Meng He

List of Publications by Year
in descending order

455 papers	31,079 citations	3531 90 h-index	7745 150 g-index
464 all docs	464 docs citations	464 times ranked	23418 citing authors

#	Article	IF	Citations
1	Rapid Dissolution of Cellulose in LiOH/Urea and NaOH/Urea Aqueous Solutions. Macromolecular Bioscience, 2005, 5, 539-548.	4.1	844
2	Recent advances in regenerated cellulose materials. Progress in Polymer Science, 2016, 53, 169-206.	24.7	775
3	Superabsorbent hydrogels based on cellulose for smart swelling and controllable delivery. European Polymer Journal, 2010, 46, 92-100.	5.4	668
4	A Hierarchical N/Sâ€Codoped Carbon Anode Fabricated Facilely from Cellulose/Polyaniline Microspheres for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501929.	19.5	460
5	Unique Gelation Behavior of Cellulose in NaOH/Urea Aqueous Solution. Biomacromolecules, 2006, 7, 183-189.	5.4	419
6	Highâ€Strength and Highâ€Toughness Doubleâ€Crossâ€Linked Cellulose Hydrogels: A New Strategy Using Sequential Chemical and Physical Crossâ€Linking. Advanced Functional Materials, 2016, 26, 6279-6287.	14.9	400
7	Dynamic Self-Assembly Induced Rapid Dissolution of Cellulose at Low Temperatures. Macromolecules, 2008, 41, 9345-9351.	4.8	368
8	On-Demand Dissolvable Self-Healing Hydrogel Based on Carboxymethyl Chitosan and Cellulose Nanocrystal for Deep Partial Thickness Burn Wound Healing. ACS Applied Materials & Interfaces, 2018, 10, 41076-41088.	8.0	351
9	Morphology and Properties of Soy Protein Isolate Thermoplastics Reinforced with Chitin Whiskers. Biomacromolecules, 2004, 5, 1046-1051.	5.4	333
10	Cellulose Aerogels from Aqueous Alkali Hydroxideâ€"Urea Solution. ChemSusChem, 2008, 1, 149-154.	6.8	327
11	Highly Efficient Selfâ€Healable and Dual Responsive Celluloseâ€Based Hydrogels for Controlled Release and 3D Cell Culture. Advanced Functional Materials, 2017, 27, 1703174.	14.9	325
12	Adsorption isotherms and kinetics studies of malachite green on chitin hydrogels. Journal of Hazardous Materials, 2012, 209-210, 218-225.	12.4	301
13	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. Nano Energy, 2016, 27, 482-491.	16.0	299
14	Recent advances in chitin based materials constructed via physical methods. Progress in Polymer Science, 2018, 82, 1-33.	24.7	276
15	Dissolution and regeneration of cellulose in NaOH/thiourea aqueous solution. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1521-1529.	2.1	274
16	Ultraâ€Stretchable and Forceâ€Sensitive Hydrogels Reinforced with Chitosan Microspheres Embedded in Polymer Networks. Advanced Materials, 2016, 28, 8037-8044.	21.0	274
17	Correlation between antitumor activity, molecular weight, and conformation of lentinan. Carbohydrate Research, 2005, 340, 1515-1521.	2.3	273
18	Structure and properties of the nanocomposite films of chitosan reinforced with cellulose whiskers. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1069-1077.	2.1	255

#	Article	IF	Citations
19	High Strength Chitosan Hydrogels with Biocompatibility via New Avenue Based on Constructing Nanofibrous Architecture. Macromolecules, 2015, 48, 2706-2714.	4.8	245
20	Homogeneous Quaternization of Cellulose in NaOH/Urea Aqueous Solutions as Gene Carriers. Biomacromolecules, 2008, 9, 2259-2264.	5.4	244
21	Recent Progress in Highâ€Strength and Robust Regenerated Cellulose Materials. Advanced Materials, 2021, 33, e2000682.	21.0	244
22	Construction of Cellulose Based ZnO Nanocomposite Films with Antibacterial Properties through One-Step Coagulation. ACS Applied Materials & Interfaces, 2015, 7, 2597-2606.	8.0	243
23	Green Fabrication of Amphiphilic Quaternized Î²â€Chitin Derivatives with Excellent Biocompatibility and Antibacterial Activities for Wound Healing. Advanced Materials, 2018, 30, e1801100.	21.0	242
24	Highâ€Flexibility, Highâ€Toughness Doubleâ€Crossâ€Linked Chitin Hydrogels by Sequential Chemical and Physical Crossâ€Linkings. Advanced Materials, 2016, 28, 5844-5849.	21.0	240
25	Structure and properties of hydrogels prepared from cellulose in NaOH/urea aqueous solutions. Carbohydrate Polymers, 2010, 82, 122-127.	10.2	239
26	Swelling Behaviors of pH- and Salt-Responsive Cellulose-Based Hydrogels. Macromolecules, 2011, 44, 1642-1648.	4.8	237
27	Properties of Films Composed of Cellulose Nanowhiskers and a Cellulose Matrix Regenerated from Alkali/Urea Solution. Biomacromolecules, 2009, 10, 1597-1602.	5.4	236
28	Solubility of Cellulose in NaOH/Urea Aqueous Solution. Polymer Journal, 2000, 32, 866-870.	2.7	233
29	Preparation and characterization of chitosan/poly(vinyl alcohol) blend fibers. Journal of Applied Polymer Science, 2001, 80, 2558-2565.	2.6	228
30	Transparent Cellulose Films with High Gas Barrier Properties Fabricated from Aqueous Alkali/Urea Solutions. Biomacromolecules, 2011, 12, 2766-2771.	5.4	223
31	TiO₂ Immobilized in Cellulose Matrix for Photocatalytic Degradation of Phenol under Weak UV Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 7806-7811.	3.1	222
32	Hydrophobic Modification on Surface of Chitin Sponges for Highly Effective Separation of Oil. ACS Applied Materials & Interfaces, 2014, 6, 19933-19942.	8.0	219
33	Preparation of copper nanoparticles coated cellulose films with antibacterial properties through one-step reduction. ACS Applied Materials & Interfaces, 2012, 4, 2897-2902.	8.0	218
34	Properties and applications of biodegradable transparent and photoluminescent cellulose films prepared via a green process. Green Chemistry, 2009, 11, 177-184.	9.0	217
35	Effects of Crosslinking Methods on Structure and Properties of Cellulose/PVA Hydrogels. Macromolecular Chemistry and Physics, 2008, 209, 1266-1273.	2.2	206
36	In situ synthesis of Fe3O4/cellulose microspheres with magnetic-induced protein delivery. Journal of Materials Chemistry, 2009, 19, 3538.	6.7	204

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37	Dilute solution properties of cellulose in LiOH/urea aqueous system. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3093-3101.	2.1	201
38	An effective and recyclable adsorbent for the removal of heavy metal ions from aqueous system: Magnetic chitosan/cellulose microspheres. Bioresource Technology, 2015, 194, 403-406.	9.6	201
39	Effects of temperature and molecular weight on dissolution of cellulose in NaOH/urea aqueous solution. Cellulose, 2008, 15, 779-787.	4.9	200
40	Structure and Properties of Regenerated Cellulose Films Prepared from Cotton Linters in NaOH/Urea Aqueous Solution. Industrial & Engineering Chemistry Research, 2001, 40, 5923-5928.	3.7	199
41	Novel hydrogels prepared via direct dissolution of chitin at low temperature: structure and biocompatibility. Journal of Materials Chemistry, 2011, 21, 3865.	6.7	192
42	Dissolution of cellulose in aqueous NaOH/urea solution: role of urea. Cellulose, 2014, 21, 1183-1192.	4.9	189
43	Novel Fibers Prepared from Cellulose in NaOH/Urea Aqueous Solution. Macromolecular Rapid Communications, 2004, 25, 1558-1562.	3.9	188
44	In Situ Synthesis of Robust Conductive Cellulose/Polypyrrole Composite Aerogels and Their Potential Application in Nerve Regeneration. Angewandte Chemie - International Edition, 2014, 53, 5380-5384.	13.8	186
45	Highly Biocompatible Nanofibrous Microspheres Selfâ€Assembled from Chitin in NaOH/Urea Aqueous Solution as Cell Carriers. Angewandte Chemie - International Edition, 2015, 54, 5152-5156.	13.8	174
46	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. ACS Nano, 2019, 13, 4843-4853.	14.6	174
47	Hydrogels Prepared from Unsubstituted Cellulose in NaOH/Urea Aqueous Solution. Macromolecular Bioscience, 2007, 7, 804-809.	4.1	168
48	Intermolecular Interaction and the Extended Wormlike Chain Conformation of Chitin in NaOH/Urea Aqueous Solution. Biomacromolecules, 2015, 16, 1410-1417.	5.4	164
49	Facile preparation of robust and biocompatible chitin aerogels. Journal of Materials Chemistry, 2012, 22, 5801.	6.7	163
50	Fabrication and characterization of novel macroporous celluloseâ€“alginate hydrogels. Polymer, 2009, 50, 5467-5473.	3.8	154
51	Quaternized Chitosan/Poly(acrylic acid) Polyelectrolyte Complex Hydrogels with Tough, Self-Recovery, and Tunable Mechanical Properties. Macromolecules, 2016, 49, 1049-1059.	4.8	153
52	Strongly fluorescent hydrogels with quantum dots embedded in cellulose matrices. Journal of Materials Chemistry, 2009, 19, 7771.	6.7	146
53	High strength films with gas-barrier fabricated from chitin solution dissolved at low temperature. Journal of Materials Chemistry A, 2013, 1, 1867-1874.	10.3	144
54	Bilayer hydrogel actuators with tight interfacial adhesion fully constructed from natural polysaccharides. Soft Matter, 2017, 13, 345-354.	2.7	144

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55	CdS/Regenerated Cellulose Nanocomposite Films for Highly Efficient Photocatalytic H₂ Production under Visible Light Irradiation. Journal of Physical Chemistry C, 2009, 113, 16021-16026.	3.1	143
56	Transparent, Antifreezing, Ionic Conductive Cellulose Hydrogel with Stable Sensitivity at Subzero Temperature. ACS Applied Materials & Interfaces, 2019, 11, 41710-41716.	8.0	141
57	Highly stretchable, transparent cellulose/PVA composite hydrogel for multiple sensing and triboelectric nanogenerators. Journal of Materials Chemistry A, 2020, 8, 13935-13941.	10.3	140
58	A bioplastic with high strength constructed from a cellulose hydrogel by changing the aggregated structure. Journal of Materials Chemistry A, 2013, 1, 6678.	10.3	138
59	Strong and Rapidly Selfâ€Healing Hydrogels: Potential Hemostatic Materials. Advanced Healthcare Materials, 2016, 5, 2813-2822.	7.6	138
60	Robust Anisotropic Cellulose Hydrogels Fabricated via Strong Self-aggregation Forces for Cardiomyocytes Unidirectional Growth. Chemistry of Materials, 2018, 30, 5175-5183.	6.7	137
61	Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. Biomacromolecules, 2020, 21, 1653-1677.	5.4	137
62	Noncompressible Hemostasis and Bone Regeneration Induced by an Absorbable Bioadhesive Selfâ€Healing Hydrogel. Advanced Functional Materials, 2021, 31, 2009189.	14.9	133
63	Fiberlike Fe₂O₃ Macroporous Nanomaterials Fabricated by Calcinating Regenerate Cellulose Composite Fibers. Chemistry of Materials, 2008, 20, 3623-3628.	6.7	127
64	Construction of selenium nanoparticles/Î²-glucan composites for enhancement of the antitumor activity. Carbohydrate Polymers, 2015, 117, 434-442.	10.2	127
65	Dual Physical Crosslinking Strategy to Construct Moldable Hydrogels with Ultrahigh Strength and Toughness. Advanced Functional Materials, 2018, 28, 1800739.	14.9	125
66	Structure Study of Cellulose Fibers Wet-Spun from Environmentally Friendly NaOH/Urea Aqueous Solutions. Biomacromolecules, 2007, 8, 1918-1926.	5.4	121
67	Fabrication and properties of chitin/hydroxyapatite hybrid hydrogels as scaffold nano-materials. Carbohydrate Polymers, 2013, 91, 7-13.	10.2	121
68	Extremely Strong and Transparent Chitin Films: A Highâ€Efficiency, Energyâ€Saving, and â€œGreenâ€• Route Using an Aqueous KOH/Urea Solution. Advanced Functional Materials, 2017, 27, 1701100.	14.9	121
69	Agâ€“Fe₃O₄ nanocomposites@chitin microspheres constructed by in situ one-pot synthesis for rapid hydrogenation catalysis. Green Chemistry, 2014, 16, 2835-2845.	9.0	120
70	Epichlorohydrin-Cross-linked Hydroxyethyl Cellulose/Soy Protein Isolate Composite Films as Biocompatible and Biodegradable Implants for Tissue Engineering. ACS Applied Materials & Interfaces, 2016, 8, 2781-2795.	8.0	120
71	Micro-Nanostructured Polyaniline Assembled in Cellulose Matrix via Interfacial Polymerization for Applications in Nerve Regeneration. ACS Applied Materials & Interfaces, 2016, 8, 17090-17097.	8.0	117
72	New solvents and functional materials prepared from cellulose solutions in alkali/urea aqueous system. Food Research International, 2013, 52, 387-400.	6.2	116

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73	Dissolution of cellulose from different sources in an NaOH/urea aqueous system at low temperature. Cellulose, 2015, 22, 339-349.	4.9	113
74	4D Printing of Robust Hydrogels Consisted of Agarose Nanofibers and Polyacrylamide. ACS Macro Letters, 2018, 7, 442-446.	4.8	113
75	Thermosensitive injectable in-situ forming carboxymethyl chitin hydrogel for three-dimensional cell culture. Acta Biomaterialia, 2016, 35, 228-237.	8.3	109
76	Preparation and characterization of alginate/gelatin blend fibers. Journal of Applied Polymer Science, 2005, 96, 1625-1629.	2.6	108
77	Biocompatible chitin/carbon nanotubes composite hydrogels as neuronal growth substrates. Carbohydrate Polymers, 2017, 174, 830-840.	10.2	108
78	Efficient adsorption of Hg2+ ions on chitin/cellulose composite membranes prepared via environmentally friendly pathway. Chemical Engineering Journal, 2011, 173, 689-697.	12.7	107
79	High-Strength and Tough Cellulose Hydrogels Chemically Dual Cross-Linked by Using Low- and High-Molecular-Weight Cross-Linkers. Biomacromolecules, 2019, 20, 1989-1995.	5.4	106
80	Effects of Chitin Whiskers on Physical Properties and Osteoblast Culture of Alginate Based Nanocomposite Hydrogels. Biomacromolecules, 2015, 16, 3499-3507.	5.4	105
81	Flexible and Transparent Cellulose-Based Ionic Film as a Humidity Sensor. ACS Applied Materials & Interfaces, 2020, 12, 7631-7638.	8.0	105
82	Structure and Properties of Cellulose/Fe₂O₃ Nanocomposite Fibers Spun via an Effective Pathway. Journal of Physical Chemistry C, 2008, 112, 4538-4544.	3.1	103
83	Effects of Coagulation Conditions on the Properties of Regenerated Cellulose Films Prepared in NaOH/Urea Aqueous Solution. Industrial & Engineering Chemistry Research, 2005, 44, 522-529.	3.7	102
84	Self-assembled micelles based on hydrophobically modified quaternized cellulose for drug delivery. Colloids and Surfaces B: Biointerfaces, 2011, 83, 313-320.	5.0	102
85	Construction of Chitin/PVA Composite Hydrogels with Jellyfish Gel-Like Structure and Their Biocompatibility. Biomacromolecules, 2014, 15, 3358-3365.	5.4	101
86	Yttrium oxide modified Cu/ZnO/Al₂O₃catalysts via hydrotalcite-like precursors for CO₂hydrogenation to methanol. Catalysis Science and Technology, 2015, 5, 4365-4377.	4.1	99
87	Blend films from chitosan and konjac glucomannan solutions. Journal of Applied Polymer Science, 2000, 76, 509-515.	2.6	96
88	Deformation Drives Alignment of Nanofibers in Framework for Inducing Anisotropic Cellulose Hydrogels with High Toughness. ACS Applied Materials & Interfaces, 2017, 9, 43154-43162.	8.0	96
89	Mottâ€“Schottky Effect Leads to Alkyne Semihydrogenation over Pd-Nanocube@N-Doped Carbon. ACS Catalysis, 2019, 9, 4632-4641.	11.2	93
90	Creation of regenerated cellulose microspheres with diameter ranging from micron to millimeter for chromatography applications. Journal of Chromatography A, 2010, 1217, 5922-5929.	3.7	92

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91	Novel fibers fabricated directly from chitin solution and their application as wound dressing. Journal of Materials Chemistry B, 2014, 2, 3427.	5.8	91
92	Effects of polymer concentration and coagulation temperature on the properties of regenerated cellulose films prepared from LiOH/urea solution. Cellulose, 2009, 16, 189-198.	4.9	89
93	Construction of cellulose/nanosilver sponge materials and their antibacterial activities for infected wounds healing. Cellulose, 2016, 23, 749-763.	4.9	89
94	Behavior of cellulose in NaOH/Urea aqueous solution characterized by light scattering and viscometry. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 347-353.	2.1	88
95	Intermolecular Interactions and 3D Structure in Celluloseâ€“NaOHâ€“Urea Aqueous System. Journal of Physical Chemistry B, 2014, 118, 10250-10257.	2.6	88
96	Fast Contact of Solidâ€“Liquid Interface Created High Strength Multi-Layered Cellulose Hydrogels with Controllable Size. ACS Applied Materials & Interfaces, 2014, 6, 1872-1878.	8.0	87
97	Improved Mechanical Properties and Sustained Release Behavior of Cationic Cellulose Nanocrystals Reinforeced Cationic Cellulose Injectable Hydrogels. Biomacromolecules, 2016, 17, 2839-2848.	5.4	87
98	Recyclable Universal Solvents for Chitin to Chitosan with Various Degrees of Acetylation and Construction of Robust Hydrogels. ACS Sustainable Chemistry and Engineering, 2017, 5, 2725-2733.	6.7	87
99	Swelling behaviors of superabsorbent chitin/carboxymethylcellulose hydrogels. Journal of Materials Science, 2014, 49, 2235-2242.	3.7	86
100	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 8040-8047.	6.7	86
101	Transparent, conductive cellulose hydrogel for flexible sensor and triboelectric nanogenerator at subzero temperature. Carbohydrate Polymers, 2021, 265, 118078.	10.2	86
102	BLEND FILMS FROM SODIUM ALGINATE AND GELATIN SOLUTIONS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 317-328.	2.2	83
103	The dissolution of cellulose in NaOH-based aqueous system by two-step process. Cellulose, 2011, 18, 237-245.	4.9	83
104	Synthesis and Photophysical Behavior of Pyreneâ€Bearing Cellulose Nanocrystals for Fe³⁺ Sensing. Macromolecular Chemistry and Physics, 2012, 213, 1612-1617.	2.2	83
105	Novel regenerated cellulose films prepared by coagulating with water: Structure and properties. Carbohydrate Polymers, 2012, 87, 95-100.	10.2	81
106	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 28918-28927.	8.0	78
107	Triple Helix of Î²-D-Glucan from Lentinus Edodes in 0.5 M NaCl Aqueous Solution Characterized by Light Scattering. Polymer Journal, 2001, 33, 317-321.	2.7	77
108	Structure and properties of regenerated cellulose/tourmaline nanocrystal composite films. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 367-373.	2.1	77

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109	Controllable Stearic Acid Crystal Induced High Hydrophobicity on Cellulose Film Surface. ACS Applied Materials & Interfaces, 2013, 5, 585-591.	8.0	76
110	Synthesis of carboxymethyl chitin in aqueous solution and its thermo- and pH-sensitive behaviors. Carbohydrate Polymers, 2016, 137, 600-607.	10.2	75
111	Structure and Properties of Soy Protein Plastics Plasticized with Acetamide. Macromolecular Materials and Engineering, 2006, 291, 820-828.	3.6	74
112	NMR spectroscopic studies on the mechanism of cellulose dissolution in alkali solutions. Cellulose, 2013, 20, 613-621.	4.9	74
113	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. ACS Applied Materials & Interfaces, 2016, 8, 35587-35592.	8.0	74
114	Effectively promoting wound healing with cellulose/gelatin sponges constructed directly from a cellulose solution. Journal of Materials Chemistry B, 2015, 3, 7518-7528.	5.8	73
115	Ampholytic microspheres constructed from chitosan and carrageenan in alkali/urea aqueous solution for purification of various wastewater. Chemical Engineering Journal, 2017, 317, 766-776.	12.7	72
116	A Facile Construction of Supramolecular Complex from Polyaniline and Cellulose in Aqueous System. Macromolecules, 2011, 44, 4565-4568.	4.8	71
117	Fabrication, properties and bioapplications of cellulose/collagen hydrolysate composite films. Carbohydrate Polymers, 2013, 92, 1752-1760.	10.2	71
118	Biocompatible and Biodegradable Bioplastics Constructed from Chitin via a â€œGreenâ€•Pathway for Bone Repair. ACS Sustainable Chemistry and Engineering, 2017, 5, 9126-9135.	6.7	71
119	Effects of lignin as a filler on properties of soy protein plastics. I. Lignosulfonate. Journal of Applied Polymer Science, 2003, 88, 3284-3290.	2.6	70
120	Preparation and properties of cellulose/silver nanocomposite fibers. Carbohydrate Polymers, 2015, 115, 269-275.	10.2	70
121	Tough and Cell-Compatible Chitosan Physical Hydrogels for Mouse Bone Mesenchymal Stem Cells in Vitro. ACS Applied Materials & Interfaces, 2016, 8, 19739-19746.	8.0	70
122	Construction of blood compatible lysine-immobilized chitin/carbon nanotube microspheres and potential applications for blood purified therapy. Journal of Materials Chemistry B, 2017, 5, 2952-2963.	5.8	70
123	Rubbery Chitosan/Carrageenan Hydrogels Constructed through an Electroneutrality System and Their Potential Application as Cartilage Scaffolds. Biomacromolecules, 2018, 19, 340-352.	5.4	70
124	Synthesis and characterization of cellulose derivatives prepared in NaOH/urea aqueous solutions. Journal of Polymer Science Part A, 2004, 42, 5911-5920.	2.3	69
125	Construction of high strength hollow fibers by self-assembly of a stiff polysaccharide with short branches in water. Journal of Materials Chemistry A, 2013, 1, 4198.	10.3	69
126	Chain conformation and anti-tumor activity of derivatives of polysaccharide from Rhizoma Panacis Japonici. Carbohydrate Polymers, 2014, 105, 308-316.	10.2	69

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127	Influence of coagulation temperature on pore size and properties of cellulose membranes prepared from NaOHâ€“urea aqueous solution. Cellulose, 2007, 14, 205-215.	4.9	68
128	Preparation and release behavior of carboxymethylated chitosan/alginate microspheres encapsulating bovine serum albumin. Journal of Applied Polymer Science, 2004, 92, 878-882.	2.6	67
129	Gelation behavior of cellulose in NaOH/urea aqueous system via cross-linking. Cellulose, 2013, 20, 1669-1677.	4.9	67
130	Biocompatible Chitin Hydrogel Incorporated with PEDOT Nanoparticles for Peripheral Nerve Repair. ACS Applied Materials & Interfaces, 2021, 13, 16106-16117.	8.0	67
131	Molecular Weight Effects on Properties of Polyurethane/Nitrokonjac Glucomannan Semiinterpenetrating Polymer Networks. Macromolecules, 2001, 34, 2202-2207.	4.8	66
132	Properties and Structure of Soy Protein Isolateâˆ’Ethylene Glycol Sheets Obtained by Compression Molding. Industrial & Engineering Chemistry Research, 2001, 40, 1879-1883.	3.7	66
133	Portable Visible-Light Photocatalysts Constructed from Cu₂O Nanoparticles and Graphene Oxide in Cellulose Matrix. Journal of Physical Chemistry C, 2014, 118, 7202-7210.	3.1	66
134	Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. Chemistry of Materials, 2019, 31, 2078-2087.	6.7	66
135	Primarily Industrialized Trial of Novel Fibers Spun from Cellulose Dope in NaOH/Urea Aqueous Solution. Industrial & Engineering Chemistry Research, 2010, 49, 11380-11384.	3.7	65
136	Strong cellulose hydrogel as underwater superoleophobic coating for efficient oil/water separation. Carbohydrate Polymers, 2020, 229, 115467.	10.2	65
137	Superior strength and highly thermoconductive cellulose/ boron nitride film by stretch-induced alignment. Journal of Materials Chemistry A, 2021, 9, 10304-10315.	10.3	65
138	Fabrication and Properties of Cellulose Hydrated Membrane with Unique Structure. Macromolecular Chemistry and Physics, 2007, 208, 594-602.	2.2	64
139	Properties of cellulose films prepared from NaOH/urea/zincate aqueous solution at low temperature. Cellulose, 2011, 18, 681-688.	4.9	64
140	Inclusion Complex Formation of Cellulose in NaOHâ€“Thiourea Aqueous System at Low Temperature. Macromolecular Chemistry and Physics, 2007, 208, 2359-2366.	2.2	62
141	Light-promoted N,N-dimethylation of amine and nitro compound with methanol catalyzed by Pd/TiO₂ at room temperature. RSC Advances, 2015, 5, 14514-14521.	3.6	62
142	Cellulose/Chitosan Composite Multifilament Fibers with Two-Switch Shape Memory Performance. ACS Sustainable Chemistry and Engineering, 2019, 7, 6981-6990.	6.7	62
143	Blend membranes from carboxymethylated chitosan/alginate in aqueous solution. Journal of Applied Polymer Science, 2000, 77, 610-616.	2.6	61
144	Effects of nanoscale hydroxypropyl lignin on properties of soy protein plastics. Journal of Applied Polymer Science, 2006, 101, 334-341.	2.6	61

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145	Isolation and characterization of cellulose nanocrystals from pueraria root residue. International Journal of Biological Macromolecules, 2019, 129, 1081-1089.	7.5	61
146	Electrochemical Oxidation Enables Regioselective and Scalable Î±-C(sp³)-H Acyloxylation of Sulfides. Journal of the American Chemical Society, 2021, 143, 3628-3637.	13.7	61
147	Structure and magnetic properties of regenerated cellulose/Fe₃O₄ nanocomposite films. Journal of Applied Polymer Science, 2009, 111, 2477-2484.	2.6	58
148	Structure and properties of hydroxyapatite/cellulose nanocomposite films. Carbohydrate Polymers, 2012, 87, 2512-2518.	10.2	57
149	Polyphenol-mediated chitin self-assembly for constructing a fully naturally resourced hydrogel with high strength and toughness. Materials Horizons, 2021, 8, 2503-2512.	12.2	57
150	Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 5314-5321.	6.7	56
151	Biodegradability of Regenerated Cellulose Films in Soil. Industrial & Engineering Chemistry Research, 1996, 35, 4682-4685.	3.7	55
152	Effects of nitrolignin on mechanical properties of polyurethane-nitrolignin films. Journal of Applied Polymer Science, 2001, 80, 1213-1219.	2.6	55
153	Development of a fixed-bed column with cellulose/chitin beads to remove heavy-metal ions. Journal of Applied Polymer Science, 2004, 94, 684-691.	2.6	55
154	A Rapid Process for Producing Cellulose Multi-Filament Fibers from a NaOH/Thiourea Solvent System. Macromolecular Rapid Communications, 2006, 27, 1495-1500.	3.9	55
155	Hydrophobic Modification of Chitin Whisker and Its Potential Application in Structuring Oil. Langmuir, 2015, 31, 1641-1648.	3.5	55
156	Anti-tumor effect of Î²-glucan from Lentinus edodes and the underlying mechanism. Scientific Reports, 2016, 6, 28802.	3.3	55
157	Customizable Multidimensional Self-Wrinkling Structure Constructed via Modulus Gradient in Chitosan Hydrogels. Chemistry of Materials, 2019, 31, 10032-10039.	6.7	55
158	Biodegradability of Regenerated Cellulose Films Coated with Polyurethane/Natural Polymers Interpenetrating Polymer Networks. Industrial & Engineering Chemistry Research, 1999, 38, 4284-4289.	3.7	54
159	Structure and properties of blend membranes prepared from cellulose and alginate in NaOH/urea aqueous solution. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 451-458.	2.1	54
160	Fiber-like TiO₂ Nanomaterials with Different Crystallinity Phases Fabricated via a Green Pathway. ACS Applied Materials & Interfaces, 2011, 3, 2074-2079.	8.0	54
161	Effect of microcrystal cellulose and cellulose whisker on biocompatibility of cellulose-based electrospun scaffolds. Cellulose, 2013, 20, 1911-1923.	4.9	54
162	Effects of lignin as a filler on properties of soy protein plastics. II. Alkaline lignin. Journal of Applied Polymer Science, 2003, 88, 3291-3297.	2.6	53

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163	Structure and Properties of CdS/Regenerated Cellulose Nanocomposites. Macromolecular Materials and Engineering, 2005, 290, 1017-1024.	3.6	53
164	Homogeneous synthesis and characterization of chitosan ethers prepared in aqueous alkali/urea solutions. Carbohydrate Polymers, 2018, 185, 138-144.	10.2	53
165	2D ultrathin carbon nanosheets with rich N/O content constructed by stripping bulk chitin for high-performance sodium ion batteries. Nanoscale, 2019, 11, 12626-12636.	5.6	53
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