

Junlong Song

List of Publications by Year in descending order

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57
papers

1,901
citations

304743

22
h-index

265206

42
g-index

62
all docs

62
docs citations

62
times ranked

2217
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic modification of cellulose and cotton textiles: Methodologies and applications. <i>Journal of Bioresources and Bioproducts</i> , 2020, 5, 1-15.	20.5	304
2	On the polymorphic and morphological changes of cellulose nanocrystals (CNC-I) upon mercerization and conversion to CNC-II. <i>Carbohydrate Polymers</i> , 2016, 143, 327-335.	10.2	160
3	PAPER CHEMISTRY: Approaching super-hydrophobicity from cellulosic materials: A Review. <i>Nordic Pulp and Paper Research Journal</i> , 2013, 28, 216-238.	0.7	150
4	Deposition of silver nanoparticles on cellulosic fibers via stabilization of carboxymethyl groups. <i>Cellulose</i> , 2012, 19, 411-424.	4.9	132
5	Antimicrobial/Biocompatible Hydrogels Dual-Reinforced by Cellulose as Ultrastretchable and Rapid Self-Healing Wound Dressing. <i>Biomacromolecules</i> , 2021, 22, 1654-1663.	5.4	94
6	Development and characterization of thin polymer films relevant to fiber processing. <i>Thin Solid Films</i> , 2009, 517, 4348-4354.	1.8	59
7	Adsorption and Association of a Symmetric PEO-PPO-PEO Triblock Copolymer on Polypropylene, Polyethylene, and Cellulose Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2349-2357.	8.0	58
8	Rapid dissolution of cellulose in an $\text{AlCl}_3/\text{ZnCl}_2$ aqueous system at room temperature and its versatile adaptability in functional materials. <i>Green Chemistry</i> , 2022, 24, 885-897.	9.0	54
9	Residual lignin in cellulose nanofibrils enhances the interfacial stabilization of Pickering emulsions. <i>Carbohydrate Polymers</i> , 2021, 253, 117223.	10.2	48
10	Comparison of sodium carbonate-“oxygen and sodium hydroxide-“oxygen pretreatments on the chemical composition and enzymatic saccharification of wheat straw. <i>Bioresource Technology</i> , 2014, 161, 63-68.	9.6	46
11	Multilayer surface construction for enhancing barrier properties of cellulose-based packaging. <i>Carbohydrate Polymers</i> , 2021, 255, 117431.	10.2	46
12	Thermally stable and green cellulose-based composites strengthened by styrene-co-acrylate latex for lithium-ion battery separators. <i>Carbohydrate Polymers</i> , 2019, 206, 801-810.	10.2	45
13	Lignin-based catalysts for Chinese fir furfurylation to improve dimensional stability and mechanical properties. <i>Industrial Crops and Products</i> , 2017, 107, 38-44.	5.2	42
14	Effect of lignin on performance of lignocellulose nanofibrils for durable superhydrophobic surface. <i>Cellulose</i> , 2019, 26, 933-944.	4.9	38
15	A flavonoid monomer tricetin in Gramineous plants: Metabolism, bio/chemosynthesis, biological properties, and toxicology. <i>Food Chemistry</i> , 2020, 320, 126617.	8.2	35
16	Dual-responsive carboxymethyl cellulose/dopamine/cystamine hydrogels driven by dynamic metal-ligand and redox linkages for controllable release of agrochemical. <i>Carbohydrate Polymers</i> , 2021, 253, 117188.	10.2	35
17	Effect of Charge Asymmetry on Adsorption and Phase Separation of Polyampholytes on Silica and Cellulose Surfaces. <i>Journal of Physical Chemistry B</i> , 2010, 114, 719-727.	2.6	32
18	Highly-efficient nitrogen self-doped biochar for versatile dyes-removal prepared from soybean cake via a simple dual-templating approach and associated thermodynamics. <i>Journal of Cleaner Production</i> , 2022, 332, 130069.	9.3	32

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19	Au@h-Al ₂ O ₃ analogic yolk-shell nanocatalyst for highly selective synthesis of biomass-derived xylonic acid via regulation of structure effects. <i>Green Chemistry</i> , 2018, 20, 5188-5195.	9.0	31
20	Understanding the promoting effect of non-catalytic protein on enzymatic hydrolysis efficiency of lignocelluloses. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	26
21	Interactions between type A carbohydrate binding modules and cellulose studied with a quartz crystal microbalance with dissipation monitoring. <i>Cellulose</i> , 2020, 27, 3661-3675.	4.9	25
22	Bimodal Mesoporous Silica Nanotubes Fabricated by Dual Templates of CTAB and Bare Nanocrystalline Cellulose. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 708-714.	3.7	23
23	To understand the superior hydrolytic activity after polymorphic conversion from cellulose I to II from the adsorption behaviors of enzymes. <i>Cellulose</i> , 2017, 24, 1371-1381.	4.9	23
24	Binding affinity of family 4 carbohydrate binding module on cellulose films of nanocrystals and nanofibrils. <i>Carbohydrate Polymers</i> , 2021, 251, 116725.	10.2	23
25	Charge and the dry-strength performance of polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 301, 23-32.	4.7	22
26	Electrostatic assembly of core-corona silica nanoparticles onto cotton fibers. <i>Cellulose</i> , 2013, 20, 1727-1736.	4.9	21
27	Current understanding and optimization strategies for efficient lignin-enzyme interaction: A review. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 274-286.	7.5	20
28	Synthesis of amphoteric cellulose in aqueous NaOH-urea solution in one pot and its application in paper strength enhancement. <i>RSC Advances</i> , 2013, 3, 24586.	3.6	19
29	Surface and Friction Behavior of a Silicone Surfactant Adsorbed on Model Textiles Substrates. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8550-8557.	3.7	16
30	Novel Approach to Prepare Ultrathin Lignocellulosic Film for Monitoring Enzymatic Hydrolysis Process by Quartz Crystal Microbalance. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3837-3844.	6.7	16
31	Grafting polycaprolactone onto alkaline lignin for improved compatibility and processability. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 919-926.	7.5	15
32	FABRICATION OF HOLLOW SILICA NANORODS USING NANOCRYSTALLINE CELLULOSE AS TEMPLATES. <i>BioResources</i> , 2012, 7, .	1.0	14
33	Interactions between fungal cellulases and films of nanofibrillar cellulose determined by a quartz crystal microbalance with dissipation monitoring (QCM-D). <i>Cellulose</i> , 2017, 24, 1947-1956.	4.9	14
34	Comparison of the interactions between fungal cellulases from different origins and cellulose nanocrystal substrates with different polymorphs. <i>Cellulose</i> , 2018, 25, 1185-1195.	4.9	13
35	Growth factor functionalized biodegradable nanocellulose scaffolds for potential wound healing application. <i>Cellulose</i> , 2021, 28, 5643.	4.9	13
36	Binding preference of family 1 carbohydrate binding module on nanocrystalline cellulose and nanofibrillar cellulose films assessed by quartz crystal microbalance. <i>Cellulose</i> , 2018, 25, 3327-3337.	4.9	11

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37	Revealing Adsorption Behaviors of Amphoteric Polyacrylamide on Cellulose Fibers and Impact on Dry Strength of Fiber Networks. <i>Polymers</i> , 2019, 11, 1886.	4.5	11
38	Using a Membrane-Penetrating-Peptide to Anchor Ligands in the Liposome Membrane Facilitates Targeted Drug Delivery. <i>Bioconjugate Chemistry</i> , 2020, 31, 113-122.	3.6	10
39	Impacts of degree of substitution of quaternary cellulose on the strength improvement of fiber networks. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 41-44.	7.5	10
40	Role of textile substrate hydrophobicity on the adsorption of hydrosoluble nonionic block copolymers. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 89-96.	9.4	9
41	Lipid-mimicking peptide decorates erythrocyte membrane for active delivery to engrafted MDA-MB-231 breast tumour. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 152, 72-84.	4.3	9
42	Impact of degree of substitution of cationic xylan on strength of cellulose fiber networks along with medium conductivity. <i>Industrial Crops and Products</i> , 2021, 159, 113058.	5.2	9
43	In-situ and real-time probing cellulase biosensor formation and its interaction with lignosulfonate in varied media. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129114.	7.8	9
44	Carbohydrate-Binding Modules of Potential Resources: Occurrence in Nature, Function, and Application in Fiber Recognition and Treatment. <i>Polymers</i> , 2022, 14, 1806.	4.5	9
45	Adsorption of polyalkyl glycol ethers and triblock nonionic polymers on PET. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 174-181.	9.4	8
46	Controlled-release drug carriers based hierarchical silica microtubes templated from cellulose acetate nanofibers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	8
47	Exploring the promoting mechanisms of bovine serum albumin, lignosulfonate, and polyethylene glycol for lignocellulose saccharification from perspective of molecular interactions with cellulase. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103910.	4.9	8
48	A facile approach toward surface sulfonation of natural cotton fibers through epoxy reaction. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1744-1750.	2.6	7
49	Application of Amphoteric Polyacrylamide Solely or with the Combination of Cationic Starch for Paper Strength Improvement. <i>BioResources</i> , 2018, 13, .	1.0	7
50	Polystyrene sulfonate is effective for enhancing biomass enzymatic saccharification under green liquor pretreatment in bioenergy poplar. , 2022, 15, 10.		7
51	Evaluating the refractive index, thickness and porosity of ultrathin cellulose nanocrystal films with different polymorphs by SPR technique. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1209-1214.	7.5	5
52	Mechanisms of Strain-Induced Interfacial Strengthening of Wet-Spun Filaments. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16809-16819.	8.0	5
53	Hierarchically porous tobacco midrib-based biochar prepared by a simple dual-templating approach for highly efficient Rhodamine B removal. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103904.	4.9	4
54	ATRP-tethering Anti-fouling/Anti-fogging Hydrophilic thin Hydrogel Layers on the Surface of Glass Slides. <i>Polymer Science - Series A</i> , 2021, 63, 705-711.	1.0	3

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55	Molecular Weight of Amphoteric Polyacrylamide: How it is Influenced by the Variables in Synthesis, and its Impacts on the Dry Strength of Paper Sheets. BioResources, 2016, 11, .	1.0	2
56	Mapping of β -lactoglobulin α mucin interactions in an in vitro astringency model: Phase compatibility, adsorption mechanism and thermodynamic analysis. Food Hydrocolloids, 2022, 129, 107640.	10.7	2
57	Adsorption of a silicone-based surfactant on polyethylene and polypropylene surfaces and its tribologic performance. Journal of Applied Polymer Science, 2014, 131, .	2.6	1