

Yan Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,776
citations

361045

20
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276539

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docs citations

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times ranked

1717
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#	ARTICLE	IF	CITATIONS
1	One-step zwitterionization and quaternization of thick PDMAEMA layer grafted through subsurface-initiated ATRP for robust antibiofouling and antibacterial coating on PDMS. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 234-245.	5.0	22
2	Microphase-separated, magnetic macroporous polymers with amphiphilic swelling from emulsion templating. <i>Polymer Chemistry</i> , 2022, 13, 1090-1097.	1.9	4
3	Emulsion-Templated, Magnetic, Hydrophilic/Oleophobic Composites for Controlled Water Removal. <i>Langmuir</i> , 2022, 38, 1422-1431.	1.6	5
4	Robust multifunctional superhydrophobic, photocatalytic and conductive fabrics with electro-/photo-thermal self-healing ability. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 1-11.	5.0	25
5	Non-Fluorine Oil Repellency: How Low the Intrinsic Wetting Threshold Can Be for Roughness-Induced Contact Angle Amplification?. <i>Langmuir</i> , 2022, 38, 5857-5864.	1.6	4
6	Recent Advances in Sensors for Fire Detection. <i>Sensors</i> , 2022, 22, 3310.	2.1	36
7	Emulsion-templated, hydrophilic-oleophobic aerogels with flexibility, stretchability and recyclability. <i>Polymer</i> , 2022, 250, 124886.	1.8	4
8	A fully waterborne coating system based on thiol-ene click reaction for robust and self-healing superhydrophobic surfaces. <i>Chemical Engineering Journal</i> , 2022, 447, 137499.	6.6	16
9	Emulsion-based, flexible and recyclable aerogel composites for latent heat storage. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 72-80.	5.0	7
10	A Durable, Flexible, Large Area, Flame Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes. <i>Small Methods</i> , 2021, 5, e2001040.	4.6	67
11	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.	2.4	24
12	Wet-spun porous fibers from high internal phase emulsions: Continuous preparation and high stretchability. <i>Journal of Polymer Science</i> , 2021, 59, 1055-1064.	2.0	5
13	Fabrics with Novel Air/Oil Amphibious, Spontaneous One-Way Water-Transport Capability for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29150-29157.	4.0	24
14	Durable superhydrophobic cotton fabrics prepared by surface-initiated electrochemically mediated ATRP of polyhedral vinylsilsesquioxane and subsequent fluorination via thiol-Michael addition reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 79-88.	5.0	26
15	Randomly heterogeneous oleophobic/pH-responsive polymer coatings with reversible wettability transition for multifunctional fabrics and controllable oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 122-130.	5.0	31
16	Underwater Mechanically Tough, Elastic, Superhydrophilic Cellulose Nanofiber-Based Aerogels for Water-in-Oil Emulsion Separation and Solar Steam Generation. <i>ACS Applied Nano Materials</i> , 2021, 4, 8979-8989.	2.4	31
17	Octadecane-cellulose nanofiber flexible composites for latent heat storage. <i>Chemical Engineering Journal</i> , 2021, 425, 131432.	6.6	13
18	Durable superhydrophobic and oleophobic cotton fabric based on the grafting of fluorinated POSS through silane coupling and thiol-ene click reaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127566.	2.3	21

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19	Recent advances in lithium-ion battery separators with reversible/irreversible thermal shutdown capability. <i>Energy Storage Materials</i> , 2021, 43, 143-157.	9.5	39
20	Emulsion-templated porous polymers: drying condition-dependent properties. <i>Soft Matter</i> , 2021, 17, 9653-9663.	1.2	7
21	Closed-cell, phase change material-encapsulated, emulsion-templated monoliths for latent heat storage: Flexibility and rapid preparation. <i>Applied Materials Today</i> , 2020, 21, 100831.	2.3	14
22	Amphiphobic polyHIPEs with pH-triggered transition to hydrophilicity&oleophobicity for the controlled removal of water from oil&water mixtures. <i>Polymer Chemistry</i> , 2020, 11, 6935-6943.	1.9	17
23	Subsurface-initiated atom transfer radical polymerization: effect of graft layer thickness and surface morphology on antibiofouling properties against different foulants. <i>Journal of Materials Science</i> , 2020, 55, 14544-14557.	1.7	7
24	A single covalently grafted fluorolayer imparts intrinsically hydrophilic foams with simultaneous oleophobicity and hydrophilicity for removing water from oils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125380.	2.3	19
25	Zwitterionic Polymer&Grafted Superhydrophilic and Superoleophobic Silk Fabrics for Anti&Oil Applications. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000162.	2.0	24
26	Solvent-driven migration of highly polar monomers into hydrophobic PDMS produces a thick graft layer via subsurface initiated ATRP for efficient antibiofouling. <i>Chemical Communications</i> , 2020, 56, 5030-5033.	2.2	10
27	Closed-Cell, Phase Change Material-Encapsulated Monoliths from a Reactive Surfactant-Stabilized High Internal Phase Emulsion for Thermal Energy Storage. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2578-2585.	2.0	19
28	Nanofibrous, hypercrosslinked polymers with multiscale pores through post-crosslinking of emulsion-templated syndiotactic polystyrene aerogels. <i>European Polymer Journal</i> , 2020, 135, 109880.	2.6	12
29	Cellulose-based, highly porous polyurethanes templated within non-aqueous high internal phase emulsions. <i>Cellulose</i> , 2020, 27, 4007-4018.	2.4	20
30	Multifunctional Highly Oleophobic and Superhydrophilic Fabric Coatings Prepared by Facile Photopolymerization. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000049.	2.7	18
31	Core&Shell Structured Nanofibers for Lithium Ion Battery Separator with Wide Shutdown Temperature Window and Stable Electrochemical Performance. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1989-1996.	2.0	31
32	Durable Superamphiphobic and Photocatalytic Fabrics: Tackling the Loss of Super-Non-Wettability Due to Surface Organic Contamination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35327-35332.	4.0	51
33	Interface&Initiated Polymerization Enables One&Pot Synthesis of Hydrophilic and Oleophobic Foams through Emulsion Templating. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900288.	2.0	22
34	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oil&water separation ability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2122-2128.	5.2	205
35	Hydrophobic polyurethane polyHIPEs templated from mannitol within nonaqueous high internal phase emulsions for oil spill recovery. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1315-1321.	2.5	16
36	Fabricating a pH-responsive membrane through interfacial in-situ assembly of microgels for water gating and self-cleaning. <i>Journal of Membrane Science</i> , 2019, 579, 230-239.	4.1	51

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37	Durable superhydrophobic and antimicrobial cotton fabrics prepared by electrostatic assembly of polyhexamethylene biguanide and subsequent hydrophobization. <i>Textile Research Journal</i> , 2018, 88, 1788-1799.	1.1	22
38	A Waterborne Coating System for Preparing Robust, Self-healing, Superamphiphobic Surfaces. <i>Advanced Functional Materials</i> , 2017, 27, 1604261.	7.8	273
39	Recent Development in Durable Super-Liquid-Repellent Fabrics. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600402.	1.9	38
40	Fluorine-Free Superhydrophobic Coatings with pH-induced Wettability Transition for Controllable Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5661-5667.	4.0	195
41	A Superamphiphobic Coating with an Ammonia-triggered Transition to Superhydrophilic and Superoleophobic for Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4527-4530.	7.2	301