

# Shouping Xu

## List of Publications by Year in descending order

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38  
papers

1,243  
citations

430843

18  
h-index

361001

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inspired by <i>Stenocara</i> Beetles: From Water Collection to High-Efficiency Water-in-Oil Emulsion Separation. <i>ACS Nano</i> , 2017, 11, 760-769.	14.6	259
2	Facile generation of robust POSS-based superhydrophobic fabrics via thiol-ene click chemistry. <i>Chemical Engineering Journal</i> , 2018, 332, 150-159.	12.7	116
3	Droplet Motion on a Shape Gradient Surface. <i>Langmuir</i> , 2017, 33, 4172-4177.	3.5	100
4	Novel pH-Responsive Smart Fabric: From Switchable Wettability to Controllable On-Demand Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 368-376.	6.7	74
5	Matchstick-Like Cu <sub>2</sub> S@Cu <sub>x</sub> O Nanowire Film: Transition of Superhydrophilicity to Superhydrophobicity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19716-19726.	3.1	63
6	A durable superwetting clusters-inlayed mesh with high efficiency and flux for emulsion separation. <i>Journal of Hazardous Materials</i> , 2021, 403, 123620.	12.4	57
7	Enhancement of capillary and thermal performance of grooved copper heat pipe by gradient wettability surface. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 586-591.	4.8	50
8	Allylated chitosan-poly(N-isopropylacrylamide) hydrogel based on a functionalized double network for controlled drug release. <i>Carbohydrate Polymers</i> , 2019, 214, 8-14.	10.2	43
9	Ca <sup>2+</sup> , redox, and thermoresponsive supramolecular hydrogel with programmed quadruple shape memory effect. <i>Chemical Communications</i> , 2018, 54, 8084-8087.	4.1	40
10	Superhydrophobic/superoleophilic stainless steel meshes by spray-coating of a POSS hybrid acrylic polymer for oil/water separation. <i>Journal of Materials Science</i> , 2018, 53, 6403-6413.	3.7	37
11	A facile preparation of superhydrophobic halloysite-based meshes for efficient oil/water separation. <i>Applied Clay Science</i> , 2018, 156, 195-201.	5.2	36
12	Two-Step Approach for Fabrication of Durable Superamphiphobic Fabrics for Self-Cleaning, Antifouling, and On-Demand Oil/Water Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 5490-5500.	3.7	36
13	Superwetting charged copper foams with long permeation channels for ultrafast emulsion separation and surfactant removal. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13170-13181.	10.3	34
14	A facile one-step fabrication of robust superhydrophobic/superoleophilic cotton fabric using a crosslinkable POSS-containing fluorinated copolymer. <i>Progress in Organic Coatings</i> , 2016, 101, 522-529.	3.9	28
15	Janus sand filter with excellent demulsification ability in separation of surfactant-stabilized oil/water emulsions: An experimental and molecular dynamics simulation study. <i>Journal of Hazardous Materials</i> , 2021, 418, 126346.	12.4	27
16	Preparation and characterization of gradient wettability surface depending on controlling Cu(OH) <sub>2</sub> nanoribbon arrays growth on copper substrate. <i>Applied Surface Science</i> , 2012, 259, 142-146.	6.1	25
17	Polymer-infiltrated approach to produce robust and easy repairable superhydrophobic mesh for high-efficiency oil/water separation. <i>Journal of Materials Science</i> , 2018, 53, 10554-10568.	3.7	23
18	Enhanced Movement of Two-Component Droplets on a Wedge-Shaped Ag/Cu Surface by a Wettability Gradient. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15857-15865.	8.0	20

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19	A superwetting stainless steel mesh with Janus surface charges for efficient emulsion separation. <i>Journal of Hazardous Materials</i> , 2022, 430, 128378.	12.4	18
20	Improved performance of aluminum pigments encapsulated in hybrid inorganic-organic films. <i>Particuology</i> , 2015, 19, 93-98.	3.6	17
21	A 3D Janus stainless steel mesh bed with high efficiency and flux for on-demand oil-in-water and water-in-oil emulsion separation. <i>Separation and Purification Technology</i> , 2022, 289, 120779.	7.9	15
22	Synthesis and drug-release studies of low-fouling zwitterionic hydrogels with enhanced mechanical strength. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	14
23	Preparation and characterization of ambient-temperature self-crosslinkable water-soluble acrylic resin for PE film ink. <i>Journal of Coatings Technology Research</i> , 2016, 13, 73-80.	2.5	14
24	Dissipative particle dynamic simulation on the assembly and release of siRNA/polymer/gold nanoparticles based polyplex. <i>AIChE Journal</i> , 2018, 64, 810-821.	3.6	13
25	A superhydrophobic polyacrylate film with good durability fabricated via spray coating. <i>Journal of Materials Science</i> , 2018, 53, 15390-15400.	3.7	12
26	Aluminum pigments encapsulated with hybrid silica film with carboxyl groups and their stability and dispersibility in aqueous media. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1101-1106.	1.7	10
27	Crosslinked superhydrophobic films fabricated by simply casting poly(methyl methacrylate-butyl) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Surface Science</i> , 2015, 339, 109-115.	6.1	9
28	A conductive, antibacterial, and antifouling hydrogel based on zwitterion. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51648.	2.6	9
29	Thermoresponsive/low-fouling Zwitterionic hydrogel for controlled drug release. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	7
30	Synthesis and self-assembly behavior of polyhedral oligomeric silsesquioxane-based triblock copolymers in selective solvents by dissipative particle dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4074-4082.	2.8	6
31	Facile fabrication of an F-POSS polymer-based liquid-repellent Cu mesh with excellent durability and self-cleaning performance. <i>Soft Matter</i> , 2019, 15, 9727-9732.	2.7	6
32	Fog collection on a conical copper wire: effect of fog flow velocity and surface morphology. <i>Micro and Nano Letters</i> , 2018, 13, 1068-1070.	1.3	5
33	Fast near infrared light response hydrogel as medical dressing for wound healing. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49309.	2.6	5
34	Preparation and characterization of porous titanium dioxide sulfonated polystyrene composite microspheres with amphiphilicity. <i>Journal of Applied Polymer Science</i> , 2013, 129, 3482-3489.	2.6	3
35	Preparation of antimicrobial polycarboxybetaine-based hydrogels for studies of drug loading and release. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	3
36	Synthesis and properties of the antibacterial hydrogels with enhanced mechanical strengths. <i>Colloid and Polymer Science</i> , 2015, 293, 1705-1712.	2.1	3

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37	Opposite superwetting magnetic stainless-steel mesh for multiple types of oil/water separation. <i>Materials Research Express</i> , 2019, 6, 105548.	1.6	3
38	Directed motion of two-component droplets on wedge-shaped composite copper surfaces without back-end pinning. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	3