

Shaohai Fu

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Preparation and property optimization of bistable electrochromic microcapsules. <i>Dyes and Pigments</i> , 2022 , 197, 109936	4.6	1
99	Salt-resistant Schiff base cross-linked superelastic photothermal cellulose aerogels for long-term seawater desalination. <i>Chemical Engineering Journal</i> , 2022 , 427, 131618	14.7	13
98	Green Plant Leaf-inspired Smart Camouflage Fabrics for Visible Light and Near-infrared Stealth. <i>Journal of Bionic Engineering</i> , 2022 , 19, 788	2.7	0
97	Ultrahigh-sensitivity thermochromic smart fabrics and flexible temperature sensors based on intramolecular proton-coupled electron transfer. <i>Chemical Engineering Journal</i> , 2022 , 136444	14.7	0
96	Alkali Resistance Mechanism of Cyano-containing Heterocyclic Disperse Dyes. <i>Journal of Molecular Structure</i> , 2022 , 133438	3.4	
95	A dual-biomimetic knitted fabric with a manipulable structure and wettability for highly efficient fog harvesting. <i>Journal of Materials Chemistry A</i> , 2021 , 10, 304-312	13	4
94	Bifunctional superwetting carbon nanotubes/cellulose composite membrane for solar desalination and oily seawater purification. <i>Chemical Engineering Journal</i> , 2021 , 433, 133510	14.7	7
93	Advanced Zinc Anode with Nitrogen-Doping Interface Induced by Plasma Surface Treatment. <i>Advanced Science</i> , 2021 , e2103952	13.6	7
92	Multicolor and Multistage Response Electrochromic Color-Memory Wearable Smart Textile and Flexible Display. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12313-12321	9.5	18
91	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> , 2021 , 586, 279-291	9.3	9
90	Bioinspired Electro-Responsive Multispectral Controllable Dye-Doped Liquid Crystal Yolk-Shell Microcapsules for Advanced Textiles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13586-13595	9.5	6
89	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> , 2021 , 194, 110720	7.9	10
88	Structural design of flame-retardant phosphatized unsaturated polyester resin. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50853	2.9	1
87	Colored cotton fabric with hydrophobicity prepared by monodispersed cationic colored polymer nanospheres. <i>Colloid and Polymer Science</i> , 2021 , 299, 1371-1381	2.4	2
86	Bistable Elastic Electrochromic Ionic Gels for Energy-Saving Displays. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27200-27208	9.5	8
85	Biomimetic Solid-Liquid Transition Structural Dye-Doped Liquid Crystal/Phase-Change-Material Microcapsules Designed for Wearable Bistable Electrochromic Fabric. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33282-33290	9.5	9
84	Robust and non-fluorinated superhydrophobic meshes with controllable pore size for high-efficiency water-in-oil emulsion separation. <i>Separation Science and Technology</i> , 2021 , 56, 1699-1709 ^{2.5}		1

83	Asymmetrically superwetting Janus Double-layer fabric for synchronous oil removal and catalytic reduction of aromatic dyes. <i>Separation and Purification Technology</i> , 2021 , 255, 117663	8.3	0
82	Use of highly-stable and covalently bonded polymer colorant on binder-free pigment printing of citric acid treated cotton fabric. <i>Cellulose</i> , 2021 , 28, 1843-1856	5.5	5
81	Intumescent flame-retardant and ultraviolet-blocking coating screen-printed on cotton fabric. <i>Cellulose</i> , 2021 , 28, 2495-2504	5.5	5
80	Slippery Antifouling Polysiloxane-Polyurea Surfaces with Matrix Self-Healing and Lubricant Self-Replenishing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32149-32160	9.5	5
79	Ultrathin MXene/Polymer Coatings with an Alternating Structure on Fabrics for Enhanced Electromagnetic Interference Shielding and Fire-Resistant Protective Performances. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38761-38772	9.5	8
78	Unidirectionally Driving Nanofluidic Transportation via an Asymmetric Textile Pump for Simultaneous Salt-Resistant Solar Desalination and Drenching-Induced Power Generation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38405-38415	9.5	6
77	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 & Interfaces</i> , 2021 , 13, 47549-47559	9.5	2
76	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> , 2021 , 630, 127535 ^{5.1}	5.1	2
75	A liquid metal assisted dendrite-free anode for high-performance Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5597-5605	13	28
74	Modification of carbon black pigment: Cotton fabric colouring and anti-bacterial finishing. <i>Coloration Technology</i> , 2020 , 136, 370-380	2	1
73	Dye-doped liquid crystals under confinement in microcapsules. <i>Dyes and Pigments</i> , 2020 , 180, 108544	4.6	10
72	Nonfluorinated Multifunctional Superhydrophobic Cellulose Sheet with Polysaccharide B Biopolymer-Based Hierarchical Rough Composite Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8505-8518	8.3	6
71	Interfacial growth of 2D bimetallic metal-organic frameworks on MoS ₂ nanosheet for reinforcements of polyacrylonitrile fiber: From efficient flame-retardant fiber to recyclable photothermal materials. <i>Chemical Engineering Journal</i> , 2020 , 397, 125410	14.7	20
70	Covalently grafted liquids for transparent and omniphobic surfaces via thiol-ene click chemistry. <i>Journal of Materials Science</i> , 2020 , 55, 12811-12825	4.3	7
69	Multicolor Electrochromic Dye-Doped Liquid Crystal Yolk-Shell Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29728-29736	9.5	3
68	Bioinspired Lamellar Barriers for Significantly Improving the Flame-Retardant Properties of Nanocellulose Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4331-4336	8.3	21
67	One-Pot Preparation of Fluorine-Free Magnetic Superhydrophobic Particles for Controllable Liquid Marbles and Robust Multifunctional Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17004-17017	9.5	39
66	Facile preparation of petaliform-like superhydrophobic meshes via moisture etching for oil-water separation. <i>Surface and Coatings Technology</i> , 2020 , 399, 126124	4.4	10

65	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> , 2020 , 137, 48784	2.9	0
64	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> , 2020 , 41, 1561-1573	3	5
63	Facile fabrication of biomimetic slippery lubricant-infused transparent and multifunctional omniphobic surfaces. <i>Journal of Materials Science</i> , 2020 , 55, 4225-4237	4.3	7
62	Amorphous cobalt borate nanosheets grown on MoS ₂ nanosheet for simultaneously improving the flame retardancy and mechanical properties of polyacrylonitrile composite fiber. <i>Composites Part B: Engineering</i> , 2020 , 201, 108298	10	14
61	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> , 2020 , 316, 123903	11	13
60	Preparation of Covalent and Solvent-resistance Colored Latex Particles and Its Application on Cotton Fabric. <i>Fibers and Polymers</i> , 2020 , 21, 1685-1693	2	2
59	Biomimetic Fabrication of Janus Fabric with Asymmetric Wettability for Water Purification and Hydrophobic/Hydrophilic Patterned Surfaces for Fog Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50113-50125	9.5	32
58	Roles of hydrothermal-alkaline treatment in tannery sludge reduction: rheological properties and sludge reduction mechanism analysis.. <i>RSC Advances</i> , 2020 , 10, 14291-14298	3.7	
57	Mimicking from Rose Petal to Lotus Leaf: Biomimetic Multiscale Hierarchical Particles with Tunable Water Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7431-7440	9.5	27
56	Responsive Liquid-Crystal-Clad Fibers for Advanced Textiles and Wearable Sensors. <i>Advanced Materials</i> , 2019 , 31, e1902168	24	18
55	N-P-Zn-containing 2D supermolecular networks grown on MoS ₂ nanosheets for mechanical and flame-retardant reinforcements of polyacrylonitrile fiber. <i>Chemical Engineering Journal</i> , 2019 , 372, 873-885	14.7	41
54	The photoelectric properties characteristics of dye-doped nematic liquid crystal microcapsules with different structural composition. <i>Journal of Molecular Liquids</i> , 2019 , 283, 816-822	6	9
53	Synthesis and Characterization of A-B-A-Type Nonionic Dimeric Dispersants for Pigment Dispersion. <i>Journal of Surfactants and Detergents</i> , 2019 , 22, 885-895	1.9	1
52	Biomimetic Polychrome Rubberized Fabric Constructed by Nonfluorinated Multiscale Hierarchical Superhydrophobic Latex Pigments. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26392-26401	9.5	4
51	Preparation of melamine-formaldehyde encapsulated fluorescent dye dispersion and its application to cotton fabric printing. <i>Coloration Technology</i> , 2019 , 135, 103-110	2	6
50	Polyurethane-based bionic material simulating the Vis-NIR spectrum and thermal infrared properties of vegetation.. <i>RSC Advances</i> , 2019 , 9, 41438-41446	3.7	1
49	Surface modification of carbon black by thiol-ene click reaction for improving dispersibility in aqueous phase. <i>Journal of Dispersion Science and Technology</i> , 2019 , 40, 152-160	1.5	7
48	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> , 2019 , 7, 688-696	8.3	10

47	Robust raspberry-like all-polymer particles for the construction of superhydrophobic surface with high water adhesive force. <i>Journal of Materials Science</i> , 2019 , 54, 1898-1912	4.3	12
46	Influence of diffusion behavior of disperse dye ink on printing accuracy for warp-knitted polyester fabrics. <i>Textile Research Journal</i> , 2019 , 89, 162-171	1.7	9
45	Dyeing property of fluorescent pigment latex on cationic knitted cotton fabrics. <i>Textile Research Journal</i> , 2019 , 89, 422-433	1.7	7
44	Controlling morphology and particle size of hollow poly(styrene-divinylbenzene) microspheres fabricated by template-based method. <i>Journal of Saudi Chemical Society</i> , 2018 , 22, 644-653	4.3	3
43	Preparation of reactive nanoscale carbon black dispersion for pad coloration of cotton fabric. <i>Coloration Technology</i> , 2018 , 134, 91-99	2	9
42	Preparation of thermochromic liquid crystal microcapsules for intelligent functional fiber. <i>Materials and Design</i> , 2018 , 147, 28-34	8.1	35
41	Preparation of fluorescent pigment latex and its application on binder-free printing of cotton fabrics. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45826	2.9	13
40	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> , 2018 , 19, 1255-1265	2	3
39	A Review on the Mechanism of Pigment Dispersion. <i>Journal of Dispersion Science and Technology</i> , 2018 , 39, 874-889	1.5	14
38	Relationship between silk fabric pretreatment, droplet spreading, and ink-jet printing accuracy of reactive dye inks. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46703	2.9	11
37	Fabrication of dye-doped liquid crystal microcapsules for electro-stimulated responsive smart textiles. <i>Dyes and Pigments</i> , 2018 , 158, 1-11	4.6	24
36	Dope dyeing of lyocell fiber with NMMO-based carbon black dispersion. <i>Carbohydrate Polymers</i> , 2017 , 174, 32-38	10.3	13
35	Influence of nano-coated pigment ink formulation on ink-jet printability and printing accuracy. <i>Coloration Technology</i> , 2017 , 133, 476-484	2	14
34	Preparation and characterization of aqueous phase self-dispersed CB/PSSS composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 533, 33-40	5.1	8
33	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> , 2017 , 5, 758-766	8.3	13
32	Phthalocyanine green aluminum pigment prepared by inorganic acid radical/radical polymerization for waterborne textile applications. <i>International Journal of Industrial Chemistry</i> , 2017 , 8, 17-28	3.1	5
31	Mechanism and properties of coloured nanoscale SiO ₂ prepared from silica and reactive dyes. <i>Coloration Technology</i> , 2016 , 132, 399-406	2	3
30	Preparation of camphor oil/latex dispersion for the control of camphor oil release. <i>Polymer Bulletin</i> , 2016 , 73, 1267-1281	2.4	2

29	Preparation of SiO ₂ /PSSS dispersion for formulation of white inkjet ink. <i>Polymer Bulletin</i> , 2015 , 72, 963-975	2.5	5
28	Properties of alginate fiber spun-dyed with fluorescent pigment dispersion. <i>Carbohydrate Polymers</i> , 2015 , 118, 143-9	10.3	21
27	Adsorption behaviour of carbon black/latex by cationised cotton fabrics. <i>Coloration Technology</i> , 2015 , 131, 444-450	2	0
26	Polymer-Encapsulated Colorful Al Pigments with High NIR and UV Reflectance and Their Application in Textiles. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11858-11865	3.9	25
25	Preparation of UV-cured pigment/latex dispersion for textile inkjet printing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 462, 90-98	5.1	29
24	Preparation of a Novel Colorant with Branched Poly(styrene-alt-maleic anhydride) for Textile Printing. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10007-10014	3.9	11
23	Regenerated cellulose fibers spun-dyed with carbon black/latex composite dispersion. <i>Carbohydrate Polymers</i> , 2014 , 101, 905-11	10.3	9
22	Preparation of core-shell latex for the pigmented ink of textile inkjet printing. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2678-2683	2.9	6
21	Effect of pigment particle character on dyeing performance of cotton fabrics. <i>Fibers and Polymers</i> , 2013 , 14, 1019-1023	2	10
20	Properties of lyocell spinning solution with the addition of carbon black/latex composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 428, 1-8	5.1	15
19	Extraction of natural dyes from <i>Alpinia blepharocalyx</i> K. Schum. for dyeing of silk fabric. <i>Coloration Technology</i> , 2013 , 129, 32-38	2	17
18	Preparation and properties of polymer-encapsulated phthalocyanine blue pigment via emulsion polymerization. <i>Progress in Organic Coatings</i> , 2012 , 73, 149-154	4.8	37
17	Preparation of nanoscale carbon black dispersion using hyper-branched poly(styrene-alt-maleic anhydride). <i>Progress in Organic Coatings</i> , 2012 , 75, 537-542	4.8	18
16	Preparation of macro reversible addition-fragmentation chain transfer copolymers and their application in pigment dispersion. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 915-921	2.9	7
15	Water-soluble cationic chitosan derivative to improve pigment-based inkjet printing and antibacterial properties for cellulose substrates. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 1674-1680	2.9	25
14	Dispersibility and Hydrophobicity Analysis of Titanium Dioxide Nanoparticles Grafted with Silane Coupling Agent. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11930-11934	3.9	81
13	Hydrophobic properties and color effects of hybrid silica spin-coatings on cellulose matrix. <i>Journal of Materials Science</i> , 2011 , 46, 6682-6689	4.3	10
12	The electric response behavior and microencapsulation of the pigment phthalocyanine green G using interfacial polymerization. <i>Polymer Bulletin</i> , 2011 , 67, 1379-1391	2.4	4

11	Colloidal properties of copolymer-encapsulated and surface-modified pigment dispersion and its application in inkjet printing inks. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 371-376	2.9	12
10	Encapsulation of disperse dye by phase separation technique using poly(styrene-maleic acid). <i>Journal of Applied Polymer Science</i> , 2011 , 120, 3581-3586	2.9	4
9	Preparation of encapsulated disperse dye dispersion for polyester inkjet printing ink. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 1616-1621	2.9	18
8	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> , 2011 , 384, 68-74	5.1	38
7	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> , 2010 , 115, 1929-1934	2.9	11
6	Properties of copper phthalocyanine blue encapsulated with a copolymer of styrene and maleic acid. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	2
5	Preparation of cationic pigment dispersions by surface grafting of polystyrene-maleic anhydride with glycidyltriethylammonium chloride. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1448-1453	2.9	1
4	Preparation and Characterization of Hyperbranched Polyesteramides. <i>Polymer Bulletin</i> , 2008 , 60, 533-543	3.4	7
3	Preparation of amphiphilic hyperbranched polyesteramides by grafting mono methoxy polyethylene glycol onto hyperbranched polyesteramides via 2,4-tolylene diisocyanate. <i>Polymer Bulletin</i> , 2008 , 61, 63-69	2.4	8
2	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. <i>Advanced Functional Materials</i> , 2003 , 15, 359	15.6	7
1	Novel Bistable Electrochromic Devices Inspired by Hydroxyl-Acids. <i>Advanced Electronic Materials</i> , 2002 , 1, 4	10.4	0