Yan Zhao

List of Publications by Year
in descending order

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41 papers	1,776 citations	361045 20 h-index	276539 41 g-index
41 all docs	41 docs citations	41 times ranked	1717 citing authors

#	Article	IF	Citations
1	A Superamphiphobic Coating with an Ammoniaâ€Triggered Transition to Superhydrophilic and Superoleophobic for Oilâ€“Water Separation. Angewandte Chemie - International Edition, 2015, 54, 4527-4530.	7.2	301
2	A Waterborne Coating System for Preparing Robust, Selfâ€healing, Superamphiphobic Surfaces. Advanced Functional Materials, 2017, 27, 1604261.	7.8	273
3	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oilâ€“water separation ability. Journal of Materials Chemistry A, 2019, 7, 2122-2128.	5.2	205
4	Fluorine-Free Superhydrophobic Coatings with pH-induced Wettability Transition for Controllable Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2016, 8, 5661-5667.	4.0	195
5	A Durable, Flexible, Largeâ€Area, Flameâ€Retardant, Early Fire Warning Sensor with Builtâ€In Patterned Electrodes. Small Methods, 2021, 5, e2001040.	4.6	67
6	Durable Superamphiphobic and Photocatalytic Fabrics: Tackling the Loss of Super-Non-Wettability Due to Surface Organic Contamination. ACS Applied Materials & Interfaces, 2019, 11, 35327-35332.	4.0	51
7	Fabricating a pH-responsive membrane through interfacial in-situ assembly of microgels for water gating and self-cleaning. Journal of Membrane Science, 2019, 579, 230-239.	4.1	51
8	Recent advances in lithium-ion battery separators with reversible/irreversible thermal shutdown capability. Energy Storage Materials, 2021, 43, 143-157.	9.5	39
9	Recent Development in Durable Superâ€Liquidâ€Repellent Fabrics. Advanced Materials Interfaces, 2016, 3, 1600402.	1.9	38
10	Recent Advances in Sensors for Fire Detection. Sensors, 2022, 22, 3310.	2.1	36
11	Coreâ€“Shell Structured Nanofibers for Lithium Ion Battery Separator with Wide Shutdown Temperature Window and Stable Electrochemical Performance. ACS Applied Polymer Materials, 2020, 2, 1989-1996.	2.0	31
12	Randomly heterogeneous oleophobic/pH-responsive polymer coatings with reversible wettability transition for multifunctional fabrics and controllable oilâ€“water separation. Journal of Colloid and Interface Science, 2021, 594, 122-130.	5.0	31
13	Underwater Mechanically Tough, Elastic, Superhydrophilic Cellulose Nanofiber-Based Aerogels for Water-in-Oil Emulsion Separation and Solar Steam Generation. ACS Applied Nano Materials, 2021, 4, 8979-8989.	2.4	31
14	Durable superhydrophobic cotton fabrics prepared by surface-initiated electrochemically mediated ATRP of polyhedral vinylsilsesquioxane and subsequent fluorination via thiol-Michael addition reaction. Journal of Colloid and Interface Science, 2021, 593, 79-88.	5.0	26
15	Robust multifunctional superhydrophobic, photocatalytic and conductive fabrics with electro-/photo-thermal self-healing ability. Journal of Colloid and Interface Science, 2022, 614, 1-11.	5.0	25
16	Zwitterionic Polymerâ€Grafted Superhydrophilic and Superoleophobic Silk Fabrics for Antiâ€Oil Applications. Macromolecular Rapid Communications, 2020, 41, e2000162.	2.0	24
17	One-pot fabrication of hydrophilic-oleophobic cellulose nanofiber-silane composite aerogels for selectively absorbing water from oilâ€“water mixtures. Cellulose, 2021, 28, 1443-1453.	2.4	24
18	Fabrics with Novel Airâ€“Oil Amphibious, Spontaneous One-Way Water-Transport Capability for Oil/Water Separation. ACS Applied Materials & Interfaces, 2021, 13, 29150-29157.	4.0	24

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19	Durable superhydrophobic and antimicrobial cotton fabrics prepared by electrostatic assembly of polyhexamethylene biguanide and subsequent hydrophobization. Textile Reseach Journal, 2018, 88, 1788-1799.	1.1	22
20	Interfaceâ€Initiated Polymerization Enables Oneâ€Pot Synthesis of Hydrophilic and Oleophobic Foams through Emulsion Templating. Macromolecular Rapid Communications, 2019, 40, e1900288.	2.0	22
21	One-step zwitterionization and quaternization of thick PDMAEMA layer grafted through subsurface-initiated ATRP for robust antibiofouling and antibacterial coating on PDMS. Journal of Colloid and Interface Science, 2022, 610, 234-245.	5.0	22
22	Durable superhydrophobic and oleophobic cotton fabric based on the grafting of fluorinated POSS through silane coupling and thiol-ene click reaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127566.	2.3	21
23	Cellulose-based, highly porous polyurethanes templated within non-aqueous high internal phase emulsions. Cellulose, 2020, 27, 4007-4018.	2.4	20
24	A single covalently grafted fluorolayer imparts intrinsically hydrophilic foams with simultaneous oleophobicity and hydrophilicity for removing water from oils. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 605, 125380.	2.3	19
25	Closed-Cell, Phase Change Material-Encapsulated Monoliths from a Reactive Surfactant-Stabilized High Internal Phase Emulsion for Thermal Energy Storage. ACS Applied Polymer Materials, 2020, 2, 2578-2585.	2.0	19
26	Multifunctional Highly Oleophobic and Superhydrophilic Fabric Coatings Prepared by Facile Photopolymerization. Advanced Sustainable Systems, 2020, 4, 2000049.	2.7	18
27	Amphiphobic polyHIPEs with pH-triggered transition to hydrophilicityâ€“oleophobicity for the controlled removal of water from oilâ€“water mixtures. Polymer Chemistry, 2020, 11, 6935-6943.	1.9	17
28	Hydrophobic polyurethane polyHIPEs templated from mannitol within nonaqueous high internal phase emulsions for oil spill recovery. Journal of Polymer Science Part A, 2019, 57, 1315-1321.	2.5	16
29	A fully waterborne coating system based on thiol-ene click reaction for robust and self-healing superhydrophobic surfaces. Chemical Engineering Journal, 2022, 447, 137499.	6.6	16
30	Closed-cell, phase change material-encapsulated, emulsion-templated monoliths for latent heat storage: Flexibility and rapid preparation. Applied Materials Today, 2020, 21, 100831.	2.3	14
31	Octodecane-cellulose nanofiber flexible composites for latent heat storage. Chemical Engineering Journal, 2021, 425, 131432.	6.6	13
32	Nanofibrous, hypercrosslinked polymers with multiscale pores through post-crosslinking of emulsion-templated syndiotactic polystyrene aerogels. European Polymer Journal, 2020, 135, 109880.	2.6	12
33	Solvent-driven migration of highly polar monomers into hydrophobic PDMS produces a thick graft layer via subsurface initiated ATRP for efficient antibiofouling. Chemical Communications, 2020, 56, 5030-5033.	2.2	10
34	Subsurface-initiated atom transfer radical polymerization: effect of graft layer thickness and surface morphology on antibiofouling properties against different foulants. Journal of Materials Science, 2020, 55, 14544-14557.	1.7	7
35	Emulsion-templated porous polymers: drying condition-dependent properties. Soft Matter, 2021, 17, 9653-9663.	1.2	7
36	Emulsion-based, flexible and recyclable aerogel composites for latent heat storage. Journal of Colloid and Interface Science, 2022, 627, 72-80.	5.0	7

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37	Wetâ€spun porous fibers from high internal phase emulsions: Continuous preparation and high stretchability. Journal of Polymer Science, 2021, 59, 1055-1064.	2.0	5
38	Emulsion-Templated, Magnetic, Hydrophilicâ€“Oleophobic Composites for Controlled Water Removal. Langmuir, 2022, 38, 1422-1431.	1.6	5
39	Microphase-separated, magnetic macroporous polymers with amphiphilic swelling from emulsion templating. Polymer Chemistry, 2022, 13, 1090-1097.	1.9	4
40	Non-Fluorine Oil Repellency: How Low the Intrinsic Wetting Threshold Can Be for Roughness-Induced Contact Angle Amplification?. Langmuir, 2022, 38, 5857-5864.	1.6	4
41	Emulsion-templated, hydrophilic-oleophobic aerogels with flexibility, stretchability and recyclability. Polymer, 2022, 250, 124886.	1.8	4