

# Aiqin Hou

## List of Publications by Year in descending order

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71  
papers

1,642  
citations

257101

24  
h-index

344852

36  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using supercritical carbon dioxide as solvent to replace water in polyethylene terephthalate (PET) fabric dyeing procedures. <i>Journal of Cleaner Production</i> , 2010, 18, 1009-1014.	4.6	105
2	Preparation and characterization of durable antibacterial cellulose biomaterials modified with triazine derivatives. <i>Carbohydrate Polymers</i> , 2009, 75, 328-332.	5.1	99
3	Light- and Humidity-Responsive Chiral Nematic Photonic Crystal Films Based on Cellulose Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24505-24511.	4.0	76
4	Smart color-changing paper packaging sensors with pH sensitive chromophores based on azo-anthraquinone reactive dyes. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 362-369.	4.0	73
5	Preparation of the cellulose/silica hybrid containing cationic group by sol-gel crosslinking process and its dyeing properties. <i>Carbohydrate Polymers</i> , 2009, 77, 201-205.	5.1	58
6	Multifunctional finishing of cotton fabrics with 3,3',4,4'-benzophenone tetracarboxylic dianhydride: Reaction mechanism. <i>Carbohydrate Polymers</i> , 2013, 95, 768-772.	5.1	55
7	Effect of microwave irradiation on the physical properties and morphological structures of cotton cellulose. <i>Carbohydrate Polymers</i> , 2008, 74, 934-937.	5.1	54
8	Synthesis of fluorine-containing acrylate copolymer and application as resins on dyed polyester microfiber fabric. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1778-1782.	1.3	47
9	Assembly of a Fluorescent Chiral Photonic Crystal Membrane and Its Sensitive Responses to Multiple Signals Induced by Small Molecules. <i>ACS Nano</i> , 2020, 14, 7380-7388.	7.3	42
10	UV Light-Induced Generation of Reactive Oxygen Species and Antimicrobial Properties of Cellulose Fabric Modified by 3,3',4,4'-Benzophenone Tetracarboxylic Acid. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27918-27924.	4.0	41
11	Dyeing and diffusion properties of modified novel cellulose with triazine derivatives containing cationic and anionic groups. <i>Carbohydrate Polymers</i> , 2008, 72, 646-651.	5.1	40
12	Low liquor dyeing of cotton fabric with reactive dye by an eco-friendly technique. <i>Journal of Cleaner Production</i> , 2018, 197, 1480-1487.	4.6	39
13	Preparation and UV-protective properties of functional cellulose fabrics based on reactive azobenzene Schiff base derivative. <i>Carbohydrate Polymers</i> , 2012, 87, 284-288.	5.1	38
14	Light-induced antibacterial and UV-protective properties of polyamide 56 biomaterial modified with anthraquinone and benzophenone derivatives. <i>Materials and Design</i> , 2017, 130, 215-222.	3.3	31
15	Kinetics of dyeing of polyester with CI Disperse Blue 79 in supercritical carbon dioxide. <i>Coloration Technology</i> , 2005, 121, 18-20.	0.7	30
16	New polymer materials based on silicone-acrylic copolymer to improve fastness properties of reactive dyes on cotton fabrics. <i>Journal of Applied Polymer Science</i> , 2006, 100, 720-725.	1.3	30
17	Preparation and surface properties of the polysiloxane material modified with fluorocarbon side chains. <i>European Polymer Journal</i> , 2008, 44, 1696-1700.	2.6	30
18	Chemical Graft of Cellulose with the Ion-Pair Emulsion Containing the Reactive Groups and Its Dyeing Properties. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 1385-1390.	1.3	29

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19	Multifunctional finishing of cotton with 3,3,4,4-benzophenone tetracarboxylic acid: Functional performance. <i>Carbohydrate Polymers</i> , 2013, 96, 435-439.	5.1	29
20	Synthesis of novel green reactive dyes and relationship between their structures and printing properties. <i>Dyes and Pigments</i> , 2020, 174, 108079.	2.0	29
21	Effect of supercritical carbon dioxide dyeing conditions on the chemical and morphological changes of poly(ethylene terephthalate) fibers. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2008-2012.	1.3	28
22	Preparation and characterization of silk/silica hybrid biomaterials by sol-gel crosslinking process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 167, 124-128.	1.7	28
23	Light-Induced Production of Reactive Oxygen Species by a Novel Water-Soluble Benzophenone Derivative Containing Quaternary Ammonium Groups and Its Assembly on the Protein Fiber Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26500-26506.	4.0	26
24	Cleaner production applied to urea-free printing of cotton fabrics using polyethylene glycol polymers as alternative additives. <i>Journal of Cleaner Production</i> , 2016, 124, 126-131.	4.6	25
25	Efficient extraction of cellulose nanocrystals from waste <i>Calotropis gigantea</i> fiber by SO <sub>4</sub> <sup>2-</sup> /TiO <sub>2</sub> nano-solid superacid catalyst combined with ball milling exfoliation. <i>Industrial Crops and Products</i> , 2020, 152, 112524.	2.5	25
26	Low temperature bleaching of cellulose fabric with (N-[4-triethylammoniomethyl]-benzoyl) caprolactam chloride as novel cationic activator for H <sub>2</sub> O <sub>2</sub> bleaching. <i>Carbohydrate Polymers</i> , 2010, 82, 618-622.	5.1	23
27	One-step dyeing of polyethylene terephthalate fabric, combining pretreatment and dyeing using alkali-stable disperse dyes. <i>Coloration Technology</i> , 2013, 129, 438-442.	0.7	23
28	Preparation of multi-functional cellulose containing huge conjugated system and its UV-protective and antibacterial property. <i>Carbohydrate Polymers</i> , 2014, 114, 392-398.	5.1	23
29	Synthesis, Properties, and Application of Cationic Reactive Disperse Dyes Containing Quaternary Group. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 436-439.	1.3	22
30	Chemical and morphological structures of modified novel cellulose with triazine derivatives containing cationic and anionic groups. <i>Carbohydrate Polymers</i> , 2007, 70, 285-290.	5.1	21
31	The surface polymerising of fluoromonomer and the shade-darkening effect on dyed polyester microfibre fabric. <i>Coloration Technology</i> , 2007, 123, 293-297.	0.7	21
32	Polymerization and surface active properties of water-soluble amphiphilic polysiloxane copolymers modified with quaternary ammonium salts and long-carbon chain groups. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 163, 99-104.	1.7	21
33	Uniform dispersion of silica nanoparticles on dyed cellulose surface by sol-gel method. <i>Carbohydrate Polymers</i> , 2010, 79, 578-583.	5.1	21
34	Novel reactive dyes with intramolecular color matching combination containing different chromophores. <i>Dyes and Pigments</i> , 2018, 159, 576-583.	2.0	21
35	Efficient antimicrobial silk composites using synergistic effects of violacein and silver nanoparticles. <i>Materials Science and Engineering C</i> , 2019, 103, 109821.	3.8	20
36	Functional modification of cellulose fabrics with phthalocyanine derivatives and the UV light-induced antibacterial performance. <i>Carbohydrate Polymers</i> , 2018, 201, 382-386.	5.1	19

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37	Extraction of Natural Dye from Aerial Parts of Argy Wormwood Based on Optimized Taguchi Approach and Functional Finishing of Cotton Fabric. <i>Materials</i> , 2021, 14, 5850.	1.3	18
38	Modifying Cellulose with the Emulsion of the Triazine Derivative Containing the Tertiary Amino Group to Improve the Reactivity with Reactive Dyes. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 643-648.	1.3	17
39	Silicone nanomicelle dyeing using the nanoemulsion containing highly dispersed dyes for polyester fabrics. <i>Journal of Cleaner Production</i> , 2018, 200, 48-53.	4.6	16
40	One-bath dyeing of wool/acrylic blends with reactive cationic dyes based on monofluorotriazine. <i>Coloration Technology</i> , 2004, 120, 307-310.	0.7	15
41	Dyeing properties of net-modified cotton fabric with triazine derivative containing the multireactive and multicationic groups. <i>Journal of Applied Polymer Science</i> , 2006, 100, 4388-4392.	1.3	15
42	Self-assembly of the polysiloxane modified with cationic and perfluorocarbon groups on the polyester surface and its effect on the color shade of the dyed polyester. <i>Journal of Polymer Research</i> , 2009, 16, 687-692.	1.2	15
43	Preparation of Microemulsions of the Polysiloxanes Modified with Different Amines and Their Effect on the Color Shade of Dyed Cellulose. <i>Journal of Dispersion Science and Technology</i> , 2009, 31, 102-107.	1.3	15
44	Diffusion properties of reactive dyes into net modified cotton cellulose with triazine derivative. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2166-2171.	1.3	14
45	Dyeing properties of the disperse dyes containing cyano group based on benzisothiazole for polyester fabrics under alkali condition. <i>Fibers and Polymers</i> , 2017, 18, 1956-1961.	1.1	14
46	Dispersion of disperse yellow BROB with polymer surfactants and its dyeing property for polyester fabric. <i>Fibers and Polymers</i> , 2015, 16, 614-620.	1.1	13
47	Preparation and Properties of the Emulsions of the Polysiloxane Material Modified with Tertiary Amino Side Chain. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 1474-1480.	1.3	12
48	Crystallographic study of two monoazo disperse dyes with a D- <i>l</i> -A system. <i>Coloration Technology</i> , 2015, 131, 38-42.	0.7	12
49	3D heterogeneous CTF@TiO <sub>2</sub> /Bi <sub>2</sub> WO <sub>6</sub> /Au hybrid supported by hollow carbon tubes and its efficient photocatalytic performance in the UV-vis range. <i>Environmental Science: Nano</i> , 2020, 7, 2061-2072.	2.2	11
50	Color Analysis of the Nano-Structured Dyed Cellulose Materials containing Inorganic Particles. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, .	0.4	10
51	Decolorisation of reactive dye wastewater and the effect of surfactants using laccase. <i>Coloration Technology</i> , 2011, 127, 200-204.	0.7	10
52	Rapid and environmental-friendly continuous gel-dyeing of polyacrylonitrile fiber with cationic dyes. <i>Journal of Cleaner Production</i> , 2020, 274, 122935.	4.6	10
53	The crystal morphology of C. I. Disperse Blue 79 in supercritical carbon dioxide. <i>Dyes and Pigments</i> , 2009, 82, 71-75.	2.0	9
54	Light-controllable antibacterial composite films based on modified waterborne polyurethane. <i>Progress in Organic Coatings</i> , 2020, 149, 105940.	1.9	9

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55	A supersensitive fluorescent probe for biothiols by regulating the click reaction and its application in glutathione detection in food samples. <i>Dyes and Pigments</i> , 2022, 200, 110164.	2.0	9
56	The morphological structures of net-modified cotton cellulose with triazine derivative containing multireactive groups. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2700-2707.	1.3	8
57	Preparation of high-aspect-ratio cellulose nanocrystals by solvothermal synthesis followed by mechanical exfoliation. <i>Cellulose</i> , 2019, 26, 5937-5945.	2.4	8
58	Effect of Reactive Dye Structures and Substituents on Cellulose Fabric Dyeing. <i>Fibers and Polymers</i> , 2020, 21, 2018-2023.	1.1	7
59	Morphological structures of the cellulose hybrids containing polyhedral oligomeric silsesquioxane and their application for removing C.I. Reactive Red 250. <i>Fibers and Polymers</i> , 2014, 15, 1399-1405.	1.1	5
60	Effect of Calcium Chloride on Dyeing Property of Polyamide 66 Based on Reactive Anthraquinone Dyes with Different Structure. <i>Fibers and Polymers</i> , 2019, 20, 2140-2145.	1.1	5
61	Synthesis and Dyeing Properties of New Bi-heterocyclic Disperse Dyes Containing Pyridone Group for Polyester Fabrics. <i>Fibers and Polymers</i> , 2020, 21, 1743-1749.	1.1	5
62	Crystal morphology, dispersing stability and dyeing property of the disperse dye based on benzisothiazole. <i>Pigment and Resin Technology</i> , 2014, 43, 365-370.	0.5	4
63	Controllable wavelength-selective optical composite based on nano-polymeric films with doped dyes. <i>Composites Science and Technology</i> , 2019, 172, 1-6.	3.8	3
64	Study on the leveling properties of derivatives of polyethylene glycol for supermilling acid dyes on wool fabrics. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1922-1926.	1.3	2
65	Preparation and Characterization of the Hybrids Containing Silica Nanoparticles by Sol-Gel Crosslinking Process. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 1254-1259.	1.3	2
66	Synthesis and Characterization of Functionalized Polyorganosiloxanes Containing Amino and Fluorocarbon Side Chains. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 321-326.	1.3	2
67	The effects of functional polysiloxane resins on the color gamut and color yield of dyed polyester. <i>Color Research and Application</i> , 2012, 37, 72-75.	0.8	2
68	Multi-functional fluorescence cellulose composites based on a modified amphiphilic waterborne polyurethane by covalent suspension of the triazine groups. <i>Progress in Organic Coatings</i> , 2021, 158, 106386.	1.9	2
69	Self-emulsifying polysiloxanes containing multi-cationic groups as resin to improve fastness properties of dyed cellulose fabrics. <i>Pigment and Resin Technology</i> , 2011, 40, 111-117.	0.5	1
70	Efficient Photocatalytic Activity of TiO <sub>2</sub> Nanocrystals Modified with Organic Electron Donor and Barium Doping for Azo Group Decomposition Under UV Irradiation. <i>Catalysis Letters</i> , 2017, 147, 2697-2705.	1.4	0
71	The effect of degree of curvature and fabric orientation on the impact properties of single and multilayer textile composites. <i>Journal of the Textile Institute</i> , 2022, 113, 54-59.	1.0	0