

Huining Xiao

List of Publications by Year in descending order

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186
papers

9,282
citations

36303

51
h-index

51608

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186
all docs

186
docs citations

186
times ranked

9751
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial Polymeric Materials with Quaternary Ammonium and Phosphonium Salts. <i>International Journal of Molecular Sciences</i> , 2015, 16, 3626-3655.	4.1	434
2	Mechanistic investigation of the enhanced NH ₃ -SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 297-308.	20.2	388
3	Superhydrophobic modification of cellulose and cotton textiles: Methodologies and applications. <i>Journal of Bioresources and Bioproducts</i> , 2020, 5, 1-15.	20.5	304
4	Single and binary adsorption of heavy metal ions from aqueous solutions using sugarcane cellulose-based adsorbent. <i>Bioresource Technology</i> , 2017, 241, 482-490.	9.6	265
5	Effect of nano-packing on preservation quality of Chinese jujube (<i>Ziziphus jujuba</i> Mill. var. <i>inermis</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	8.2	239
6	Hydrophobic-modified nano-cellulose fiber/PLA biodegradable composites for lowering water vapor transmission rate (WVTR) of paper. <i>Carbohydrate Polymers</i> , 2014, 111, 442-448.	10.2	220
7	Co ₃ O ₄ quantum dots/TiO ₂ nanobelt hybrids for highly efficient photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 396-403.	20.2	218
8	Natural Polymer-Based Antimicrobial Hydrogels without Synthetic Antibiotics as Wound Dressings. <i>Biomacromolecules</i> , 2020, 21, 2983-3006.	5.4	207
9	Nanocellulose as a sustainable biomass material: structure, properties, present status and future prospects in biomedical applications. <i>Nanoscale</i> , 2017, 9, 14758-14781.	5.6	198
10	A stretchable, self-healing conductive hydrogels based on nanocellulose supported graphene towards wearable monitoring of human motion. <i>Carbohydrate Polymers</i> , 2020, 250, 116905.	10.2	184
11	Black NiO-TiO ₂ nanorods for solar photocatalysis: Recognition of electronic structure and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 705-714.	20.2	177
12	Fabrication of superhydrophobic paper surface via wax mixture coating. <i>Chemical Engineering Journal</i> , 2014, 250, 431-436.	12.7	156
13	Soil burial biodegradation of antimicrobial biodegradable PBAT films. <i>Polymer Degradation and Stability</i> , 2015, 116, 14-22.	5.8	145
14	Drug carrier systems based on water-soluble cationic β -cyclodextrin polymers. <i>International Journal of Pharmaceutics</i> , 2004, 278, 329-342.	5.2	129
15	Self-Recovery, Fatigue-Resistant, and Multifunctional Sensor Assembled by a Nanocellulose/Carbon Nanotube Nanocomplex-Mediated Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50281-50297.	8.0	125
16	Nanocellulose-based lightweight porous materials: A review. <i>Carbohydrate Polymers</i> , 2021, 255, 117489.	10.2	118
17	Highly Dispersed NiCo ₂ O ₄ Nanodots Decorated Three-Dimensional g-C ₃ N ₄ for Enhanced Photocatalytic H ₂ Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12428-12438.	6.7	115
18	Highly stretchable and self-healing cellulose nanofiber-mediated conductive hydrogel towards strain sensing application. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 171-181.	9.4	114

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19	Ethylene scavengers for the preservation of fruits and vegetables: A review. <i>Food Chemistry</i> , 2021, 337, 127750.	8.2	110
20	Flocculation behaviour and mechanisms of cationic inorganic microparticle/polymer systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 197, 225-234.	4.7	109
21	Modified guanidine polymers: Synthesis and antimicrobial mechanism revealed by AFM. <i>Polymer</i> , 2008, 49, 2471-2475.	3.8	105
22	Methods and applications of nanocellulose loaded with inorganic nanomaterials: A review. <i>Carbohydrate Polymers</i> , 2020, 229, 115454.	10.2	103
23	Quaternary Ammonium β -Cyclodextrin Nanoparticles for Enhancing Doxorubicin Permeability across the In Vitro Blood-Brain Barrier. <i>Biomacromolecules</i> , 2009, 10, 505-516.	5.4	98
24	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
25	Highly viscoelastic, stretchable, conductive, and self-healing strain sensors based on cellulose nanofiber-reinforced polyacrylic acid hydrogel. <i>Cellulose</i> , 2021, 28, 4295-4311.	4.9	92
26	Synthesis of Modified Guanidine-Based Polymers and their Antimicrobial Activities Revealed by AFM and CLSM. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1895-1901.	8.0	89
27	Novel Composite Adsorbent Consisting of Dissolved Cellulose Fiber/Microfibrillated Cellulose for Dye Removal from Aqueous Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6994-7002.	6.7	85
28	Facile synthesis of tube-shaped Mn-Ni-Ti solid solution and preferable Langmuir-Hinshelwood mechanism for selective catalytic reduction of NO by NH ₃ . <i>Applied Catalysis A: General</i> , 2018, 549, 289-301.	4.3	83
29	Synergistic effects of chitosan-guanidine complexes on enhancing antimicrobial activity and wet-strength of paper. <i>Bioresource Technology</i> , 2010, 101, 5693-5700.	9.6	82
30	Self-Healable Electro-Conductive Hydrogels Based on Core-Shell Structured Nanocellulose/Carbon Nanotubes Hybrids for Use as Flexible Supercapacitors. <i>Nanomaterials</i> , 2020, 10, 112.	4.1	80
31	Antimicrobial-modified sulfite pulps prepared by in situ copolymerization. <i>Carbohydrate Polymers</i> , 2007, 69, 688-696.	10.2	74
32	Development of Lignin and Nanocellulose Enhanced Bio PU Foams for Automotive Parts. <i>Journal of Polymers and the Environment</i> , 2014, 22, 279-288.	5.0	74
33	A Skin-Inspired Stretchable, Self-Healing and Electro-Conductive Hydrogel with a Synergistic Triple Network for Wearable Strain Sensors Applied in Human-Motion Detection. <i>Nanomaterials</i> , 2019, 9, 1737.	4.1	74
34	Inherently Conductive Poly(dimethylsiloxane) Elastomers Synergistically Mediated by Nanocellulose/Carbon Nanotube Nanohybrids toward Highly Sensitive, Stretchable, and Durable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59142-59153.	8.0	70
35	Structure and properties of cellulose/poly(N-isopropylacrylamide) hydrogels prepared by SIPN strategy. <i>Carbohydrate Polymers</i> , 2013, 94, 749-754.	10.2	68
36	Thermally conductive, super flexible and flame-retardant BN-OH/PVA composite film reinforced by lignin nanoparticles. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14159-14169.	5.5	66

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37	Biological Activities and Emerging Roles of Lignin and Lignin-Based Productsâ”€A Review. <i>Biomacromolecules</i> , 2021, 22, 4905-4918.	5.4	65
38	Preparation of novel antimicrobial-modified starch and its adsorption on cellulose fibers: Part I. Optimization of synthetic conditions and antimicrobial activities. <i>Cellulose</i> , 2008, 15, 609-618.	4.9	63
39	N-doped porous carbon nanofibers fabricated by bacterial cellulose-directed templating growth of MOF crystals for efficient oxygen reduction reaction and sodium-ion storage. <i>Carbon</i> , 2020, 168, 12-21.	10.3	63
40	Temperature and pH responsive cellulose filament/poly (NIPAM-co-AAc) hybrids as novel adsorbent towards Pb(II) removal. <i>Carbohydrate Polymers</i> , 2018, 195, 495-504.	10.2	62
41	Functionalized porous magnetic cellulose/Fe ₃ O ₄ beads prepared from ionic liquid for removal of dyes from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 309-316.	7.5	61
42	21-Arm star polymers with different cationic groups based on cyclodextrin core for DNA delivery. <i>Carbohydrate Polymers</i> , 2010, 79, 277-283.	10.2	60
43	Absorbents based on maleic anhydride-modified cellulose fibers/diatomite for dye removal. <i>Journal of Materials Science</i> , 2014, 49, 6696-6704.	3.7	59
44	Synthesis and antimicrobial characterization of novel L-lysine gemini surfactants pended with reactive groups. <i>Tetrahedron Letters</i> , 2008, 49, 1759-1761.	1.4	58
45	Amino-functionalized alkaline clay with cationic star-shaped polymer as adsorbents for removal of Cr(VI) in aqueous solution. <i>Applied Surface Science</i> , 2016, 385, 333-340.	6.1	58
46	Preparation and characterization of inclusion complexes of a cationic β -cyclodextrin polymer with butylparaben or triclosan. <i>International Journal of Pharmaceutics</i> , 2008, 357, 244-251.	5.2	57
47	Adsorption of Hg (II) ions from aqueous solution by diethylenetriaminepentaacetic acid-modified cellulose. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 149-156.	7.5	57
48	Inhibiting Mercury Re-emission and Enhancing Magnesia Recovery by Cobalt-Loaded Carbon Nanotubes in a Novel Magnesia Desulfurization Process. <i>Environmental Science & Technology</i> , 2017, 51, 11346-11353.	10.0	55
49	Controlled Release of Agrochemicals Using pH and Redox Dual-Responsive Cellulose Nanogels. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6700-6707.	5.2	55
50	Rendering cellulose fibers antimicrobial using cationic β -cyclodextrin-based polymers included with antibiotics. <i>Cellulose</i> , 2009, 16, 309-317.	4.9	54
51	Tailorâ”€Made Antimicrobial/Antiviral Star Polymer via ATRP of Cyclodextrin and Guanidineâ”€Based Macromonomer. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 511-518.	2.2	54
52	Bioinspired self-assembled films of carboxymethyl celluloseâ”€dopamine/montmorillonite. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14033-14041.	10.3	54
53	Redox-responsive carboxymethyl cellulose hydrogel for adsorption and controlled release of dye. <i>European Polymer Journal</i> , 2020, 123, 109447.	5.4	54
54	Controlled release of agrochemicals and heavy metal ion capture dual-functional redox-responsive hydrogel for soil remediation. <i>Chemical Communications</i> , 2018, 54, 13714-13717.	4.1	52

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55	Thermal and pH dual-responsive cellulose microfilament spheres for dye removal in single and binary systems. <i>Journal of Hazardous Materials</i> , 2019, 377, 88-97.	12.4	51
56	Novel cellulose/montmorillonite mesoporous composite beads for dye removal in single and binary systems. <i>Bioresource Technology</i> , 2019, 286, 121366.	9.6	51
57	Polycyclodextrins: Synthesis, functionalization, and applications. <i>Carbohydrate Polymers</i> , 2020, 242, 116277.	10.2	51
58	Reactive coating of soybean oil-based polymer on nanofibrillated cellulose film for water vapor barrier packaging. <i>Carbohydrate Polymers</i> , 2014, 111, 524-529.	10.2	48
59	Hydrophobic modification of bagasse cellulose fibers with cationic latex: Adsorption kinetics and mechanism. <i>Chemical Engineering Journal</i> , 2016, 302, 33-43.	12.7	47
60	Uniform dispersion of cobalt nanoparticles over nonporous TiO ₂ with low activation energy for magnesium sulfate recovery in a novel magnesia-based desulfurization process. <i>Journal of Hazardous Materials</i> , 2018, 342, 579-588.	12.4	47
61	Cationic Polymers with Tailored Structures for Rendering Polysaccharide-Based Materials Antimicrobial: An Overview. <i>Polymers</i> , 2019, 11, 1283.	4.5	47
62	Multilayer surface construction for enhancing barrier properties of cellulose-based packaging. <i>Carbohydrate Polymers</i> , 2021, 255, 117431.	10.2	46
63	Antiviral/antibacterial biodegradable cellulose nonwovens as environmentally friendly and bioprotective materials with potential to minimize microplastic pollution. <i>Journal of Hazardous Materials</i> , 2022, 424, 127391.	12.4	46
64	Dual-responsive IPN hydrogel based on sugarcane bagasse cellulose as drug carrier. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 132-140.	7.5	45
65	Non-leaching antimicrobial biodegradable PBAT films through a facile and novel approach. <i>Materials Science and Engineering C</i> , 2016, 58, 986-991.	7.3	43
66	Water-resistant cellulosic filter containing non-leaching antimicrobial starch for water purification and disinfection. <i>Carbohydrate Polymers</i> , 2017, 163, 146-152.	10.2	42
67	Starch-Based Flexible Coating for Food Packaging Paper with Exceptional Hydrophobicity and Antimicrobial Activity. <i>Polymers</i> , 2018, 10, 1260.	4.5	41
68	Functional-modified polyurethanes for rendering surfaces antimicrobial: An overview. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102235.	14.7	41
69	Engineering a ratiometric fluorescent sensor membrane containing carbon dots for efficient fluoride detection and removal. <i>Chemical Engineering Journal</i> , 2020, 399, 125741.	12.7	41
70	Characteristics of CO ₂ adsorption on biochar derived from biomass pyrolysis in molten salt. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2352-2360.	1.7	40
71	ZnO nanoparticles enhanced hydrophobicity for starch film and paper. <i>Materials Letters</i> , 2018, 230, 207-210.	2.6	40
72	Construction of three-dimensional g-C ₃ N ₄ /attapulgate hybrids for Cd(II) adsorption and the reutilization of waste adsorbent. <i>Applied Surface Science</i> , 2020, 504, 144456.	6.1	40

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73	Dye removal from single and binary systems using gel-like bioadsorbent based on functional-modified cellulose. <i>Cellulose</i> , 2018, 25, 2559-2575.	4.9	39
74	Magnetic Fe ₃ O ₄ /attapulgite hybrids for Cd(II) adsorption: Performance, mechanism and recovery. <i>Journal of Hazardous Materials</i> , 2021, 412, 125237.	12.4	39
75	Effect of lignin on performance of lignocellulose nanofibrils for durable superhydrophobic surface. <i>Cellulose</i> , 2019, 26, 933-944.	4.9	38
76	Recent advances on the bacterial cellulose-derived carbon aerogels. <i>Journal of Materials Chemistry C</i> , 2021, 9, 818-828.	5.5	38
77	Thiomers of Chitosan and Cellulose: Effective Biosorbents for Detection, Removal and Recovery of Metal Ions from Aqueous Medium. <i>Chemical Record</i> , 2021, 21, 1876-1896.	5.8	38
78	Clay flocculation improved by cationic poly(vinyl alcohol)/anionic polymer dual-component system. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 420-425.	9.4	37
79	Dual-Functional Beeswaxes on Enhancing Antimicrobial Activity and Water Vapor Barrier Property of Paper. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3464-3468.	8.0	36
80	Fluorescence-sensitive adsorbent based on cellulose using for mercury detection and removal from aqueous solution with selective "on-off" response. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 1185-1192.	7.5	36
81	Synthesis and antibacterial characterization of gemini surfactant monomers and copolymers. <i>Polymer Chemistry</i> , 2012, 3, 907.	3.9	35
82	Self-healing Polyol/Borax Hydrogels: Fabrications, Properties and Applications. <i>Chemical Record</i> , 2020, 20, 1142-1162.	5.8	35
83	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
84	Synergically Improving Light Harvesting and Charge Transportation of TiO ₂ Nanobelts by Deposition of MoS ₂ for Enhanced Photocatalytic Removal of Cr(VI). <i>Catalysts</i> , 2017, 7, 30.	3.5	34
85	A green and robust solid catalyst facilitating the magnesium sulfite oxidation in the magnesia desulfurization process. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8018-8028.	10.3	33
86	Porous cellulose beads reconstituted from ionic liquid for adsorption of heavy metal ions from aqueous solutions. <i>Cellulose</i> , 2019, 26, 9163-9178.	4.9	32
87	Radical polymerization as a versatile tool for surface grafting of thin hydrogel films. <i>Polymer Chemistry</i> , 2020, 11, 4355-4381.	3.9	32
88	Benzenesulfonic acid-based hydrotropic system for achieving lignocellulose separation and utilization under mild conditions. <i>Bioresource Technology</i> , 2021, 337, 125379.	9.6	32
89	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
90	Cellulose fibers modified with nano-sized antimicrobial polymer latex for pathogen deactivation. <i>Carbohydrate Polymers</i> , 2016, 135, 94-100.	10.2	31

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91	Synthesis of a novel antimicrobial-modified starch and its adsorption on cellulose fibers: part II—adsorption behaviors of cationic starch on cellulose fibers. <i>Cellulose</i> , 2008, 15, 619-629.	4.9	30
92	Novel multi-responsive and sugarcane bagasse cellulose-based nanogels for controllable release of doxorubicin hydrochloride. <i>Materials Science and Engineering C</i> , 2021, 118, 111357.	7.3	30
93	A ratiometric fluorescent hydrogel of controlled thickness prepared continuously using microtomy for the detection and removal of Hg(II). <i>Chemical Engineering Journal</i> , 2021, 426, 131296.	12.7	29
94	Co-site substitution by Mn supported on biomass-derived active carbon for enhancing magnesia desulfurization. <i>Journal of Hazardous Materials</i> , 2019, 365, 531-537.	12.4	28
95	Degradable polyprodrugs: design and therapeutic efficiency. <i>Chemical Society Reviews</i> , 2022, 51, 6652-6703.	38.1	28
96	Synthesis, characterization and antimicrobial activities of water-soluble amphiphilic copolymers containing ciprofloxacin and quaternary ammonium salts. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3704-3713.	5.8	27
97	Adsorption Characteristics of Carbon Dioxide Gas on a Solid Acid Derivative of β -Cyclodextrin. <i>Energy & Fuels</i> , 2017, 31, 4186-4192.	5.1	27
98	Volumetric Mass Transfer Coefficient of Oxygen in An Internal Loop Airlift Reactor with a Convergence-Divergence Draft Tube. <i>Chemical Engineering and Technology</i> , 2000, 23, 597-603.	1.5	26
99	Synergy of wet strength and antimicrobial activity of cellulose paper induced by a novel polymer complex. <i>Materials Letters</i> , 2008, 62, 3610-3612.	2.6	26
100	Synthesis and Characterization of Ciprofloxacin Pendant Antibacterial Cationic Polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 1115-1128.	3.5	26
101	Synthesis and Characterization of Antimicrobial Polyvinyl Pyrrolidone Hydrogel as Wound Dressing. <i>Soft Materials</i> , 2014, 12, 179-187.	1.7	26
102	Virucidal and biodegradable specialty cellulose nonwovens as personal protective equipment against COVID-19 pandemic. <i>Journal of Advanced Research</i> , 2022, 39, 147-156.	9.5	26
103	Novel Anti-Microbial Host-Guest Complexes Based on Cationic β -Cyclodextrin Polymers and Triclosan/Butylparaben. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2244-2248.	3.9	25
104	Cellulase-assisted refining of bleached softwood kraft pulp for making water vapor barrier and grease-resistant paper. <i>Cellulose</i> , 2016, 23, 891-900.	4.9	25
105	Cellulose Spacer-Strategy: Anti-Aggregation-Caused Quenching Membrane for Mercury Ion Detection and Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15182-15189.	6.7	25
106	Thermally Conductive and Electrical Insulation BNNS/CNF Aerogel Nano-Paper. <i>Polymers</i> , 2019, 11, 660.	4.5	24
107	Antibacterial activities and mechanisms of fluorinated graphene and guanidine-modified graphene. <i>RSC Advances</i> , 2016, 6, 8763-8772.	3.6	23
108	Green and Superhydrophobic Coatings Based on Tailor-Modified Lignocellulose Nanofibrils for Self-Cleaning Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20323-20330.	3.7	23

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109	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
110	Starch-Based Composite Films with Enhanced Hydrophobicity, Thermal Stability, and UV-Shielding Efficacy Induced by Lignin Nanoparticles. <i>Biomacromolecules</i> , 2022, 23, 829-838.	5.4	23
111	Preparation and Properties of Nonleaching Antimicrobial Linear Low-Density Polyethylene Films. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1824-1831.	3.7	22
112	The effect of ceria nanoparticles on improving heat resistant properties of fluorosilicone rubber. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	22
113	Layer-by-Layer Assembly for Surface Tethering of Thin Hydrogel Films: Design Strategies and Applications. <i>Chemical Record</i> , 2020, 20, 857-881.	5.8	22
114	Lignocellulosic nanofibril aerogel via gas phase coagulation and diisocyanate modification for solvent absorption. <i>Carbohydrate Polymers</i> , 2022, 278, 119011.	10.2	22
115	Hydrothermal synthesis of nitrogen-doped ordered mesoporous carbon <i>via</i> lysine-assisted self-assembly for efficient CO ₂ capture. <i>RSC Advances</i> , 2020, 10, 2932-2941.	3.6	21
116	Design and Construction of Fluorescent Cellulose Nanocrystals for Biomedical Applications. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	21
117	Adsorption of methyl violet using pH- and temperature-sensitive cellulose filament/poly(NIPAM-co-AAc) hybrid hydrogels. <i>Journal of Materials Science</i> , 2018, 53, 11837-11854.	3.7	20
118	Glyoxal improved functionalization of starch with AZC enhances the hydrophobicity, strength and UV blocking capacities of co-crosslinked polymer. <i>European Polymer Journal</i> , 2019, 110, 385-393.	5.4	20
119	Fluorescent paper-based analytical devices for ultra-sensitive dual-type RNA detections and accurate gastric cancer screening. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113781.	10.1	20
120	Remediation of Cd (II) ions in aqueous and soil phases using novel porous cellulose/chitosan composite spheres loaded with zero-valent iron nanoparticles. <i>Reactive and Functional Polymers</i> , 2022, 173, 105210.	4.1	20
121	Effective syntheses of per-2,3-di- and per-3-O-chloroacetyl- β -cyclodextrins: A new kind of ATRP initiators for star polymers. <i>Tetrahedron Letters</i> , 2010, 51, 2351-2353.	1.4	19
122	Poly lactic acid nanocomposites containing modified nanoclay with synergistic barrier to water vapor for coated paper. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	19
123	Cellulose/nanoclay composite films with high water vapor resistance and mechanical strength. <i>Cellulose</i> , 2015, 22, 3941-3953.	4.9	19
124	An Aminosalicic Acid-Modified Cellulose Composite Used for Mercury (II) Removal from Single and Quarternary Aqueous Solutions. <i>ChemistrySelect</i> , 2018, 3, 10096-10102.	1.5	19
125	Aerogel Perfusion-Prepared h-BN/CNF Composite Film with Multiple Thermally Conductive Pathways and High Thermal Conductivity. <i>Nanomaterials</i> , 2019, 9, 1051.	4.1	19
126	Xanthan gum α mucin complexation: Molecular interactions, thermodynamics, and rheological analysis. <i>Food Hydrocolloids</i> , 2021, 114, 106579.	10.7	19

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127	Hydrodynamics in an Internal Loop Airlift Reactor with a Convergence-Divergence Draft Tube. <i>Chemical Engineering and Technology</i> , 2000, 23, 38-45.	1.5	18
128	Novel comb-like ionenes with aliphatic side chains: synthesis and antimicrobial properties. <i>Journal of Materials Science</i> , 2013, 48, 1162-1171.	3.7	18
129	Comparative study of ultra-lightweight pulp foams obtained from various fibers and reinforced by MFC. <i>Carbohydrate Polymers</i> , 2018, 182, 92-97.	10.2	18
130	Bio-inspired construction of cellulose-based molecular imprinting membrane with selective recognition surface for paclitaxel separation. <i>Applied Surface Science</i> , 2019, 466, 244-253.	6.1	18
131	Porphyrim derived dual-emissive carbon quantum dots: Customizable synthesis and application for intracellular Cu ²⁺ quantification. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130072.	7.8	18
132	Hierarchically porous biochar derived from orthometric integration of wooden and bacterial celluloses for high-performance electromagnetic wave absorption. <i>Composites Science and Technology</i> , 2022, 218, 109184.	7.8	18
133	Novel flocculation system based on 21-arm cationic star polymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 289, 172-178.	4.7	17
134	Cationic-modified microporous zeolites/anionic polymer system for simultaneous removal of dissolved and colloidal substances from wastewater. <i>Separation and Purification Technology</i> , 2006, 49, 264-270.	7.9	17
135	Influence of Fillers on Sizing Efficiency and Hydrolysis of Alkyl Ketene Dimer. <i>Canadian Journal of Chemical Engineering</i> , 2005, 83, 603-606.	1.7	17
136	Immobilizing Laccase on Modified Cellulose/CF Beads to Degrade Chlorinated Biphenyl in Wastewater. <i>Polymers</i> , 2018, 10, 798.	4.5	17
137	Remarkable fluorimetric response and colorimetric sense on the mercury deionization in aqueous solution by a new adsorbent based on chitosan. <i>European Polymer Journal</i> , 2020, 130, 109663.	5.4	17
138	Cellulose-based adsorbents loaded with zero-valent iron for removal of metal ions from contaminated water. <i>Environmental Science and Pollution Research</i> , 2020, 27, 33234-33247.	5.3	17
139	Lignin Redistribution for Enhancing Barrier Properties of Cellulose-Based Materials. <i>Polymers</i> , 2019, 11, 1929.	4.5	16
140	Characteristics of as-prepared biochar derived from catalytic pyrolysis within moderate-temperature ionic liquid for CO ₂ uptake. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 690-704.	1.7	16
141	Dual responsive copolymers-grafted microfibrillated cellulose composites for removing lead ions from aqueous solution. <i>Journal of Cleaner Production</i> , 2020, 258, 120867.	9.3	16
142	Naturally Occurring Exopolysaccharide Nanoparticles: Formation Process and Their Application in Glutathione Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19756-19767.	8.0	16
143	Polyelectrolyte complex containing antimicrobial guanidine-based polymer and its adsorption on cellulose fibers. <i>Holzforschung</i> , 2014, 68, 103-111.	1.9	15
144	Microsphere-structured hydrogel crosslinked by polymerizable protein-based nanospheres. <i>Polymer</i> , 2020, 211, 123114.	3.8	15

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