# Shaohai Fu

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 103 papers | 2,206 citations | 201385 27 h-index | 288905 40 g-index |
| 103 all docs | 103 docs citations | 103 times ranked | 1674 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dispersibility and Hydrophobicity Analysis of Titanium Dioxide Nanoparticles Grafted with Silane Coupling Agent. Industrial & Engineering Chemistry Research, 2011, 50, 11930-11934. | 1.8 | 100 |
| 2 | Salt-resistant Schiff base cross-linked superelastic photothermal cellulose aerogels for long-term seawater desalination. Chemical Engineering Journal, 2022, 427, 131618. | 6.6 | 78 |
| 3 | A liquid metal assisted dendrite-free anode for high-performance Zn-ion batteries. Journal of Materials Chemistry A, 2021, 9, 5597-5605. | 5.2 | 78 |
| 4 | One-Pot Preparation of Fluorine-Free Magnetic Superhydrophobic Particles for Controllable Liquid Marbles and Robust Multifunctional Coatings. ACS Applied Materials & Interfaces, 2020, 12, 17004-17017. | 4.0 | 73 |
| 5 | N-P-Zn-containing 2D supermolecular networks grown on MoS2 nanosheets for mechanical and flame-retardant reinforcements of polyacrylonitrile fiber. Chemical Engineering Journal, 2019, 372, 873-885. | 6.6 | 70 |
| 6 | Biomimetic Fabrication of Janus Fabric with Asymmetric Wettability for Water Purification and Hydrophobic/Hydrophilic Patterned Surfaces for Fog Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 50113-50125. | 4.0 | 68 |
| 7 | Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. Advanced Functional Materials, 2022, 32, . | 7.8 | 62 |
| 8 | Bifunctional superwetting carbon nanotubes/cellulose composite membrane for solar desalination and oily seawater purification. Chemical Engineering Journal, 2022, 433, 133510. | 6.6 | 58 |
| 9 | Preparation of thermochromic liquid crystal microcapsules for intelligent functional fiber. Materials and Design, 2018, 147, 28-34. | 3.3 | 57 |
| 10 | Advanced Zinc Anode with Nitrogenâ€Doping Interface Induced by Plasma Surface Treatment. Advanced Science, 2022, 9, e2103952. | 5.6 | 51 |
| 11 | Multicolor and Multistage Response Electrochromic Color-Memory Wearable Smart Textile and Flexible Display. ACS Applied Materials & Interfaces, 2021, 13, 12313-12321. | 4.0 | 48 |
| 12 | Encapsulation of C.I. Pigment blue 15:3 using a polymerizable dispersant via emulsion polymerization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 68-74. | 2.3 | 46 |
| 13 | Bistable Elastic Electrochromic Ionic Gels for Energy-Saving Displays. ACS Applied Materials & Interfaces, 2021, 13, 27200-27208. | 4.0 | 46 |
| 14 | Preparation and properties of polymer-encapsulated phthalocyanine blue pigment via emulsion polymerization. Progress in Organic Coatings, 2012, 73, 149-154. | 1.9 | 45 |
| 15 | Interfacial growth of 2D bimetallic metal-organic frameworks on MoS2 nanosheet for reinforcements of polyacrylonitrile fiber: From efficient flame-retardant fiber to recyclable photothermal materials. Chemical Engineering Journal, 2020, 397, 125410. | 6.6 | 43 |
| 16 | Mimicking from Rose Petal to Lotus Leaf: Biomimetic Multiscale Hierarchical Particles with Tunable Water Adhesion. ACS Applied Materials & Interfaces, 2019, 11, 7431-7440. | 4.0 | 41 |
| 17 | Amorphous cobalt borate nanosheets grown on MoS2 nanosheet for simultaneously improving the flame retardancy and mechanical properties of polyacrylonitrile composite fiber. Composites Part B: Engineering, 2020, 201, 108298. | 5.9 | 40 |
| 18 | Cost-effective resource utilization for waste biomass: A simple preparation method of photo-thermal biochar cakes (BCs) toward dye wastewater treatment with solar energy. Environmental Research, 2021, 194, 110720. | 3.7 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Unidirectionally Driving Nanofluidic Transportation via an Asymmetric Textile Pump for Simultaneous Salt-Resistant Solar Desalination and Drenching-Induced Power Generation. ACS Applied Materials & Interfaces, 2021, 13, 38405-38415. | 4.0 | 39 |
| 20 | Dual resource utilization for tannery sludge: Effects of sludge biochars (BCs) on volatile fatty acids (VFAs) production from sludge anaerobic digestion. Bioresource Technology, 2020, 316, 123903. | 4.8 | 37 |
| 21 | Preparation of UV-cured pigment/latex dispersion for textile inkjet printing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 462, 90-98. | 2.3 | 36 |
| 22 | Fabrication of dye-doped liquid crystal microcapsules for electro-stimulated responsive smart textiles. Dyes and Pigments, 2018, 158, 1-11. | 2.0 | 35 |
| 23 | Ultrathin MXene/Polymer Coatings with an Alternating Structure on Fabrics for Enhanced Electromagnetic Interference Shielding and Fire-Resistant Protective Performances. ACS Applied Materials & Interfaces, 2021, 13, 38761-38772. | 4.0 | 34 |
| 24 | Polymer-Encapsulated Colorful Al Pigments with High NIR and UV Reflectance and Their Application in Textiles. Industrial & Engineering Chemistry Research, 2015, 54, 11858-11865. | 1.8 | 32 |
| 25 | Bioinspired Lamellar Barriers for Significantly Improving the Flame-Retardant Properties of Nanocellulose Composites. ACS Sustainable Chemistry and Engineering, 2020, 8, 4331-4336. | 3.2 | 32 |
| 26 | Biomimetic Solidâ€“Liquid Transition Structural Dye-Doped Liquid Crystal/Phase-Change-Material Microcapsules Designed for Wearable Bistable Electrochromic Fabric. ACS Applied Materials & Interfaces, 2021, 13, 33282-33290. | 4.0 | 31 |
| 27 | Slippery Antifouling Polysiloxaneâ€“Polyurea Surfaces with Matrix Self-Healing and Lubricant Self-Replenishing. ACS Applied Materials & Interfaces, 2021, 13, 32149-32160. | 4.0 | 31 |
| 28 | A Review on the Mechanism of Pigment Dispersion. Journal of Dispersion Science and Technology, 2018, 39, 874-889. | 1.3 | 30 |
| 29 | Responsive Liquidâ€Crystalâ€Clad Fibers for Advanced Textiles and Wearable Sensors. Advanced Materials, 2019, 31, e1902168. | 11.1 | 30 |
| 30 | Properties of alginate fiber spun-dyed with fluorescent pigment dispersion. Carbohydrate Polymers, 2015, 118, 143-149. | 5.1 | 28 |
| 31 | Nanoâ€scale <scp>BN</scp> interface for ultraâ€stable and wide temperature range tolerable Zn anode. EcoMat, 2022, 4, . | 6.8 | 27 |
| 32 | Waterâ€soluble cationic chitosan derivative to improve pigmentâ€based inkjet printing and antibacterial properties for cellulose substrates. Journal of Applied Polymer Science, 2012, 125, 1674-1680. | 1.3 | 26 |
| 33 | Extraction of natural dyes from Alpinia blepharocalyx K. Schum. for dyeing of silk fabric. Coloration Technology, 2013, 129, 32-38. | 0.7 | 24 |
| 34 | A dual-biomimetic knitted fabric with a manipulable structure and wettability for highly efficient fog harvesting. Journal of Materials Chemistry A, 2021, 10, 304-312. | 5.2 | 24 |
| 35 | Preparation of encapsulated disperse dye dispersion for polyester inkjet printing ink. Journal of Applied Polymer Science, 2011, 121, 1616-1621. | 1.3 | 23 |
| 36 | Preparation of nanoscale carbon black dispersion using hyper-branched poly(styrene-alt-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 | 1.9 | 23 |

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|---|---|---|---|
| 37 | Liquid-repellent and self-repairing lubricant-grafted surfaces constructed by thiol-ene click chemistry using activated hollow silica as the lubricant reservoir. Journal of Colloid and Interface Science, 2021, 586, 279-291. | 5.0 | 23 |
| 38 | Covalently grafted liquids for transparent and omniphobic surfaces via thiol-ene click chemistry. Journal of Materials Science, 2020, 55, 12811-12825. | 1.7 | 22 |
| 39 | Facile preparation of petaliform-like superhydrophobic meshes via moisture etching for oil-water separation. Surface and Coatings Technology, 2020, 399, 126124. | 2.2 | 21 |
| 40 | Programmable Asymmetric Nanofluidic Photothermal Textile Umbrella for Concurrent Salt Management and In Situ Power Generation During Long-Time Solar Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 47549-47559. | 4.0 | 20 |
| 41 | Dope dyeing of lyocell fiber with NMMO-based carbon black dispersion. Carbohydrate Polymers, 2017, 174, 32-38. | 5.1 | 19 |
| 42 | Investigation from Synthesis to Crystal Structure to Application of Ecofriendly Disperse Dyes on One-Step Dyeing of PET Fabric. ACS Sustainable Chemistry and Engineering, 2017, 5, 758-766. | 3.2 | 19 |
| 43 | Relationship between silk fabric pretreatment, droplet spreading, and inkâ€jet printing accuracy of reactive dye inks. Journal of Applied Polymer Science, 2018, 135, 46703. | 1.3 | 19 |
| 44 | Preparation of fluorescent pigment latex and its application on binderâ€free printing of cotton fabrics. Journal of Applied Polymer Science, 2018, 135, 45826. | 1.3 | 17 |
| 45 | Influence of diffusion behavior of disperse dye ink on printing accuracy for warp-knitted polyester fabrics. Textile Reseach Journal, 2019, 89, 162-171. | 1.1 | 17 |
| 46 | Preparation of a Novel Colorant with Branched Poly(styrene-alt-maleic anhydride) for Textile Printing. Industrial & Engineering Chemistry Research, 2014, 53, 10007-10014. | 1.8 | 16 |
| 47 | Influence of nano-coated pigment ink formulation on ink-jet printability and printing accuracy. Coloration Technology, 2017, 133, 476-484. | 0.7 | 16 |
| 48 | Robust raspberry-like all-polymer particles for the construction of superhydrophobic surface with high water adhesive force. Journal of Materials Science, 2019, 54, 1898-1912. | 1.7 | 16 |
| 49 | Properties of lyocell spinning solution with the addition of carbon black/latex composite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 428, 1-8. | 2.3 | 15 |
| 50 | Nonfluorinated Multifunctional Superhydrophobic Cellulose Sheet with Polysaccharide B Biopolymer-Based Hierarchical Rough Composite Structure. ACS Sustainable Chemistry and Engineering, 2020, 8, 8505-8518. | 3.2 | 15 |
| 51 | Colloidal properties of copolymerâ€encapsulated and surfaceâ€modified pigment dispersion and its application in inkjet printing inks. Journal of Applied Polymer Science, 2011, 119, 371-376. | 1.3 | 14 |
| 52 | Dyeing property of fluorescent pigment latex on cationic knitted cotton fabrics. Textile Reseach Journal, 2019, 89, 422-433. | 1.1 | 14 |
| 53 | Use of highly-stable and covalently bonded polymer colorant on binder-free pigment printing of citric acid treated cotton fabric. Cellulose, 2021, 28, 1843-1856. | 2.4 | 14 |
| 54 | Facile fabrication of biomimetic slippery lubricant-infused transparent and multifunctional omniphobic surfaces. Journal of Materials Science, 2020, 55, 4225-4237. | 1.7 | 13 |

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|---|---|---|---|
| 55 | Preparation of nanoscale azo pigment yellow 13/poly(styreneâ€“maleic acid) composite dispersions via freeâ€radical precipitation polymerization. Journal of Applied Polymer Science, 2010, 115, 1929-1934. | 1.3 | 12 |
| 56 | Effect of pigment particle character on dyeing performance of cotton fabrics. Fibers and Polymers, 2013, 14, 1019-1023. | 1.1 | 12 |
| 57 | The photoelectric properties characteristics of dye-doped nematic liquid crystal microcapsules with different structural composition. Journal of Molecular Liquids, 2019, 283, 816-822. | 2.3 | 12 |
| 58 | Fabrication of Polylactic Acid-Modified Carbon Black Composites into Improvement of Levelness and Mechanical Properties of Spun-Dyeing Polylactic Acid Composites Membrane. ACS Sustainable Chemistry and Engineering, 2019, 7, 688-696. | 3.2 | 12 |
| 59 | Bioinspired Electro-Responsive Multispectral Controllable Dye-Doped Liquid Crystal Yolkâ€“Shell Microcapsules for Advanced Textiles. ACS Applied Materials & Interfaces, 2021, 13, 13586-13595. | 4.0 | 12 |
| 60 | Preparation of reactive nanoscale carbon black dispersion for pad coloration of cotton fabric. Coloration Technology, 2018, 134, 91-99. | 0.7 | 11 |
| 61 | Polyurethane-based bionic material simulating the Vis-NIR spectrum and thermal infrared properties of vegetation. RSC Advances, 2019, 9, 41438-41446. | 1.7 | 11 |
| 62 | Dye-doped liquid crystals under confinement in microcapsules. Dyes and Pigments, 2020, 180, 108544. | 2.0 | 11 |
| 63 | Intumescent flameâ€retardant and ultravioletâ€blocking coating screenâ€printed on cotton fabric. Cellulose, 2021, 28, 2495-2504. | 2.4 | 11 |
| 64 | Hydrophobic properties and color effects of hybrid silica spin-coatings on cellulose matrix. Journal of Materials Science, 2011, 46, 6682-6689. | 1.7 | 10 |
| 65 | Surface modification of carbon black by thiol-ene click reaction for improving dispersibility in aqueous phase. Journal of Dispersion Science and Technology, 2019, 40, 152-160. | 1.3 | 10 |
| 66 | Preparation and Characterization of Hyperbranched Polyesteramides. Polymer Bulletin, 2008, 60, 533-543. | 1.7 | 9 |
| 67 | Preparation of macro reversible additionâ€“fragmentation chain transfer copolymers and their application in pigment dispersion. Journal of Applied Polymer Science, 2012, 125, 915-921. | 1.3 | 9 |
| 68 | Regenerated cellulose fibers spun-dyed with carbon black/latex composite dispersion. Carbohydrate Polymers, 2014, 101, 905-911. | 5.1 | 9 |
| 69 | Simultaneously electrochemical exfoliation and functionalization of graphene nanosheets: Multifunctional reinforcements in thermal, flameâ€retardant, and mechanical properties of polyacrylonitrile composite fibers. Polymer Composites, 2020, 41, 1561-1573. | 2.3 | 9 |
| 70 | Preparation of amphiphilic hyperbranched polyesteramides by grafting mono methoxy polyethylene glycol onto hyperbranched polyesteramides via 2,4-tolylene diisocyanate. Polymer Bulletin, 2008, 61, 63-69. | 1.7 | 8 |
| 71 | Preparation of coreâ€“shell latex for the pigmented ink of textile inkjet printing. Journal of Applied Polymer Science, 2013, 127, 2678-2683. | 1.3 | 8 |
| 72 | Preparation and characterization of aqueous phase self-dispersed CB/PSSS composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 533, 33-40. | 2.3 | 8 |

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|---|---|---|---|
| 73 | Biomimetic Polychrome Rubberized Fabric Constructed by Nonfluorinated Multiscale Hierarchical Superhydrophobic Latex Pigments. ACS Applied Materials & Interfaces, 2019, 11, 26392-26401. | 4.0 | 8 |
| 74 | Colored cotton fabric with hydrophobicity prepared by monodispersed cationic colored polymer nanospheres. Colloid and Polymer Science, 2021, 299, 1371-1381. | 1.0 | 8 |
| 75 | Phthalocyanine green aluminum pigment prepared by inorganic acid radical/radical polymerization for waterborne textile applications. International Journal of Industrial Chemistry, 2017, 8, 17-28. | 3.1 | 7 |
| 76 | Multicolor Electrochromic Dye-Doped Liquid Crystal Yolkâ€“Shell Microcapsules. ACS Applied Materials & Interfaces, 2020, 12, 29728-29736. | 4.0 | 7 |
| 77 | Asymmetrically superwetting Janus Double-layer fabric for synchronous oil removal and catalytic reduction of aromatic dyes. Separation and Purification Technology, 2021, 255, 117663. | 3.9 | 7 |
| 78 | Long-life zinc electrodes achieved by oxygen plasma functionalization. Chemical Communications, 2022, 58, 993-996. | 2.2 | 7 |
| 79 | Green Plant Leaf-inspired Smart Camouflage Fabrics for Visible Light and Near-infrared Stealth. Journal of Bionic Engineering, 2022, 19, 788-798. | 2.7 | 7 |
| 80 | Encapsulation of disperse dye by phase separation technique using poly(styrene-maleic acid). Journal of Applied Polymer Science, 2011, 120, 3581-3586. | 1.3 | 6 |
| 81 | Preparation of melamineâ€formaldehyde encapsulated fluorescent dye dispersion and its application to cotton fabric printing. Coloration Technology, 2019, 135, 103-110. | 0.7 | 6 |
| 82 | Structural design of flameâ€retardant phosphatized unsaturated polyester resin. Journal of Applied Polymer Science, 2021, 138, 50853. | 1.3 | 6 |
| 83 | The electric response behavior and microencapsulation of the pigment phthalocyanine green G using interfacial polymerization. Polymer Bulletin, 2011, 67, 1379-1391. | 1.7 | 5 |
| 84 | Preparation of SiO2/PSSS dispersion for formulation of white inkjet ink. Polymer Bulletin, 2015, 72, 963-975. | 1.7 | 5 |
| 85 | All-in-one wearable electronics design: Smart electrochromic liquid-crystal-clad fibers without external electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127535. | 2.3 | 5 |
| 86 | Controlling morphology and particle size of hollow poly(styrene-divinylbenzene) microspheres fabricated by template-based method. Journal of Saudi Chemical Society, 2018, 22, 644-653. | 2.4 | 4 |
| 87 | Meta-mordant Dyeing with Camellia sinensis (L.) O. Ktze var. waldensae (S.Y.Hu) Chang (Yellow-bud Tea) Extract for Wool Fabrics Treated by UV Radiation. Fibers and Polymers, 2018, 19, 1255-1265. | 1.1 | 4 |
| 88 | Preparation of Covalent and Solvent-resistance Colored Latex Particles and Its Application on Cotton Fabric. Fibers and Polymers, 2020, 21, 1685-1693. | 1.1 | 4 |
| 89 | Preparation and property optimization of bistable electrochromic microcapsules. Dyes and Pigments, 2022, 197, 109936. | 2.0 | 4 |
| 90 | Novel Bistable Electrochromic Devices Inspired by â€œHydroxylâ€Acidsâ€• Advanced Electronic Materials, 2022, 8, . | 2.6 | 4 |

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|---|---|---|---|
| 91 | Mechanism and properties of coloured nanoscale SiO<sub>2</sub> prepared from silica and reactive dyes. Coloration Technology, 2016, 132, 399-406. | 0.7 | 3 |
| 92 | Synthesis and Characterization of Aâ€Bâ€Aâ€Type Nonionic Dimeric Dispersants for Pigment Dispersion. Journal of Surfactants and Detergents, 2019, 22, 885-895. | 1.0 | 3 |
| 93 | Synthesis and characterization of carbon black modified by polylactic acid (PLAâ€•g â€CB) as pigment for dope dyeing of black PLA fibers. Journal of Applied Polymer Science, 2020, 137, 48784. | 1.3 | 3 |
| 94 | Robust and non-fluorinated superhydrophobic meshes with controllable pore size for high-efficiency water-in-oil emulsion separation. Separation Science and Technology, 2021, 56, 1699-1709. | 1.3 | 3 |
| 95 | Preparation of cationic pigment dispersions by surface grafting of polystyreneâ€maleic anhydride with glycidyltriethylammonium chloride. Journal of Applied Polymer Science, 2009, 112, 1448-1453. | 1.3 | 2 |
| 96 | Properties of copper phthalocyanine blue encapsulated with a copolymer of styrene and maleic acid. Journal of Applied Polymer Science, 2010, 117, 211-215. | 1.3 | 2 |
| 97 | Preparation of camphor oil/latex dispersion for the control of camphor oil release. Polymer Bulletin, 2016, 73, 1267-1281. | 1.7 | 2 |
| 98 | Ultrahigh-sensitivity thermochromic smart fabrics and flexible temperature sensors based on intramolecular proton-coupled electron transfer. Chemical Engineering Journal, 2022, 446, 136444. | 6.6 | 2 |
| 99 | Adsorption behaviour of carbon black/latex by cationised cotton fabrics. Coloration Technology, 2015, 131, 444-450. | 0.7 | 1 |
| 100 | Modification of carbon black pigment: Cotton fabric colouring and antiâ€bacterial finishing. Coloration Technology, 2020, 136, 370-380. | 0.7 | 1 |
| 101 | Alkali resistance mechanism of cyano-containing heterocyclic disperse dyes. Journal of Molecular Structure, 2022, 1265, 133438. | 1.8 | 1 |
| 102 | Visible Light Induced Photodegradation of Capsicum Red Pigment by Tm/TiO2-Loaded Cotton. Journal of Advanced Oxidation Technologies, 2011, 14, . | 0.5 | 0 |
| 103 | Roles of hydrothermal-alkaline treatment in tannery sludge reduction: rheological properties and sludge reduction mechanism analysis. RSC Advances, 2020, 10, 14291-14298. | 1.7 | 0 |