

Bin Wang

List of Publications by Year in descending order

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59
papers

2,163
citations

172207

29
h-index

243296

44
g-index

61
all docs

61
docs citations

61
times ranked

2082
citing authors

#	ARTICLE	IF	CITATIONS
1	Precisely controlled preparation of uniform nanocrystalline cellulose via microfluidic technology. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 77-85.	2.9	8
2	Characteristics of concentrated lignocellulosic nanofibril suspensions. <i>Cellulose</i> , 2022, 29, 147-158.	2.4	5
3	Facile fabrication of multi superlyophobic nano soil coated-mesh surface with excellent corrosion resistance for efficient immiscible liquids separation. <i>Separation and Purification Technology</i> , 2022, 284, 120266.	3.9	7
4	A self-healing, recyclable and conductive gelatin/nanofibrillated cellulose/Fe ³⁺ hydrogel based on multi-dynamic interactions for a multifunctional strain sensor. <i>Materials Horizons</i> , 2022, 9, 1412-1421.	6.4	53
5	Hollow Structured Kapok Fiber-Based Hierarchical Porous Biocarbons for Ultrahigh Adsorption of Organic Dyes. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4114-4124.	1.8	5
6	Mechanically Strong Electrically Insulated Nanopapers with High UV Resistance Derived from Aramid Nanofibers and Cellulose Nanofibrils. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14640-14653.	4.0	25
7	A design with natural polysaccharide particles and cationic conditioning agent as efficient emulsifier for hair care. <i>Carbohydrate Polymers</i> , 2022, 286, 119311.	5.1	4
8	High-strength and super-hydrophobic multilayered paper based on nano-silica coating and micro-fibrillated cellulose. <i>Carbohydrate Polymers</i> , 2022, 288, 119371.	5.1	20
9	High-Performance and Rapid-Response Electrical Heaters Derived from Cellulose Nanofiber/Silver Nanowire Nanopapers for Portable Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30144-30159.	4.0	17
10	Highly efficient and rapid purification of organic dye wastewater using lignin-derived hierarchical porous carbon. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 158-168.	5.0	34
11	Comparative study on properties of nanocellulose derived from sustainable biomass resources. <i>Cellulose</i> , 2022, 29, 7083-7098.	2.4	11
12	Simultaneous production of clean water and organic dye from dyeing wastewater by reusable lignin-derived porous carbon. <i>Industrial Crops and Products</i> , 2022, 187, 115314.	2.5	13
13	Silver nanoparticles immobilized on cellulose nanofibrils for starch-based nanocomposites with high antibacterial, biocompatible, and mechanical properties. <i>Cellulose</i> , 2021, 28, 855-869.	2.4	25
14	Preparation of nanocellulose in high yield via chemi-mechanical synergy. <i>Carbohydrate Polymers</i> , 2021, 251, 117094.	5.1	50
15	Biodegradable sandwich-architected films derived from pea starch and polylactic acid with enhanced shelf-life for fruit preservation. <i>Carbohydrate Polymers</i> , 2021, 251, 117117.	5.1	58
16	Lignin containing cellulose nanofibers (LCNFs): Lignin content-morphology-rheology relationships. <i>Carbohydrate Polymers</i> , 2021, 254, 117441.	5.1	65
17	Cellulose nanofibrils (CNFs) produced by different mechanical methods to improve mechanical properties of recycled paper. <i>Carbohydrate Polymers</i> , 2021, 254, 117474.	5.1	50
18	Bottom-Up Ecofriendly Strategy for Construction of Sustainable Bacterial Cellulose Bioaerogel with Multifunctional Properties. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002101.	1.9	17

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19	Isolation and rheological characterization of cellulose nanofibrils (CNFs) produced by microfluidic homogenization, ball-milling, grinding and refining. <i>Cellulose</i> , 2021, 28, 3389-3408.	2.4	21
20	Mechanically Flexible Carbon Aerogel with Wavy Layers and Springboard Elastic Supporting Structure for Selective Oil/Organic Solvent Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15910-15924.	4.0	37
21	Chiral Photonic Liquid Crystal Films Derived from Cellulose Nanocrystals. <i>Small</i> , 2021, 17, e2007306.	5.2	54
22	Cellulose nanofibrils manufactured by various methods with application as paper strength additives. <i>Scientific Reports</i> , 2021, 11, 11918.	1.6	37
23	Structural change and redispersion characteristic of dried lignin-containing cellulose nanofibril and its reinforcement in PVA nanocomposite film. <i>Cellulose</i> , 2021, 28, 7749-7764.	2.4	12
24	Silver-Nanoparticle-Embedded Hybrid Nanopaper with Significant Thermal Conductivity Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36171-36181.	4.0	17
25	Cellulosic fiber: mechanical fibrillation-morphology-rheology relationships. <i>Cellulose</i> , 2021, 28, 7651-7662.	2.4	13
26	Structural characterization and antioxidant activities of <i>Bletilla striata</i> polysaccharide extracted by different methods. <i>Carbohydrate Polymers</i> , 2021, 266, 118149.	5.1	90
27	Pickering emulsion stabilized by cellulosic fibers: Morphological properties-interfacial stabilization-rheological behavior relationships. <i>Carbohydrate Polymers</i> , 2021, 269, 118339.	5.1	58
28	Ultralight, flexible and conductive silver nanowire/nanofibrillated cellulose aerogel for multifunctional strain sensor. <i>Chemical Engineering Journal</i> , 2021, 424, 130565.	6.6	55
29	Phosphotungstic acid assisted with neutral deep eutectic solvent boost corn straw pretreatment for enzymatic saccharification and lignin extraction. <i>Industrial Crops and Products</i> , 2021, 172, 114058.	2.5	21
30	Melamine resin-coated lignocellulose fibers with robust superhydrophobicity for highly effective oil/water separation. <i>Separation and Purification Technology</i> , 2021, 279, 119737.	3.9	39
31	Eco-Friendly Superhydrophobic Composites with Thermostability, UV Resistance, and Coating Transparency. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61681-61692.	4.0	16
32	Cellulose nanocrystal dye as reinforcement matrix of lipstick for inhibiting color migration. <i>Cellulose</i> , 2020, 27, 905-913.	2.4	18
33	Degradable dual superhydrophobic lignocellulosic fibers for high-efficiency oil/water separation. <i>Green Chemistry</i> , 2020, 22, 504-512.	4.6	95
34	Effect of lignin content on the microstructural characteristics of lignocellulose nanofibrils. <i>Cellulose</i> , 2020, 27, 1327-1340.	2.4	22
35	The mechanism of Cu (II) adsorption onto 2,3-dialdehyde nano-fibrillated celluloses. <i>Carbohydrate Polymers</i> , 2020, 230, 115631.	5.1	24
36	Synthesis of cationic acrylate copolyvidone-iodine nanoparticles with double active centers and their antibacterial application. <i>Nanoscale</i> , 2020, 12, 21940-21950.	2.8	24

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37	Scalable and Robust Bacterial Cellulose Carbon Aerogels as Reusable Absorbents for High-Efficiency Oil/Water Separation. <i>ACS Applied Bio Materials</i> , 2020, 3, 7483-7491.	2.3	45
38	Waterborne fluorescent dual anti-counterfeiting ink based on Yb/Er-carbon quantum dots grafted with dialdehyde nano-fibrillated cellulose. <i>Carbohydrate Polymers</i> , 2020, 247, 116721.	5.1	37
39	Efficient fractionation of cellulose nanofibers using spiral microchannel. <i>Cellulose</i> , 2020, 27, 4029-4041.	2.4	6
40	Catalytic transformation of cellulose into short rod-like cellulose nanofibers and platform chemicals over lignin-based solid acid. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118732.	10.8	36
41	Distribution analysis of cellulose nanofibrils in paper handsheets: Dye-labeled Method. <i>Carbohydrate Polymers</i> , 2020, 239, 116226.	5.1	6
42	Endoglucanase recycling for disintegrating cellulosic fibers to fibrils. <i>Carbohydrate Polymers</i> , 2019, 223, 115052.	5.1	7
43	Flexible and Hierarchical 3D Interconnected Silver Nanowires/Cellulosic Paper-Based Thermoelectric Sheets with Superior Electrical Conductivity and Ultrahigh Thermal Dispersion Capability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39088-39099.	4.0	39
44	A water solvent-assisted condensation polymerization strategy of superhydrophobic lignocellulosic fibers for efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16447-16457.	5.2	61
45	Development and characterization of bilayer films based on pea starch/polylactic acid and use in the cherry tomatoes packaging. <i>Carbohydrate Polymers</i> , 2019, 222, 114912.	5.1	106
46	Thermal pyrolysis characteristics and kinetics of hemicellulose isolated from <i>Camellia Oleifera</i> Shell. <i>Bioresource Technology</i> , 2019, 282, 228-235.	4.8	47
47	Effect of nanocellulose fiber hornification on water fraction characteristics and hydroxyl accessibility during dehydration. <i>Carbohydrate Polymers</i> , 2019, 207, 44-51.	5.1	47
48	Controlled Release and Long-Term Antibacterial Activity of Dialdehyde Nanofibrillated Cellulose/Silver Nanoparticle Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1146-1158.	3.2	85
49	Effect of retention rate of fluorescent cellulose nanofibrils on paper properties and structure. <i>Carbohydrate Polymers</i> , 2018, 186, 73-81.	5.1	31
50	Freeze-Casting Produces a Graphene Oxide Aerogel with a Radial and Centrosymmetric Structure. <i>ACS Nano</i> , 2018, 12, 5816-5825.	7.3	273
51	Deconstruction of cellulosic fibers to fibrils based on enzymatic pretreatment. <i>Bioresource Technology</i> , 2018, 267, 426-430.	4.8	43
52	An effective method for determining the retention and distribution of cellulose nanofibrils in paper handsheets by dye labeling. <i>Tappi Journal</i> , 2018, 17, 157-164.	0.2	6
53	Effects of colloidal complexes formation between resveratrol and deamidated gliadin on the bioaccessibility and lipid oxidative stability. <i>Food Hydrocolloids</i> , 2017, 69, 466-472.	5.6	41
54	Photochromic paper from wood pulp modification via layer-by-layer assembly of pulp fiber/chitosan/spiropyran. <i>Carbohydrate Polymers</i> , 2017, 157, 704-710.	5.1	36

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55	Influence of binding mechanism on labeling efficiency and luminous properties of fluorescent cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017, 175, 105-112.	5.1	27
56	Efficient Degradation of Methylene Blue by the Nano TiO ₂ -functionalized Graphene Oxide Nanocomposite Photocatalyst for Wastewater Treatment. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	14
57	Thermal Dynamics and a Comparison of the Thermal Stability of Various Non-Wood Pulps. <i>BioResources</i> , 2015, 11, .	0.5	1
58	Photoresponsive nanogels synthesized using spiropyrane- ϵ -modified pullulan as potential drug carriers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	9
59	Stimulus-responsive polymeric micelles for the light-triggered release of drugs. <i>Carbohydrate Polymers</i> , 2014, 103, 510-519.	5.1	39