

# Shilin Cao

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,015  
citations

236925

25  
h-index

243625

44  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2304  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development progress, performance enhancement routes, and applications of paper-based triboelectric nanogenerators. <i>Chemical Engineering Journal</i> , 2022, 430, 132559.	12.7	13
2	Novel functionalization of ZIF-67 for an efficient broad-spectrum photocatalyst: formaldehyde degradation at room temperature. <i>New Journal of Chemistry</i> , 2022, 46, 2962-2970.	2.8	14
3	Cocklebur-structured design of plant fibers for high-performance triboelectric nanogenerators and pressure sensors. <i>Materials Today Communications</i> , 2022, 30, 103208.	1.9	8
4	Fruit Peel-Inspired Super-Stable Ionic Organohydrogel Electronics with Dense Hydrophobic Skin. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4673-4680.	4.4	2
5	Ultra-low pressure cellulose-based nanofiltration membrane fabricated on layer-by-layer assembly for efficient sodium chloride removal. <i>Carbohydrate Polymers</i> , 2021, 255, 117352.	10.2	33
6	Fruit-battery-inspired self-powered stretchable hydrogel-based ionic skin that works effectively in extreme environments. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3968-3975.	10.3	42
7	Synergistic action of EmimAc and aqueous NaOH for selective dissolution of hemicellulose for cellulose purification. <i>Cellulose</i> , 2021, 28, 1331-1338.	4.9	4
8	Insights into the effect of hydrolysis medium on the holocellulose decomposition, furfural, and pseudo-lignin formation. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 1046-1053.	3.7	4
9	Cellulose Paper Modified by a Zinc Oxide Nanosheet Using a ZnCl <sub>2</sub> -Urea Eutectic Solvent for Novel Applications. <i>Nanomaterials</i> , 2021, 11, 1111.	4.1	11
10	Wearable lignin-based hydrogel electronics: A mini-review. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 45-50.	7.5	58
11	An oriented Fe <sup>3+</sup> -regulated lignin-based hydrogel with desired softness, conductivity, stretchability, and asymmetric adhesiveness towards anti-interference pressure sensors. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 282-288.	7.5	31
12	Anti-freezing and moisturizing conductive hydrogels for strain sensing and moist-electric generation applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3109-3118.	10.3	158
13	Effects of hemicellulose content on TEMPO-mediated selective oxidation, and the properties of films prepared from bleached chemical pulp. <i>Cellulose</i> , 2020, 27, 1043-1054.	4.9	9
14	An adaptive ionic skin with multiple stimulus responses and moist-electric generation ability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17498-17506.	10.3	53
15	Ultrafast gelling using sulfonated lignin-Fe <sup>3+</sup> chelates to produce dynamic crosslinked hydrogel/coating with charming stretchable, conductive, self-healing, and ultraviolet-blocking properties. <i>Chemical Engineering Journal</i> , 2020, 396, 125341.	12.7	130
16	Thermophilic Anaerobic Digestion of <i>Arundo donax</i> cv. Lvzhou No. 1 for Biogas Production: Structure and Functional Analysis of Microbial Communities. <i>Bioenergy Research</i> , 2020, 13, 866-877.	3.9	6
17	UV-visible diffuse reflectance spectroscopy used in analysis of lignocellulosic biomass material. <i>Wood Science and Technology</i> , 2020, 54, 837-846.	3.2	6
18	Modified Ti <sub>3</sub> C <sub>2</sub> TX (MXene) nanosheet-catalyzed self-assembled, anti-aggregated, ultra-stretchable, conductive hydrogels for wearable bioelectronics. <i>Chemical Engineering Journal</i> , 2020, 401, 126129.	12.7	92

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19	Comparison of single-stage and two-stage hydrothermal pretreatments for improving hemicellulose separation from bamboo chips. <i>Wood Science and Technology</i> , 2020, 54, 547-557.	3.2	4
20	Turkey Red oil - An effective alkaline extraction booster for enhanced hemicelluloses separation from bamboo kraft pulp and improved fock reactivity of resultant dissolving pulp. <i>Industrial Crops and Products</i> , 2020, 145, 112127.	5.2	5
21	Chemically modified self-doped biocarbon via novel sulfonation assisted sacrificial template method for high performance flexible all solid-state supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 33-42.	9.4	63
22	Limitations on the protective action of MgSO <sub>4</sub> for cellulose during kraft pulp oxygen delignification. <i>BioResources</i> , 2020, 16, 1438-1452.	1.0	1
23	An effective metal controller used for enhancing cellulose protection in oxygen delignification. <i>Cellulose</i> , 2019, 26, 7099-7106.	4.9	2
24	An integrated transparent, UV-filtering organohydrogel sensor <i>via</i> molecular-level ion conductive channels. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4525-4535.	10.3	143
25	Effect of the particle size of magnesium hydroxide on the cellulose polymerization during the oxygen delignification of radiata pine kraft pulp. <i>Cellulose</i> , 2019, 26, 6571-6581.	4.9	2
26	Preparation of highly hazy transparent cellulose film from dissolving pulp. <i>Cellulose</i> , 2019, 26, 4061-4069.	4.9	23
27	Biocompatible, self-wrinkled, antifreezing and stretchable hydrogel-based wearable sensor with PEDOT:sulfonated lignin as conductive materials. <i>Chemical Engineering Journal</i> , 2019, 370, 1039-1047.	12.7	230
28	Adhesive, Transparent Tannic Acid@ Sulfonated Lignin-PAM Ionic Conductive Hydrogel Electrode with Anti-UV, Antibacterial and Mild Antioxidant Function. <i>Materials</i> , 2019, 12, 4135.	2.9	18
29	Preparation of transparent film via cellulose regeneration: Correlations between ionic liquid and film properties. <i>Carbohydrate Polymers</i> , 2019, 203, 214-218.	10.2	53
30	Ultrasoft Self-Healing Nanoparticle-Hydrogel Composites with Conductive and Magnetic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6395-6403.	6.7	87
31	Robust superhydrophobic and superoleophilic filter paper via atom transfer radical polymerization for oil/water separation. <i>Carbohydrate Polymers</i> , 2018, 181, 419-425.	10.2	78
32	The Nature of Hololignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 957-964.	6.7	23
33	Diallyl dimethyl ammonium chloride-grafted cellulose filter membrane via ATRP for selective removal of anionic dye. <i>Cellulose</i> , 2018, 25, 7261-7275.	4.9	38
34	Conductive regenerated cellulose film as counter electrode for efficient dye-sensitized solar cells. <i>Cellulose</i> , 2018, 25, 5113-5122.	4.9	37
35	Preparation and Characterization of Cellulose-Based Nanofiltration Membranes by Interfacial Polymerization with Piperazine and Trimesoyl Chloride. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13168-13176.	6.7	46
36	Synergistic effects of enzyme pretreatment for hemicellulose separation from paper-grade pulp in ionic liquid/water. <i>Cellulose</i> , 2018, 25, 4193-4198.	4.9	7

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37	Facilitate hemicelluloses separation from chemical pulp in ionic liquid/water by xylanase pretreatment. <i>Industrial Crops and Products</i> , 2017, 109, 459-463.	5.2	18
38	Preparation and characterization of cellulose nanofiltration membrane through hydrolysis followed by carboxymethylation. <i>Fibers and Polymers</i> , 2017, 18, 1235-1242.	2.1	13
39	Preparation and Characterization of Antibacterial Cellulose/Chitosan Nanofiltration Membranes. <i>Polymers</i> , 2017, 9, 116.	4.5	50
40	Facile Cellulose Dissolution and Characterization in the Newly Synthesized 1,3-Diallyl-2-ethylimidazolium Acetate Ionic Liquid. <i>Polymers</i> , 2017, 9, 526.	4.5	30
41	Superhydrophobic magnetic poly(DOPAm-co-PFOEA)/Fe <sub>3</sub> O <sub>4</sub> /cellulose microspheres for stable liquid marbles. <i>Chemical Communications</i> , 2016, 52, 1895-1898.	4.1	46
42	Effect of the degree of substitution on the hydrophobicity of acetylated cellulose for production of liquid marbles. <i>Cellulose</i> , 2016, 23, 811-821.	4.9	64
43	A flexible ultraviolet photodetector based on single crystalline MoO <sub>3</sub> nanosheets. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7469-7475.	5.5	64
44	Evaluating effects of benzene-ethanol extraction on molecular weight of lignin isolated from pretreated bamboo substrate. <i>Wood Science and Technology</i> , 2015, 49, 945-955.	3.2	6
45	Toward a further understanding of hydrothermally pretreated holocellulose and isolated pseudo lignin. <i>Cellulose</i> , 2015, 22, 1687-1696.	4.9	66
46	Electron beam irradiation of bamboo chips: degradation of cellulose and hemicelluloses. <i>Cellulose</i> , 2014, 21, 3865-3870.	4.9	24
47	Ordered Organic Nanostructures Fabricated from Anodic Alumina Oxide Templates for Organic Bulk-Heterojunction Photovoltaics. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 584-596.	2.2	18
48	Dual-functional chitosan-methylisothiazolinone/microfibrillated cellulose biocomposites for enhancing antibacterial and mechanical properties of agar films. <i>Cellulose</i> , 2014, 21, 519-528.	4.9	30
49	Synergistic effects of guanidine-grafted CMC on enhancing antimicrobial activity and dry strength of paper. <i>Carbohydrate Polymers</i> , 2014, 110, 382-387.	10.2	32
50	Kinetic study of pentosan solubility during heating and reacting processes of steam treatment of green bamboo. <i>Bioresource Technology</i> , 2013, 130, 769-776.	9.6	20