

Haisong Qi

List of Publications by Year in descending order

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91
papers

4,470
citations

109264

35
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110317

64
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all docs

94
docs citations

94
times ranked

4384
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifilament Fibers Based on Dissolution of Cellulose in NaOH/Urea Aqueous Solution: Structure and Properties. <i>Advanced Materials</i> , 2007, 19, 821-825.	11.1	338
2	Properties of Films Composed of Cellulose Nanowhiskers and a Cellulose Matrix Regenerated from Alkali/Urea Solution. <i>Biomacromolecules</i> , 2009, 10, 1597-1602.	2.6	236
3	Properties and applications of biodegradable transparent and photoluminescent cellulose films prepared via a green process. <i>Green Chemistry</i> , 2009, 11, 177-184.	4.6	217
4	Effects of temperature and molecular weight on dissolution of cellulose in NaOH/urea aqueous solution. <i>Cellulose</i> , 2008, 15, 779-787.	2.4	200
5	Highly Stretchable and Compressible Cellulose Ionic Hydrogels for Flexible Strain Sensors. <i>Biomacromolecules</i> , 2019, 20, 2096-2104.	2.6	171
6	Transparent, Highly Stretchable, Rehealable, Sensing, and Fully Recyclable Ionic Conductors Fabricated by One-Step Polymerization Based on a Small Biological Molecule. <i>Advanced Functional Materials</i> , 2019, 29, 1902467.	7.8	154
7	Multifunctional Cellulose/rGO/Fe ₃ O ₄ Composite Aerogels for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22088-22098.	4.0	136
8	Strategy towards one-step preparation of carboxylic cellulose nanocrystals and nanofibrils with high yield, carboxylation and highly stable dispersibility using innocuous citric acid. <i>Green Chemistry</i> , 2019, 21, 1956-1964.	4.6	129
9	Zirconium-lignosulfonate polyphenolic polymer for highly efficient hydrogen transfer of biomass-derived oxygenates under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 31-43.	10.8	126
10	Smart cellulose/graphene composites fabricated by <i>in situ</i> chemical reduction of graphene oxide for multiple sensing applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7777-7785.	5.2	118
11	Novel Carbon Nanotube/Cellulose Composite Fibers As Multifunctional Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22404-22412.	4.0	114
12	Multifunctional films composed of carbon nanotubes and cellulose regenerated from alkaline-urea solution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2161-2168.	5.2	108
13	Carbon nanotube-cellulose composite aerogels for vapour sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 20-26.	4.0	95
14	Ultrastretchable and Antifreezing Double-Cross-Linked Cellulose Ionic Hydrogels with High Strain Sensitivity under a Broad Range of Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14256-14265.	3.2	93
15	Multifunctional Liquid-Free Ionic Conductive Elastomer Fabricated by Liquid Metal Induced Polymerization. <i>Advanced Functional Materials</i> , 2021, 31, 2101957.	7.8	86
16	The dissolution of cellulose in NaOH-based aqueous system by two-step process. <i>Cellulose</i> , 2011, 18, 237-245.	2.4	83
17	Role of sodium zincate on cellulose dissolution in NaOH/urea aqueous solution at low temperature. <i>Carbohydrate Polymers</i> , 2011, 83, 1185-1191.	5.1	83
18	Highly Stretchable, Transparent, and Conductive Wood Fabricated by <i>In Situ</i> Photopolymerization with Polymerizable Deep Eutectic Solvents. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14313-14321.	4.0	83

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19	Effective photocatalytic degradation and physical adsorption of methylene blue using cellulose/GO/TiO ₂ hydrogels. RSC Advances, 2020, 10, 23936-23943.	1.7	80
20	Sustainable hydrothermal self-assembly of hafnium-lignosulfonate nanohybrids for highly efficient reductive upgrading of 5-hydroxymethylfurfural. Green Chemistry, 2019, 21, 1421-1431.	4.6	78
21	Unique water sensors based on carbon nanotube-cellulose composites. Sensors and Actuators B: Chemical, 2013, 185, 225-230.	4.0	74
22	Electrically conductive aerogels composed of cellulose and carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 9714.	5.2	72
23	Cellulose-carbon nanotube composite aerogels as novel thermoelectric materials. Composites Science and Technology, 2018, 163, 133-140.	3.8	72
24	Homogenous carboxymethylation of cellulose in the NaOH/urea aqueous solution. Reactive and Functional Polymers, 2009, 69, 779-784.	2.0	64
25	Cellulose fibres with carbon nanotube networks for water sensing. Journal of Materials Chemistry A, 2014, 2, 5541-5547.	5.2	60
26	Smart Cellulose Fibers Coated with Carbon Nanotube Networks. Fibers, 2014, 2, 295-307.	1.8	59
27	Highly stretchable, transparent and conductive double-network ionic hydrogels for strain and pressure sensors with ultrahigh sensitivity. Journal of Materials Chemistry C, 2021, 9, 3635-3641.	2.7	59
28	Direct Dissolution of Cellulose in NaOH/Urea/Lipoic Acid Aqueous Solution to Fabricate All Biomass-Based Nitrogen, Sulfur Dual-Doped Hierarchical Porous Carbon Aerogels for Supercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 21528-21538.	4.0	58
29	<i>In situ</i> MnO _x /N-doped carbon aerogels from cellulose as monolithic and highly efficient catalysts for the upgrading of bioderived aldehydes. Green Chemistry, 2018, 20, 3593-3603.	4.6	54
30	Cellulose Nanofiber-Reinforced Ionic Conductors for Multifunctional Sensors and Devices. ACS Applied Materials & Interfaces, 2020, 12, 27545-27554.	4.0	54
31	Electrospinning of Cellulose-Based Fibers From NaOH/Urea Aqueous System. Macromolecular Materials and Engineering, 2010, 295, 695-700.	1.7	49
32	Facile gelation of a fully polymeric conductive hydrogel activated by liquid metal nanoparticles. Journal of Materials Chemistry A, 2021, 9, 24539-24547.	5.2	47
33	Facile solvent-free synthesis of multifunctional and recyclable ionic conductive elastomers from small biomass molecules for green wearable electronics. Journal of Materials Chemistry A, 2021, 9, 13115-13124.	5.2	43
34	Cellulose melt processing assisted by small biomass molecule to fabricate recyclable ionogels for versatile stretchable triboelectric nanogenerators. Nano Energy, 2021, 90, 106619.	8.2	39
35	Water cast film formability of sugarcane bagasse xylans favored by side groups. Cellulose, 2020, 27, 7307-7320.	2.4	37
36	Properties and Bioapplications of Blended Cellulose and Corn Protein Films. Macromolecular Bioscience, 2009, 9, 849-856.	2.1	36

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37	High Electromagnetic Interference Shielding Effectiveness of Carbon Nanotubeâ€“Cellulose Composite Films with Layered Structures. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800377.	1.7	34
38	Tough, Highly Oriented, Super Thermal Insulating Regenerated All-Cellulose Sponge-Aerogel Fibers Integrating a Graded Aligned Nanostructure. <i>Nano Letters</i> , 2022, 22, 3516-3524.	4.5	34
39	Highly Sensitive, Flexible, Stable, and Hydrophobic Biofoam Based on Wheat Flour for Multifunctional Sensor and Adjustable EMI Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30020-30029.	4.0	33
40	Polyimide foams with outstanding flame resistance and mechanical properties by the incorporation of noncovalent bond modified graphene oxide. <i>New Journal of Chemistry</i> , 2020, 44, 12068-12078.	1.4	32
41	Novel PEDOT dispersion by in-situ polymerization based on sulfated nanocellulose. <i>Chemical Engineering Journal</i> , 2021, 418, 129533.	6.6	32
42	Influence of finishing oil on structure and properties of multi-filament fibers from cellulose dope in NaOH/urea aqueous solution. <i>Cellulose</i> , 2008, 15, 81-89.	2.4	31
43	Holocellulose Nanofibril-Assisted Intercalation and Stabilization of Ti₃C₂T_x MXene Inks for Multifunctional Sensing and EMI Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36221-36231.	4.0	30
44	Lignocellulose nanofibril/gelatin/MXene composite aerogel with fire-warning properties for enhanced electromagnetic interference shielding performance. <i>Chemical Engineering Journal</i> , 2022, 431, 133907.	6.6	29
45	Homogenous synthesis of 3-allyloxy-2-hydroxypropyl-cellulose in NaOH/urea aqueous system. <i>Cellulose</i> , 2012, 19, 925-932.	2.4	27
46	Scale-up biopolymer-chelated fabrication of cobalt nanoparticles encapsulated in N-enriched graphene shells for biofuel upgrade with formic acid. <i>Green Chemistry</i> , 2019, 21, 4732-4747.	4.6	26
47	Highly Durable and Flexible Paper Electrode with a Dual Fiber Matrix Structure for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13096-13106.	4.0	23
48	Holocellulose nanofibrils assisted exfoliation to prepare MXene-based composite film with excellent electromagnetic interference shielding performance. <i>Carbohydrate Polymers</i> , 2021, 274, 118652.	5.1	23
49	Effect of Plasticizer on the Morphology and Foaming Properties of Poly(vinyl alcohol) Foams by Supercritical CO2 Foaming Agents. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2878-2885.	2.4	22
50	Scalable Fabrication of Highly Breathable Cotton Textiles with Stable Fluorescent, Antibacterial, Hydrophobic, and UV-Blocking Performance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 34049-34058.	4.0	22
51	Eco-Friendly Bioinspired Interface Design for High-Performance Cellulose Nanofibril/Carbon Nanotube Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55527-55535.	4.0	21
52	Freely Moldable Modified Starch as a Sustainable and Recyclable Plastic. <i>Biomacromolecules</i> , 2021, 22, 2676-2683.	2.6	19
53	Lithium Bonds Enable Small Biomass Moleculeâ€“Based Ionoelastomers with Multiple Functions for Soft Intelligent Electronics. <i>Small</i> , 2022, 18, e2200421.	5.2	18
54	Novel Functional Materials Based on Cellulose. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , .	0.2	17

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55	Exceeding high concentration limits of aqueous dispersion of carbon nanotubes assisted by nanoscale xylan hydrate crystals. <i>Chemical Engineering Journal</i> , 2021, 419, 129602.	6.6	17
56	High-Efficiency Air Filter Media with a Three-Dimensional Network Composed of Core-Shell Zeolitic Imidazolate Framework-8@Tunicate Nanocellulose for PM0.3 Removal. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57921-57929.	4.0	17
57	Green fabrication of high strength, transparent cellulose-based films with durable fluorescence and UV-blocking performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7811-7817.	5.2	17
58	Facile fabrication of a polyvinyl alcohol-based hydrophobic fluorescent film via the Hantzsch reaction for broadband UV protection. <i>Materials Horizons</i> , 2022, 9, 815-824.	6.4	16
59	High strength holocellulose paper from bamboo as biodegradable packaging tape. <i>Carbohydrate Polymers</i> , 2022, 283, 119151.	5.1	16
60	Homogenous Carboxymethylation of Cellulose in the New Alkaline Solvent LiOH/Urea Aqueous Solution. <i>Macromolecular Symposia</i> , 2010, 294, 125-132.	0.4	15
61	Highly Strong and Transparent Ionic Conductive Hydrogel as Multifunctional Sensors. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000475.	1.7	15
62	A Facile Strategy to Fabricate Polysaccharide-Based Magnetic Hydrogel Based on Enamine Bond. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1263-1268.	2.6	15
63	Porous Hafnium-Containing Acid/Base Bifunctional Catalysts for Efficient Upgrading of Bio-Derived Aldehydes. <i>Journal of Bioresources and Bioproducts</i> , 2021, 6, 243-253.	11.8	15
64	Integrated Production of Cellulose Nanofibers and Sodium Carboxymethylcellulose through Controllable Eco-carboxymethylation under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3792-3800.	3.2	14
65	Preliminary Investigations of the Mechanisms Involved in the Ultrasonication-Assisted Production of Carboxylic Cellulose Nanocrystals with Different Structural Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4531-4542.	3.2	14
66	Efficient and portable cellulose-based colorimetric test paper for metal ion detection. <i>Carbohydrate Polymers</i> , 2021, 274, 118635.	5.1	14
67	Facile preparation of lignin-containing cellulose nanofibrils from sugarcane bagasse by mild soda-oxygen pulping. <i>Carbohydrate Polymers</i> , 2022, 290, 119480.	5.1	13
68	The removal of stickies with modified starch and chitosan-Highly cationic and hydrophobic types compared with unmodified ones. <i>Carbohydrate Polymers</i> , 2012, 90, 1712-1718.	5.1	12
69	Wet-strength agent improves recyclability of dip-catalyst fabricated from gold nanoparticle-embedded bacterial cellulose and plant fibers. <i>Cellulose</i> , 2019, 26, 3375-3386.	2.4	12
70	High recycling performance of holocellulose paper made from sisal fibers. <i>Industrial Crops and Products</i> , 2022, 176, 114389.	2.5	11
71	Holocellulose nanofibrils assisted exfoliation of boron nitride nanosheets for thermal management nanocomposite films. <i>Carbohydrate Polymers</i> , 2022, 291, 119578.	5.1	11
72	Surfactant-assisted synthesis of mesoporous hafnium-imidazolecarboxylic acid hybrids for highly efficient hydrogen transfer of biomass-derived carboxides. <i>Molecular Catalysis</i> , 2019, 479, 110611.	1.0	10

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73	A sustainable natural nanofibrous confinement strategy to obtain ultrafine Co ₃ O ₄ nanocatalysts embedded in N-enriched carbon fibers for efficient biomass-derivative <i>in situ</i> hydrogenation. <i>Nanoscale</i> , 2020, 12, 17373-17384.	2.8	10
74	Highly stable silver nanowire dispersion assisted by sulfated holocellulose nanofibers for functional materials. <i>Composites Science and Technology</i> , 2022, 219, 109211.	3.8	10
75	Aerogels Based on Reduced Graphene Oxide/Cellulose Composites: Preparation and Vapour Sensing Abilities. <i>Nanomaterials</i> , 2020, 10, 1729.	1.9	9
76	A novel cellulose-derived carbon aerogel@Na ₂ Ti ₃ O ₇ / composite for efficient photocatalytic degradation of methylene blue. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51347.	1.3	9
77	Acetylated cellulose nanofibers fabricated through chemo-mechanical process for stabilizing pickering emulsion. <i>Cellulose</i> , 2021, 28, 9677-9687.	2.4	7
78	Highly conductive and multifunctional nanocomposites based on sulfated nanocellulose-assisted high dispersion limit of single-walled carbon nanotubes. <i>Carbon</i> , 2021, 183, 187-195.	5.4	7
79	High throughput preparation of antioxidant polysaccharide-based polymers with UV-resistant and antibacterial performance. <i>Food Hydrocolloids</i> , 2022, 133, 107936.	5.6	7
80	Fabrication of tailored carboxymethyl-functionalized cellulose nanofibers via chemo-mechanical process from waste cotton textile. <i>Cellulose</i> , 2021, 28, 7663-7673.	2.4	6
81	Functional Polymeric Materials Based on Cellulose. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-2.	1.2	4
82	Parameterization of classical nonpolarizable force field for hydroxide toward the large-scale molecular dynamics simulation of cellulose in pre-cooled alkali/urea aqueous solution. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51477.	1.3	4
83	Structure Development in Regenerated Cellulose Fibers Wet-Spun from Environmentally Friendly NaOH/Urea Aqueous Solutions Containing Cellulose I ₂ Crystals. <i>Journal of Biobased Materials and Bioenergy</i> , 2007, 1, 266-273.	0.1	4
84	Preparation and Properties of Cellulose/Poly(vinyl alcohol) Blend Films Based on Dissolution in a Non-Toxic Solvent System. <i>Journal of Biobased Materials and Bioenergy</i> , 2009, 3, 199-204.	0.1	4
85	High stability and recyclable cellulose-based fluorescent paper derived from waste bagasse for anti-counterfeiting. <i>Cellulose</i> , 2022, 29, 5765-5778.	2.4	4
86	Cellulose-Based Functional and Smart Materials. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 45-67.	0.2	3
87	An Environment-Friendly Dip-Catalyst with Xylan-based Catalytic Paper Coatings. <i>Carbohydrate Polymers</i> , 2021, 275, 118707.	5.1	2
88	Novel Regenerated Cellulosic Materials. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 25-43.	0.2	2
89	Surface sulfation of crab chitin for anisotropic swelling and nanodispersion. <i>Cellulose</i> , 2022, 29, 7099-7109.	2.4	2
90	Nanocellulose-Based Functional Materials. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 69-87.	0.2	1

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91	Starch Formates: Synthesis and Modification. Molecules, 2021, 26, 4882.	1.7	1