

# Shaohai Fu

## List of Publications by Citations

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100  
papers

1,110  
citations

18  
h-index

27  
g-index

103  
ext. papers

1,623  
ext. citations

6  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
100	Dispersibility and Hydrophobicity Analysis of Titanium Dioxide Nanoparticles Grafted with Silane Coupling Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 11930-11934	3.9	81
99	N-P-Zn-containing 2D supermolecular networks grown on MoS <sub>2</sub> nanosheets for mechanical and flame-retardant reinforcements of polyacrylonitrile fiber. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 873-885	14.7	41
98	One-Pot Preparation of Fluorine-Free Magnetic Superhydrophobic Particles for Controllable Liquid Marbles and Robust Multifunctional Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17004-17017	9.5	39
97	Encapsulation of C.I. Pigment blue 15:3 using a polymerizable dispersant via emulsion polymerization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 384, 68-74	5.1	38
96	Preparation and properties of polymer-encapsulated phthalocyanine blue pigment via emulsion polymerization. <i>Progress in Organic Coatings</i> , <b>2012</b> , 73, 149-154	4.8	37
95	Preparation of thermochromic liquid crystal microcapsules for intelligent functional fiber. <i>Materials and Design</i> , <b>2018</b> , 147, 28-34	8.1	35
94	Biomimetic Fabrication of Janus Fabric with Asymmetric Wettability for Water Purification and Hydrophobic/Hydrophilic Patterned Surfaces for Fog Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50113-50125	9.5	32
93	Preparation of UV-cured pigment/latex dispersion for textile inkjet printing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 462, 90-98	5.1	29
92	A liquid metal assisted dendrite-free anode for high-performance Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5597-5605	13	28
91	Mimicking from Rose Petal to Lotus Leaf: Biomimetic Multiscale Hierarchical Particles with Tunable Water Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7431-7440	9.5	27
90	Polymer-Encapsulated Colorful Al Pigments with High NIR and UV Reflectance and Their Application in Textiles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 11858-11865	3.9	25
89	Water-soluble cationic chitosan derivative to improve pigment-based inkjet printing and antibacterial properties for cellulose substrates. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 1674-1680	3.9	25
88	Fabrication of dye-doped liquid crystal microcapsules for electro-stimulated responsive smart textiles. <i>Dyes and Pigments</i> , <b>2018</b> , 158, 1-11	4.6	24
87	Properties of alginate fiber spun-dyed with fluorescent pigment dispersion. <i>Carbohydrate Polymers</i> , <b>2015</b> , 118, 143-9	10.3	21
86	Bioinspired Lamellar Barriers for Significantly Improving the Flame-Retardant Properties of Nanocellulose Composites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4331-4336	8.3	21
85	Interfacial growth of 2D bimetallic metal-organic frameworks on MoS <sub>2</sub> nanosheet for reinforcements of polyacrylonitrile fiber: From efficient flame-retardant fiber to recyclable photothermal materials. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125410	14.7	20
84	Responsive Liquid-Crystal-Clad Fibers for Advanced Textiles and Wearable Sensors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902168	24	18

83	Preparation of nanoscale carbon black dispersion using hyper-branched poly(styrene-alt-maleic anhydride). <i>Progress in Organic Coatings</i> , <b>2012</b> , 75, 537-542	4.8	18
82	Preparation of encapsulated disperse dye dispersion for polyester inkjet printing ink. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 1616-1621	2.9	18
81	Multicolor and Multistage Response Electrochromic Color-Memory Wearable Smart Textile and Flexible Display. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12313-12321	9.5	18
80	Extraction of natural dyes from <i>Alpinia blepharocalyx</i> K. Schum. for dyeing of silk fabric. <i>Coloration Technology</i> , <b>2013</b> , 129, 32-38	2	17
79	Properties of lyocell spinning solution with the addition of carbon black/latex composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 428, 1-8	5.1	15
78	Influence of nano-coated pigment ink formulation on ink-jet printability and printing accuracy. <i>Coloration Technology</i> , <b>2017</b> , 133, 476-484	2	14
77	Amorphous cobalt borate nanosheets grown on MoS <sub>2</sub> nanosheet for simultaneously improving the flame retardancy and mechanical properties of polyacrylonitrile composite fiber. <i>Composites Part B: Engineering</i> , <b>2020</b> , 201, 108298	10	14
76	A Review on the Mechanism of Pigment Dispersion. <i>Journal of Dispersion Science and Technology</i> , <b>2018</b> , 39, 874-889	1.5	14
75	Dope dyeing of lyocell fiber with NMMO-based carbon black dispersion. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 32-38	10.3	13
74	Preparation of fluorescent pigment latex and its application on binder-free printing of cotton fabrics. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45826	2.9	13
73	Investigation from Synthesis to Crystal Structure to Application of Ecofriendly Disperse Dyes on One-Step Dyeing of PET Fabric. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 758-766	8.3	13
72	Dual resource utilization for tannery sludge: Effects of sludge biochars (BCs) on volatile fatty acids (VFAs) production from sludge anaerobic digestion. <i>Bioresource Technology</i> , <b>2020</b> , 316, 123903	11	13
71	Salt-resistant Schiff base cross-linked superelastic photothermal cellulose aerogels for long-term seawater desalination. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131618	14.7	13
70	Colloidal properties of copolymer-encapsulated and surface-modified pigment dispersion and its application in inkjet printing inks. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 371-376	2.9	12
69	Robust raspberry-like all-polymer particles for the construction of superhydrophobic surface with high water adhesive force. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 1898-1912	4.3	12
68	Preparation of a Novel Colorant with Branched Poly(styrene-alt-maleic anhydride) for Textile Printing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10007-10014	3.9	11
67	Preparation of nanoscale azo pigment yellow 13/poly(styrene-maleic acid) composite dispersions via free-radical precipitation polymerization. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 1929-1934	2.9	11
66	Relationship between silk fabric pretreatment, droplet spreading, and ink-jet printing accuracy of reactive dye inks. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46703	2.9	11

65	Dye-doped liquid crystals under confinement in microcapsules. <i>Dyes and Pigments</i> , <b>2020</b> , 180, 108544	4.6	10
64	Facile preparation of petaliform-like superhydrophobic meshes via moisture etching for oil-water separation. <i>Surface and Coatings Technology</i> , <b>2020</b> , 399, 126124	4.4	10
63	Effect of pigment particle character on dyeing performance of cotton fabrics. <i>Fibers and Polymers</i> , <b>2013</b> , 14, 1019-1023	2	10
62	Hydrophobic properties and color effects of hybrid silica spin-coatings on cellulose matrix. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6682-6689	4.3	10
61	Cost-effective resource utilization for waste biomass: A simple preparation method of photo-thermal biochar cakes (BCs) toward dye wastewater treatment with solar energy. <i>Environmental Research</i> , <b>2021</b> , 194, 110720	7.9	10
60	Fabrication of Polylactic Acid-Modified Carbon Black Composites into Improvement of Levelness and Mechanical Properties of Spun-Dyeing Polylactic Acid Composites Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 688-696	8.3	10
59	The photoelectric properties characteristics of dye-doped nematic liquid crystal microcapsules with different structural composition. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 283, 816-822	6	9
58	Preparation of reactive nanoscale carbon black dispersion for pad coloration of cotton fabric. <i>Coloration Technology</i> , <b>2018</b> , 134, 91-99	2	9
57	Regenerated cellulose fibers spun-dyed with carbon black/latex composite dispersion. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 905-11	10.3	9
56	Liquid-repellent and self-repairing lubricant-grafted surfaces constructed by thiol-ene click chemistry using activated hollow silica as the lubricant reservoir. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 586, 279-291	9.3	9
55	Biomimetic Solid-Liquid Transition Structural Dye-Doped Liquid Crystal/Phase-Change-Material Microcapsules Designed for Wearable Bistable Electrochromic Fabric. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 33282-33290	9.5	9
54	Influence of diffusion behavior of disperse dye ink on printing accuracy for warp-knitted polyester fabrics. <i>Textile Reseach Journal</i> , <b>2019</b> , 89, 162-171	1.7	9
53	Preparation and characterization of aqueous phase self-dispersed CB/PSSS composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 533, 33-40	5.1	8
52	Preparation of amphiphilic hyperbranched polyesteramides by grafting mono methoxy polyethylene glycol onto hyperbranched polyesteramides via 2,4-tolylene diisocyanate. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 63-69	2.4	8
51	Bistable Elastic Electrochromic Ionic Gels for Energy-Saving Displays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 27200-27208	9.5	8
50	Ultrathin MXene/Polymer Coatings with an Alternating Structure on Fabrics for Enhanced Electromagnetic Interference Shielding and Fire-Resistant Protective Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38761-38772	9.5	8
49	Covalently grafted liquids for transparent and omniphobic surfaces via thiol-ene click chemistry. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 12811-12825	4.3	7
48	Preparation of macro reversible addition-fragmentation chain transfer copolymers and their application in pigment dispersion. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 915-921	2.9	7

47	Preparation and Characterization of Hyperbranched Polyesteramides. <i>Polymer Bulletin</i> , <b>2008</b> , 60, 533-543.	4.4	7
46	Bifunctional superwetting carbon nanotubes/cellulose composite membrane for solar desalination and oily seawater purification. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133510	14.7	7
45	Advanced Zinc Anode with Nitrogen-Doping Interface Induced by Plasma Surface Treatment. <i>Advanced Science</i> , <b>2021</b> , e2103952	13.6	7
44	Facile fabrication of biomimetic slippery lubricant-infused transparent and multifunctional omniphobic surfaces. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 4225-4237	4.3	7
43	Surface modification of carbon black by thiol-ene click reaction for improving dispersibility in aqueous phase. <i>Journal of Dispersion Science and Technology</i> , <b>2019</b> , 40, 152-160	1.5	7
42	Dyeing property of fluorescent pigment latex on cationic knitted cotton fabrics. <i>Textile Research Journal</i> , <b>2019</b> , 89, 422-433	1.7	7
41	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2200359	15.6	7
40	Nonfluorinated Multifunctional Superhydrophobic Cellulose Sheet with Polysaccharide B Biopolymer-Based Hierarchical Rough Composite Structure. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8505-8518	8.3	6
39	Preparation of core-shell latex for the pigmented ink of textile inkjet printing. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 2678-2683	2.9	6
38	Bioinspired Electro-Responsive Multispectral Controllable Dye-Doped Liquid Crystal Yolk-Shell Microcapsules for Advanced Textiles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13586-13595	9.5	6
37	Preparation of melamine-formaldehyde encapsulated fluorescent dye dispersion and its application to cotton fabric printing. <i>Coloration Technology</i> , <b>2019</b> , 135, 103-110	2	6
36	Unidirectionally Driving Nanofluidic Transportation via an Asymmetric Textile Pump for Simultaneous Salt-Resistant Solar Desalination and Drenching-Induced Power Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38405-38415	9.5	6
35	Preparation of SiO <sub>2</sub> /PSSS dispersion for formulation of white inkjet ink. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 963-975	2.5	5
34	Phthalocyanine green aluminum pigment prepared by inorganic acid radical/radical polymerization for waterborne textile applications. <i>International Journal of Industrial Chemistry</i> , <b>2017</b> , 8, 17-28	3.1	5
33	Simultaneously electrochemical exfoliation and functionalization of graphene nanosheets: Multifunctional reinforcements in thermal, flame-retardant, and mechanical properties of polyacrylonitrile composite fibers. <i>Polymer Composites</i> , <b>2020</b> , 41, 1561-1573	3	5
32	Use of highly-stable and covalently bonded polymer colorant on binder-free pigment printing of citric acid treated cotton fabric. <i>Cellulose</i> , <b>2021</b> , 28, 1843-1856	5.5	5
31	Intumescent flame-retardant and ultraviolet-blocking coating screen-printed on cotton fabric. <i>Cellulose</i> , <b>2021</b> , 28, 2495-2504	5.5	5
30	Slippery Antifouling Polysiloxane-Polyurea Surfaces with Matrix Self-Healing and Lubricant Self-Replenishing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32149-32160	9.5	5

29	Biomimetic Polychrome Rubberized Fabric Constructed by Nonfluorinated Multiscale Hierarchical Superhydrophobic Latex Pigments. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26392-26401	9.5	4
28	The electric response behavior and microencapsulation of the pigment phthalocyanine green G using interfacial polymerization. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 1379-1391	2.4	4
27	Encapsulation of disperse dye by phase separation technique using poly(styrene-maleic acid). <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 3581-3586	2.9	4
26	A dual-biomimetic knitted fabric with a manipulable structure and wettability for highly efficient fog harvesting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 10, 304-312	13	4
25	Multicolor Electrochromic Dye-Doped Liquid Crystal Yolk-Shell Microcapsules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 29728-29736	9.5	3
24	Controlling morphology and particle size of hollow poly(styrene-divinylbenzene) microspheres fabricated by template-based method. <i>Journal of Saudi Chemical Society</i> , <b>2018</b> , 22, 644-653	4.3	3
23	Mechanism and properties of coloured nanoscale SiO <sub>2</sub> prepared from silica and reactive dyes. <i>Coloration Technology</i> , <b>2016</b> , 132, 399-406	2	3
22	Meta-mordant Dyeing with <i>Camellia sinensis</i> (L.) O. Ktze var. <i>waldensae</i> (S.Y.Hu) Chang (Yellow-bud Tea) Extract for Wool Fabrics Treated by UV Radiation. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 1255-1265	2	3
21	Preparation of camphor oil/latex dispersion for the control of camphor oil release. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 1267-1281	2.4	2
20	Properties of copper phthalocyanine blue encapsulated with a copolymer of styrene and maleic acid. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, NA-NA	2.9	2
19	Preparation of Covalent and Solvent-resistance Colored Latex Particles and Its Application on Cotton Fabric. <i>Fibers and Polymers</i> , <b>2020</b> , 21, 1685-1693	2	2
18	Colored cotton fabric with hydrophobicity prepared by monodispersed cationic colored polymer nanospheres. <i>Colloid and Polymer Science</i> , <b>2021</b> , 299, 1371-1381	2.4	2
17	Programmable Asymmetric Nanofluidic Photothermal Textile Umbrella for Concurrent Salt Management and In Situ Power Generation During Long-Time Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47549-47559	9.5	2
16	All-in-one wearable electronics design: Smart electrochromic liquid-crystal-clad fibers without external electrodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 630, 127535 <sup>5.1</sup>		2
15	Synthesis and Characterization of A-B-A-Type Nonionic Dimeric Dispersants for Pigment Dispersion. <i>Journal of Surfactants and Detergents</i> , <b>2019</b> , 22, 885-895	1.9	1
14	Modification of carbon black pigment: Cotton fabric colouring and anti-bacterial finishing. <i>Coloration Technology</i> , <b>2020</b> , 136, 370-380	2	1
13	Preparation of cationic pigment dispersions by surface grafting of polystyrene-maleic anhydride with glycidyltriethylammonium chloride. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 1448-1453	2.9	1
12	Preparation and property optimization of bistable electrochromic microcapsules. <i>Dyes and Pigments</i> , <b>2022</b> , 197, 109936	4.6	1

11	Structural design of flame-retardant phosphatized unsaturated polyester resin. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50853	2.9	1
10	Polyurethane-based bionic material simulating the Vis-NIR spectrum and thermal infrared properties of vegetation.. <i>RSC Advances</i> , <b>2019</b> , 9, 41438-41446	3.7	1
9	Robust and non-fluorinated superhydrophobic meshes with controllable pore size for high-efficiency water-in-oil emulsion separation. <i>Separation Science and Technology</i> , <b>2021</b> , 56, 1699-1709 <sup>2.5</sup>	2.5	1
8	Adsorption behaviour of carbon black/latex by cationised cotton fabrics. <i>Coloration Technology</i> , <b>2015</b> , 131, 444-450	2	0
7	Synthesis and characterization of carbon black modified by polylactic acid (PLA-g-CB) as pigment for dope dyeing of black PLA fibers. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48784	2.9	0
6	Asymmetrically superwetting Janus Double-layer fabric for synchronous oil removal and catalytic reduction of aromatic dyes. <i>Separation and Purification Technology</i> , <b>2021</b> , 255, 117663	8.3	0
5	Green Plant Leaf-inspired Smart Camouflage Fabrics for Visible Light and Near-infrared Stealth. <i>Journal of Bionic Engineering</i> , <b>2022</b> , 19, 788	2.7	0
4	Ultrahigh-sensitivity thermochromic smart fabrics and flexible temperature sensors based on intramolecular proton-coupled electron transfer. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136444	14.7	0
3	Novel Bistable Electrochromic Devices Inspired by Hydroxyl-Acids <i>Advanced Electronic Materials</i> , <b>2020</b> , 9, 200206.4	6.4	0
2	Roles of hydrothermal-alkaline treatment in tannery sludge reduction: rheological properties and sludge reduction mechanism analysis.. <i>RSC Advances</i> , <b>2020</b> , 10, 14291-14298	3.7	0
1	Alkali Resistance Mechanism of Cyano-containing Heterocyclic Disperse Dyes. <i>Journal of Molecular Structure</i> , <b>2022</b> , 133438	3.4	0