination of hydrogen peroxide and glucose. *Journal of Hazardous Materials*, **2021**, 402, 123774	12.8	37
39	Fabrication of superhydrophilic PVDF membranes by one-step modification with eco-friendly phytic acid and polyethyleneimine complex for oil-in-water emulsions separation. *Chemosphere*, **2021**, 264, 128395	8.4	25
38	Stable Zr-UiO-67 constructed through polymeric network assisted post-synthetic modification and its wettability modulation. *Chemical Communications*, **2021**, 57, 11021-11024	5.8	1
37	Superwetting charged copper foams with long permeation channels for ultrafast emulsion separation and surfactant removal. *Journal of Materials Chemistry A*, **2021**, 9, 13170-13181	13	10
36	ZIF-L(Co) coated stainless steel meshes with superwettability for efficient multiphase liquid separation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105325	6.8	3
35	Janus copper mesh with asymmetric wettability for on-demand oil/water separation and direction-independent fog collection. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105899	6.8	5
34	Ultrafast preparation of hydrophobic ZIF-67/copper mesh via electrodeposition and hydrophobization for oil/water separation and dyes adsorption. *Separation and Purification Technology*, **2021**, 272, 118871	8.3	21
33	Hard-and-Soft Integration Strategy for Preparation of Exceptionally Stable Zr(Hf)-UiO-66 via Thiol-Ene Click Chemistry. *ACS Applied Materials & Interfaces*, **2020**, 12, 28576-28585	9.5	17

32	Effect of gradient wettability on capillary imbibition in open semicircular copper channel. *Physics of Fluids*, **2020**, 32, 112004	4.4	3
31	A cross-linked coating decorated mesh prepared by brush-painting method for oil-in-water emulsions separation. *Materials Chemistry and Physics*, **2020**, 242, 122541	4.4	13
30	Natural polyphenol chemistry inspired organic-inorganic composite coating decorated PVDF membrane for oil-in-water emulsions separation. *Materials Research Bulletin*, **2020**, 132, 110995	5.1	17
29	Directed motion of two-component droplets on wedge-shaped composite copper surfaces without back-end pinning. *Microfluidics and Nanofluidics*, **2020**, 24, 1	2.8	1
28	Microwave-Assisted Solvothermal Synthesis of Covalent Organic Frameworks (COFs) with Stable Superhydrophobicity for Oil/Water Separation. *Chemistry - an Asian Journal*, **2020**, 15, 3421-3427	4.5	14
27	Ag nanoparticles-coated cotton fabric for durable antibacterial activity: derived from phytic acid–Ag complex. *Journal of the Textile Institute*, **2020**, 111, 855-861	1.5	11
26	Catalytic activity and stability of Cu modified ZSM-5 zeolite membrane catalysts prepared by metal-organic chemical vapor deposition for trichloroethylene oxidation. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 109, 103-110	5.3	6
25	HKUST-1 MOFs decorated 3D copper foam with superhydrophobicity/superoleophilicity for durable oil/water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 573, 222-229	5.1	53
24	A durable underwater superoleophobic and underoil superhydrophobic fabric for versatile oil/water separation. *Chemical Engineering Journal*, **2019**, 370, 1218-1227	14.7	55
23	Conversion of solid Cu2(OH)2CO3 into HKUST-1 metal-organic frameworks: Toward an under-liquid superamphiphobic surface. *Surface and Coatings Technology*, **2019**, 363, 282-290	4.4	26
22	Gate-Embedding Strategy for Pore Size Manipulation on Stainless Steel Mesh: Toward Highly Efficient Water-in-Oil Nanoemulsions Separation. *Industrial & Engineering Chemistry Research*, **2019**, 58, 15288-15296	3.9	14
21	Strong Near-Infrared Solid Emission and Enhanced N-Type Mobility for Poly(naphthalene Diimide) Vinylene by a Random Polymerization Strategy. *Macromolecules*, **2019**, 52, 8332-8338	5.5	5
20	Nitrogen-doped carbon frameworks decorated with palladium nanoparticles for simultaneous electrochemical voltammetric determination of uric acid and dopamine in the presence of ascorbic acid. *Mikrochimica Acta*, **2019**, 186, 795	5.8	6
19	Hydrothermal synthesis of tungsten doped tin dioxide nanocrystals. *Materials Research Express*, **2018**, 5, 015911	1.7	2
18	Durably Antibacterial and Bacterially Antiadhesive Cotton Fabrics Coated by Cationic Fluorinated Polymers. *ACS Applied Materials & Interfaces*, **2018**, 10, 6124-6136	9.5	257
17	Opposite Superwetting Nickel Meshes for On-Demand and Continuous Oil/Water Separation. *Industrial & Engineering Chemistry Research*, **2018**, 57, 1059-1070	3.9	44
16	ZrO2-coated stainless steel mesh with underwater superoleophobicity by electrophoretic deposition for durable oil/water separation. *Journal of Sol-Gel Science and Technology*, **2018**, 85, 23-30	2.3	13
15	Facile generation of robust POSS-based superhydrophobic fabrics via thiol-ene click chemistry. *Chemical Engineering Journal*, **2018**, 332, 150-159	14.7	91

14	Fog collection on a conical copper wire: effect of fog flow velocity and surface morphology. *Micro and Nano Letters*, **2018**, 13, 1068-1070	0.9	3
13	A self-cleaning titanium mesh with underwater superoleophobicity for oil/water separation and aqueous pollutant degradation. *Surface and Coatings Technology*, **2017**, 313, 55-62	4.4	33
12	Nature-Inspired Strategy toward Superhydrophobic Fabrics for Versatile Oil/Water Separation. *ACS Applied Materials & Interfaces*, **2017**, 9, 9184-9194	9.5	247
11	Durable underwater superoleophobic PDDA/halloysite nanotubes decorated stainless steel mesh for efficient oil□water separation. *Applied Surface Science*, **2017**, 416, 344-352	6.7	45
10	Droplet Motion on a Shape Gradient Surface. *Langmuir*, **2017**, 33, 4172-4177	4	83
9	Underwater superoleophobic mesh based on BiVO 4 nanoparticles with sunlight-driven self-cleaning property for oil/water separation. *Chemical Engineering Journal*, **2017**, 320, 342-351	14.7	107
8	Inspired by Stenocara Beetles: From Water Collection to High-Efficiency Water-in-Oil Emulsion Separation. *ACS Nano*, **2017**, 11, 760-769	16.7	196
7	Matchstick-Like Cu2S@CuxO Nanowire Film: Transition of Superhydrophilicity to Superhydrophobicity. *Journal of Physical Chemistry C*, **2017**, 121, 19716-19726	3.8	51
6	Superhydrophobic Cu2S@Cu2O film on copper surface fabricated by a facile chemical bath deposition method and its application in oil-water separation. *Applied Surface Science*, **2017**, 396, 566-573	6.7	54
5	Preparation of CuWO4@Cu2O film on copper mesh by anodization for oil/water separation and aqueous pollutant degradation. *Chemical Engineering Journal*, **2017**, 307, 803-811	14.7	86
4	Superhydrophilic and underwater superoleophobic titania nanowires surface for oil repellency and oil/water separation. *Chemical Engineering Journal*, **2016**, 301, 249-256	14.7	142
3	A novel superhydrophilic-underwater superoleophobic Cu 2 S coated copper mesh for efficient oil-water separation. *Materials Letters*, **2016**, 182, 68-71	3.3	33
2	CuC2O4 nanoribbons on copper mesh with underwater superoleophobicity for oil/water separation. *Materials Letters*, **2016**, 185, 403-406	3.3	14
1	High-Performance Freshwater Harvesting System by Coupling Solar Desalination and Fog Collection with Hierarchical Porous Microneedle Arrays. *Advanced Functional Materials*,2113264	15.6	8