

# Lina Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

506  
papers

31,525  
citations

92  
h-index

146  
g-index

514  
ext. papers

35,620  
ext. citations

6.9  
avg, IF

7.73  
L-index

#	Paper	IF	Citations
506	A quaternized chitin derivatives, egg white protein and montmorillonite composite sponge with antibacterial and hemostatic effect for promoting wound healing. <i>Composites Part B: Engineering</i> , <b>2022</b> , 234, 109661	10	2
505	Loose Pre-Cross-Linking Mediating Cellulose Self-Assembly for 3D Printing Strong and Tough Biomimetic Scaffolds.. <i>Biomacromolecules</i> , <b>2022</b> ,	6.9	3
504	Polyphenol-driving assembly for constructing chitin-polyphenol-metal hydrogel as wound dressing.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 290, 119444	10.3	5
503	Facile fabrication of highly dispersed Pd catalyst on nanoporous chitosan and its application in environmental catalysis.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 286, 119313	10.3	0
502	One-step synthesis of ultra-small silver nanoparticles-loaded triple-helix $\beta$ -glucan nanocomposite for highly catalytic hydrogenation of 4-nitrophenol and dyes. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 136114	14.7	1
501	High-performance triboelectric nanogenerator based on chitin for mechanical-energy harvesting and self-powered sensing. <i>Carbohydrate Polymers</i> , <b>2022</b> , 119586	10.3	0
500	The composites of triple-helix glucan nanotubes/selenium nanoparticles target hepatocellular carcinoma to enhance ferroptosis by depleting glutathione and augmenting redox imbalances. <i>Chemical Engineering Journal</i> , <b>2022</b> , 137110	14.7	1
499	Extracellular matrix-mimicking nanofibrous chitosan microspheres as cell micro-ark for tissue engineering. <i>Carbohydrate Polymers</i> , <b>2022</b> , 119693	10.3	2
498	Solvent Mediating the Self-Assembly of Polysaccharides for 3D Printing Biomimetic Tissue Scaffolds. <i>ACS Nano</i> , <b>2021</b> ,	16.7	1
497	Paper-Based Bipolar Electrode Electrochemiluminescence Platform for Detection of Multiple miRNAs. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1702-1708	7.8	30
496	Recent Progress in High-Strength and Robust Regenerated Cellulose Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000682	24	78
495	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , <b>2021</b> , 256, 117574	10.3	16
494	Biocompatible Chitin Hydrogel Incorporated with PEDOT Nanoparticles for Peripheral Nerve Repair. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16106-16117	9.5	22
493	A novel cationic polyelectrolyte microsphere for ultrafast and ultra-efficient removal of heavy metal ions and dyes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128404	14.7	29
492	Pt(IV) Prodrugs Designed to Embed in Nanotubes of a Polysaccharide for Drug Delivery.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 4841-4848	4.1	1
491	Construction of silver nanoparticles by the triple helical polysaccharide from black fungus and the antibacterial activities. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 1170-1178	7.9	3
490	Insight into Morphology Change of Chitin Microspheres using Tertiary Butyl Alcohol/H <sub>2</sub> O Binary System Freeze-Drying Method. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000502	4.8	2

489	Chitin microsphere supported Pd nanoparticles as an efficient and recoverable catalyst for CO oxidation and Heck coupling reaction. <i>Carbohydrate Polymers</i> , <b>2021</b> , 251, 117020	10.3	8
488	Polyphenol-mediated chitin self-assembly for constructing a fully naturally resourced hydrogel with high strength and toughness. <i>Materials Horizons</i> , <b>2021</b> , 8, 2503-2512	14.4	13
487	Robust, magnetic cellulose/Fe <sub>3</sub> O <sub>4</sub> film with anisotropic sensory property. <i>Cellulose</i> , <b>2021</b> , 28, 2353-2364	4.5	1
486	Noncompressible Hemostasis and Bone Regeneration Induced by an Absorbable Bioadhesive Self-Healing Hydrogel. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009189	15.6	37
485	The effect of cellulose molecular weight on internal structure and properties of regenerated cellulose fibers as spun from the alkali/urea aqueous system. <i>Polymer</i> , <b>2021</b> , 215, 123379	3.9	5
484	Transparent, conductive cellulose hydrogel for flexible sensor and triboelectric nanogenerator at subzero temperature. <i>Carbohydrate Polymers</i> , <b>2021</b> , 265, 118078	10.3	28
483	Biocompatible and biodegradable super-toughness regenerated cellulose via water molecule-assisted molding. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129229	14.7	7
482	Continuous Meter-Scale Wet-Spinning of Cornlike Composite Fibers for Eco-Friendly Multifunctional Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40953-40963	9.5	6
481	Dual-confined SiO encapsulated in PVA derived carbon layer and chitin derived N-doped carbon nanosheets for high-performance lithium storage. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129754	14.7	8
480	Multifunctional chitin-based barrier membrane with antibacterial and osteogenic activities for the treatment of periodontal disease. <i>Carbohydrate Polymers</i> , <b>2021</b> , 269, 118276	10.3	10
479	In situ exfoliated silk fibroin nanoribbons enhanced chitin hydrogel for bile duct restoration. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130088	14.7	4
478	New insights into the anti-hepatoma mechanism of triple-helix $\beta$ -glucan by metabolomics profiling. <i>Carbohydrate Polymers</i> , <b>2021</b> , 269, 118289	10.3	4
477	Surface engineering of cellulose film with myristic acid for high strength, self-cleaning and biodegradable packaging materials. <i>Carbohydrate Polymers</i> , <b>2021</b> , 269, 118315	10.3	1
476	Biocompatible, antibacterial and anti-inflammatory zinc ion cross-linked quaternized cellulose-sodium alginate composite sponges for accelerated wound healing. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 191, 27-39	7.9	3
475	Superior strength and highly thermoconductive cellulose/ boron nitride film by stretch-induced alignment. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10304-10315	13	14
474	Temperature and time-dependent self-assembly and gelation behavior of chitin in aqueous KOH/urea solution. <i>Giant</i> , <b>2020</b> , 4, 100038	5.6	6
473	Facile Construction of a Highly Dispersed Pt Nanocatalyst Anchored on Biomass-Derived N/O-Doped Carbon Nanofibrous Microspheres and Its Catalytic Hydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51459-51467	9.5	6
472	The conversion of nanocellulose into solvent-free nanoscale liquid crystals by attaching long side-arms for multi-responsive optical materials. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11022-11031	7.1	9

471	Rationally exfoliating chitin into 2D hierarchical porous carbon nanosheets for high-rate energy storage. <i>Nano Research</i> , <b>2020</b> , 13, 1604-1613	10	5
470	High-Strength and Tough Crystalline Polysaccharide-Based Materials. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 761-771	4.9	8
469	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. <i>Carbohydrate Polymers</i> , <b>2020</b> , 237, 116114	10.3	22
468	Distinctive Viewpoint on the Rapid Dissolution Mechanism of $\beta$ -Chitin in Aqueous Potassium Hydroxide-Urea Solution at Low Temperatures. <i>Macromolecules</i> , <b>2020</b> , 53, 5588-5598	5.5	17
467	Highly stretchable, transparent cellulose/PVA composite hydrogel for multiple sensing and triboelectric nanogenerators. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13935-13941	13	82
466	Two-Dimensional Wrinkled N-Rich Carbon Nanosheets Fabricated from Chitin via Fast Pyrolysis as Optimized Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	2
465	Universal preparation of cellulose-based colorimetric sensor for heavy metal ion detection. <i>Carbohydrate Polymers</i> , <b>2020</b> , 236, 116037	10.3	13
464	Flexible and Transparent Cellulose-Based Ionic Film as a Humidity Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 7631-7638	9.5	47
463	Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1653-1677	6.9	55
462	Anti-leukemia activities of selenium nanoparticles embedded in nanotube consisted of triple-helix $\beta$ -D-glucan. <i>Carbohydrate Polymers</i> , <b>2020</b> , 240, 116329	10.3	17
461	Strong cellulose hydrogel as underwater superoleophobic coating for efficient oil/water separation. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115467	10.3	37
460	The Evolution of ACS Sustainable Chemistry & Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1-1	8.3	2
459	Flexible and strong Fe <sub>3</sub> O <sub>4</sub> /cellulose composite film as magnetic and UV sensor. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145092	6.7	16
458	Dual Play of Chitin-Derived N-Doped Carbon Nanosheets Enabling High-Performance Na-SeS <sub>2</sub> Half/Full Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 165-173	5.6	11
457	Green and Economical Strategy for Spinning Robust Cellulose Filaments. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14927-14937	8.3	7
456	Natural polysaccharides with different conformations: extraction, structure and anti-tumor activity. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 9652-9667	7.3	17
455	Construction of $\beta$ -FeOOH@tunicate cellulose nanocomposite hydrogels and their highly efficient photocatalytic properties. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115470	10.3	17
454	Editable and bidirectional shape memory chitin hydrogels based on physical/chemical crosslinking. <i>Cellulose</i> , <b>2019</b> , 26, 9085-9094	5.5	4

453	Mechanically Strong Shape-Memory and Solvent-Resistant Double-Network Polyurethane/Nanoporous Cellulose Gel Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15974-15982	8.3	14
452	New Approach for the Fabrication of Carboxymethyl Cellulose Nanofibrils and the Reinforcement Effect in Water-Borne Polyurethane. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11850-11860	8.3	15
451	2D ultrathin carbon nanosheets with rich N/O content constructed by stripping bulk chitin for high-performance sodium ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 12626-12636	7.7	33
450	Stretchable, tough, self-recoverable, and cytocompatible chitosan/cellulose nanocrystals/polyacrylamide hybrid hydrogels. <i>Carbohydrate Polymers</i> , <b>2019</b> , 222, 114977	10.3	31
449	Controllable Wrinkling Patterns on Chitosan Microspheres Generated from Self-Assembling Metal Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22824-22833	9.5	14
448	Strong, transparent cellulose film as gas barrier constructed via water evaporation induced dense packing. <i>Journal of Membrane Science</i> , <b>2019</b> , 585, 99-108	9.6	25
447	Photoelectrochemical biosensor of HIV-1 based on cascaded photoactive materials and triple-helix molecular switch. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 139, 111325	11.8	28
446	Cellulose/Chitosan Composite Multifilament Fibers with Two-Switch Shape Memory Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6981-6990	8.3	41
445	High-Strength and Tough Cellulose Hydrogels Chemically Dual Cross-Linked by Using Low- and High-Molecular-Weight Cross-Linkers. <i>Biomacromolecules</i> , <b>2019</b> , 20, 1989-1995	6.9	55
444	Electrochemiluminescence cytosensing platform based on Ru(bpy) <sub>3</sub> @silica-Au nanocomposite as luminophore and AuPd nanoparticles as coreaction accelerator for in situ evaluation of intracellular HO. <i>Talanta</i> , <b>2019</b> , 199, 485-490	6.2	14
443	Mott-Schottky Effect Leads to Alkyne Semihydrogenation over [email protected] Carbon. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4632-4641	13.1	49
442	Construction of cellulose nanofibers/quaternized chitin/organic rectorite composites and their application as wound dressing materials. <i>Biomaterials Science</i> , <b>2019</b> , 7, 2571-2581	7.4	40
441	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. <i>ACS Nano</i> , <b>2019</b> , 13, 4843-4853	16.7	97
440	Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2078-2087	9.6	41
439	Hierarchical microspheres with macropores fabricated from chitin as 3D cell culture. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5190-5198	7.3	12
438	Transparent, Antifreezing, Ionic Conductive Cellulose Hydrogel with Stable Sensitivity at Subzero Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41710-41716	9.5	79
437	Customizable Multidimensional Self-Wrinkling Structure Constructed via Modulus Gradient in Chitosan Hydrogels. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10032-10039	9.6	32
436	Additive Printed All-Cellulose Membranes with Hierarchical Structure for Highly Efficient Separation of Oil/Water Nanoemulsions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44375-44382	9.5	28

435	Robust chitin films with good biocompatibility and breathable properties. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 361-367	10.3	28
434	Elucidation of molecular pathways responsible for the accelerated wound healing induced by a novel fibrous chitin dressing. <i>Biomaterials Science</i> , <b>2019</b> , 7, 5247-5257	7.4	13
433	Cross-Linked Cellulose Membranes with Robust Mechanical Property, Self-Adaptive Breathability, and Excellent Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19799-19806	8.3	12
432	Chain conformation and biological activities of hyperbranched fucoidan derived from brown algae and its desulfated derivative. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 86-96	10.3	25
431	Injectable, Self-Healing, Chitin-Based Hydrogels with Excellent Cytocompatibility, Antibacterial Activity, and Potential As Drug/Cell Carriers.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 196-204	4.1	28
430	Construction of cellulose/ZnO composite microspheres in NaOH/zinc nitrate aqueous solution via one-step method. <i>Cellulose</i> , <b>2019</b> , 26, 557-568	5.5	11
429	Pd/TiO <sub>2</sub> @ Carbon Microspheres Derived from Chitin for Highly Efficient Photocatalytic Degradation of Volatile Organic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1658-1666	8.3	22
428	Unique Stress Whitening and High-Toughness Double-Cross-Linked Cellulose Films. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1707-1717	8.3	20
427	Construction of size-controllable gold nanoparticles immobilized on polysaccharide nanotubes by in situ one-pot synthesis. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 240-247	7.9	11
426	Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5314-5321	8.3	33
425	Ultra-small Pd clusters supported by chitin nanowires as highly efficient catalysts. <i>Nano Research</i> , <b>2018</b> , 11, 3145-3153	10	25
424	Fabrication of cellulose nanofibers from waste brown algae and their potential application as milk thickeners. <i>Food Hydrocolloids</i> , <b>2018</b> , 79, 473-481	10.6	42
423	Influences of Coagulation Conditions on the Structure and Properties of Regenerated Cellulose Filaments via Wet-Spinning in LiOH/Urea Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4056-4067	8.3	30
422	Rubbery Chitosan/Carrageenan Hydrogels Constructed through an Electroneutrality System and Their Potential Application as Cartilage Scaffolds. <i>Biomacromolecules</i> , <b>2018</b> , 19, 340-352	6.9	49
421	Facile construction of mechanically tough collagen fibers reinforced by chitin nanofibers as cell alignment templates. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 918-929	7.3	13
420	Homogeneous synthesis and characterization of chitosan ethers prepared in aqueous alkali/urea solutions. <i>Carbohydrate Polymers</i> , <b>2018</b> , 185, 138-144	10.3	34
419	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8040-8047	8.3	64
418	Recent advances in chitin based materials constructed via physical methods. <i>Progress in Polymer Science</i> , <b>2018</b> , 82, 1-33	29.6	186

4 <sup>17</sup>	Cationic hydrophobicity promotes dissolution of cellulose in aqueous basic solution by freezing-thawing. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14223-14233	3.6	34
4 <sup>16</sup>	Dual Physical Crosslinking Strategy to Construct Moldable Hydrogels with Ultrahigh Strength and Toughness. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800739	15.6	73
4 <sup>15</sup>	4D Printing of Robust Hydrogels Consisted of Agarose Nanofibers and Polyacrylamide. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 442-446	6.6	75
4 <sup>14</sup>	Induction of mesenchymal stem cell differentiation in the absence of soluble inducer for cutaneous wound regeneration by a chitin nanofiber-based hydrogel. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e867-e880	4.4	30
4 <sup>13</sup>	Phase transition identification of cellulose nanocrystal suspensions derived from various raw materials. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45702	2.9	18
4 <sup>12</sup>	Strength enhanced hydrogels constructed from agarose in alkali/urea aqueous solution and their application. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 177-184	14.7	32
4 <sup>11</sup>	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28918-28927	9.5	51
4 <sup>10</sup>	Flexible Electronics Based on Micro/Nanostructured Paper. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801588	24	185
4 <sup>09</sup>	Size-controllable ultrafine palladium nanoparticles immobilized on calcined chitin microspheres as efficient and recyclable catalysts for hydrogenation. <i>Nanoscale</i> , <b>2018</b> , 10, 14719-14725	7.7	29
4 <sup>08</sup>	Chitin Nanofibrils to Stabilize Long-Life Pickering Foams and Their Application for Lightweight Porous Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10552-10561	8.3	36
4 <sup>07</sup>	Robust Anisotropic Cellulose Hydrogels Fabricated via Strong Self-aggregation Forces for Cardiomyocytes Unidirectional Growth. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5175-5183	9.6	94
4 <sup>06</sup>	Mechanically strong polystyrene nanocomposites by peroxide-induced grafting of styrene monomers within nanoporous cellulose gels. <i>Carbohydrate Polymers</i> , <b>2018</b> , 199, 473-481	10.3	11
4 <sup>05</sup>	Surface-initiated atom transfer radical polymerization grafting from nanoporous cellulose gels to create hydrophobic nanocomposites.. <i>RSC Advances</i> , <b>2018</b> , 8, 27045-27053	3.7	9
4 <sup>04</sup>	Selective hydrothermal degradation of cellulose to formic acid in alkaline solutions. <i>Cellulose</i> , <b>2018</b> , 25, 5659-5668	5.5	5
4 <sup>03</sup>	On-Demand Dissolvable Self-Healing Hydrogel Based on Carboxymethyl Chitosan and Cellulose Nanocrystal for Deep Partial Thickness Burn Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41076-41088	9.5	189
4 <sup>02</sup>	Triple-Helix Conformation of a Polysaccharide Determined with Light Scattering, AFM, and Molecular Dynamics Simulation. <i>Macromolecules</i> , <b>2018</b> , 51, 10150-10159	5.5	27
4 <sup>01</sup>	Super Strong All-Cellulose Composite Filaments by Combination of Inducing Nanofiber Formation and Adding Nanofibrillated Cellulose. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4386-4395	6.9	20
4 <sup>00</sup>	Carbon Nanofibrous Microspheres Promote the Oxidative Double Carbonylation of Alkanes with CO. <i>CheM</i> , <b>2018</b> , 4, 2861-2871	16.2	11

399	Recoverable hydrogel with high stretchability and toughness achieved by low-temperature hydration of Portland cement. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2076-2080	7.8	6
398	Green Fabrication of Amphiphilic Quaternized $\beta$ -Chitin Derivatives with Excellent Biocompatibility and Antibacterial Activities for Wound Healing. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801100	24	169
397	One-step synthesis of size-tunable gold nanoparticles immobilized on chitin nanofibrils via green pathway and their potential applications. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 573-582	14.7	33
396	Nanomaterials-modified cellulose paper as a platform for biosensing applications. <i>Nanoscale</i> , <b>2017</b> , 9, 4366-4382	7.7	85
395	Ultra-lightweight cellulose foam material: preparation and properties. <i>Cellulose</i> , <b>2017</b> , 24, 1417-1426	5.5	32
394	Ampholytic microspheres constructed from chitosan and carrageenan in alkali/urea aqueous solution for purification of various wastewater. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 766-776	14.7	61
393	Cation/macromolecule interaction in alkaline cellulose solution characterized with pulsed field-gradient spin-echo NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 7486-7490	3.6	15
392	Recyclable Universal Solvents for Chitin to Chitosan with Various Degrees of Acetylation and Construction of Robust Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2725-2733	8.3	64
391	Dissolution and Metastable Solution of Cellulose in NaOH/Thiourea at 8 $^{\circ}$ C for Construction of Nanofibers. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 1793-1801	3.4	32
390	Highly Efficient One-Step Purification of Sulfated Polysaccharides via Chitosan Microspheres Adsorbents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3195-3203	8.3	33
389	Extremely Strong and Transparent Chitin Films: A High-Efficiency, Energy-Saving, and $\square$ Green $\square$ Route Using an Aqueous KOH/Urea Solution. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701100	15.6	86
388	Hierarchical Microspheres Constructed from Chitin Nanofibers Penetrated Hydroxyapatite Crystals for Bone Regeneration. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2080-2089	6.9	31
387	Nitrogen-rich hard carbon as a highly durable anode for high-power potassium-ion batteries. <i>Energy Storage Materials</i> , <b>2017</b> , 8, 161-168	19.4	316
386	Construction of highly stable selenium nanoparticles embedded in hollow nanofibers of polysaccharide and their antitumor activities. <i>Nano Research</i> , <b>2017</b> , 10, 3775-3789	10	28
385	Weak interactions and their impact on cellulose dissolution in an alkali/urea aqueous system. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 17909-17917	3.6	18
384	Progress in rigid polysaccharide-based nanocomposites with therapeutic functions. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 5690-5713	7.3	37
383	Construction of blood compatible lysine-immobilized chitin/carbon nanotube microspheres and potential applications for blood purified therapy. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 2952-2963	7.3	49
382	Dendritic nanotubes self-assembled from stiff polysaccharides as drug and probe carriers. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 2616-2624	7.3	25



381	Facile construction of cellulose nanocomposite aerogel containing TiO <sub>2</sub> nanoparticles with high content and small size and their applications. <i>Cellulose</i> , <b>2017</b> , 24, 2229-2240	5.5	29
380	Facile fabrication of superhydrophilic membranes consisted of fibrous tunicate cellulose nanocrystals for highly efficient oil/water separation. <i>Journal of Membrane Science</i> , <b>2017</b> , 525, 1-8	9.6	150
379	Influence of cation on the cellulose dissolution investigated by MD simulation and experiments. <i>Cellulose</i> , <b>2017</b> , 24, 4641-4651	5.5	12
378	High-Strength Films Consisted of Oriented Chitosan Nanofibers for Guiding Cell Growth. <i>Biomacromolecules</i> , <b>2017</b> , 18, 3904-3912	6.9	32
377	Robust and thermoplastic hydrogels with surface micro-patterns for highly oriented growth of osteoblasts. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8446-8450	7.3	6
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374	Extended chain conformation of $\beta$ -glucan and its effect on antitumor activity. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 5623-5631	7.3	27
373	Biocompatible chitin/carbon nanotubes composite hydrogels as neuronal growth substrates. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 830-840	10.3	73
372	Heat-induced conformation transition of the comb-branched $\beta$ -glucan in dimethyl sulfoxide/water mixture. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 1404-1412	10.3	6
371	Bilayer hydrogel actuators with tight interfacial adhesion fully constructed from natural polysaccharides. <i>Soft Matter</i> , <b>2017</b> , 13, 345-354	3.6	105
370	Deformation Drives Alignment of Nanofibers in Framework for Inducing Anisotropic Cellulose Hydrogels with High Toughness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43154-43162	9.5	65
369	Highly Efficient Self-Healable and Dual Responsive Cellulose-Based Hydrogels for Controlled Release and 3D Cell Culture. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703174	15.6	228
368	Recent advances in regenerated cellulose materials. <i>Progress in Polymer Science</i> , <b>2016</b> , 53, 169-206	29.6	564
367	Rapid dissolution of spruce cellulose in H <sub>2</sub> SO <sub>4</sub> aqueous solution at low temperature. <i>Cellulose</i> , <b>2016</b> , 23, 3463-3473	5.5	16
366	Improved Mechanical Properties and Sustained Release Behavior of Cationic Cellulose Nanocrystals Reinforced Cationic Cellulose Injectable Hydrogels. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2839-48	6.9	66
365	Ultra-Stretchable and Force-Sensitive Hydrogels Reinforced with Chitosan Microspheres Embedded in Polymer Networks. <i>Advanced Materials</i> , <b>2016</b> , 28, 8037-8044	24	220
364	High-Strength and High-Toughness Double-Cross-Linked Cellulose Hydrogels: A New Strategy Using Sequential Chemical and Physical Cross-Linking. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6279-6287	15.6	281

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362	Anti-tumor effect of $\beta$ -glucan from <i>Lentinus edodes</i> and the underlying mechanism. <i>Scientific Reports</i> , <b>2016</b> , 6, 28802	4.9	39
361	Super stretchable hydrogel achieved by non-aggregated spherulites with diameters. <i>Nature Communications</i> , <b>2016</b> , 7, 12095	17.4	86
360	High-Flexibility, High-Toughness Double-Cross-Linked Chitin Hydrogels by Sequential Chemical and Physical Cross-Linkings. <i>Advanced Materials</i> , <b>2016</b> , 28, 5844-9	24	180
359	Construction of controllable size silver nanoparticles immobilized on nanofibers of chitin microspheres via green pathway. <i>Nano Research</i> , <b>2016</b> , 9, 2149-2161	10	36
358	Micro-Nanostructured Polyaniline Assembled in Cellulose Matrix via Interfacial Polymerization for Applications in Nerve Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17090-7	9.5	85
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354	Synthesis of carboxymethyl chitin in aqueous solution and its thermo- and pH-sensitive behaviors. <i>Carbohydrate Polymers</i> , <b>2016</b> , 137, 600-607	10.3	58
353	Changes in shape and size of the stiff branched $\beta$ -glucan in dimethylsulfoxide/water solutions. <i>Carbohydrate Polymers</i> , <b>2016</b> , 138, 86-93	10.3	17
352	Thermosensitive injectable in-situ forming carboxymethyl chitin hydrogel for three-dimensional cell culture. <i>Acta Biomaterialia</i> , <b>2016</b> , 35, 228-37	10.8	85
351	Reinforced Mechanical Properties and Tunable Biodegradability in Nanoporous Cellulose Gels: Poly(L-lactide-co-caprolactone) Nanocomposites. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1506-15	6.9	26
350	Construction of cellulose/nanosilver sponge materials and their antibacterial activities for infected wounds healing. <i>Cellulose</i> , <b>2016</b> , 23, 749-763	5.5	69
349	Construction of Fluorescent Cellulose Biobased Plastics and their Potential Application in Anti-Counterfeiting Banknotes. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 377-382	3.9	10
348	A Hierarchical N/S-Codoped Carbon Anode Fabricated Facilely from Cellulose/Polyaniline Microspheres for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501929	21.8	378
347	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 35587-35592	9.5	59
346	The linear structure of $\beta$ -glucan from baker's yeast and its activation of macrophage-like RAW264.7 cells. <i>Carbohydrate Polymers</i> , <b>2016</b> , 148, 61-8	10.3	33

345	Highly Selective Conversion of Cellobiose and Cellulose to Hexitols by Ru-Based Homogeneous Catalyst under Acidic Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5263-5270	3.9	9
344	Strong and Rapidly Self-Healing Hydrogels: Potential Hemostatic Materials. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2813-2822	10.1	99
343	Fabrication of Hollow Materials by Fast Pyrolysis of Cellulose Composite Fibers with Heterogeneous Structures. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 13504-13508	16.4	15
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341	Light weight, mechanically strong and biocompatible chitin aerogels from different aqueous alkali hydroxide/urea solutions. <i>Science China Chemistry</i> , <b>2016</b> , 59, 1405-1414	7.9	22
340	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 27, 482-491	17.1	229
339	Dissolution of cellulose from different sources in an NaOH/urea aqueous system at low temperature. <i>Cellulose</i> , <b>2015</b> , 22, 339-349	5.5	72
338	Highly biocompatible nanofibrous microspheres self-assembled from chitin in NaOH/urea aqueous solution as cell carriers. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5152-6	16.4	140
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335	Intermolecular interaction and the extended wormlike chain conformation of chitin in NaOH/urea aqueous solution. <i>Biomacromolecules</i> , <b>2015</b> , 16, 1410-7	6.9	139
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331	Effectively promoting wound healing with cellulose/gelatin sponges constructed directly from a cellulose solution. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 7518-7528	7.3	55
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329	Construction of selenium nanoparticles/β-glucan composites for enhancement of the antitumor activity. <i>Carbohydrate Polymers</i> , <b>2015</b> , 117, 434-442	10.3	89
328	Preparation and properties of cellulose/silver nanocomposite fibers. <i>Carbohydrate Polymers</i> , <b>2015</b> , 115, 269-75	10.3	58

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324	Hydrophobic modification of chitin whisker and its potential application in structuring oil. <i>Langmuir</i> , <b>2015</b> , 31, 1641-8	4	44
323	Moisture and solvent responsive cellulose/SiO <sub>2</sub> nanocomposite materials. <i>Cellulose</i> , <b>2015</b> , 22, 553-563	5.5	19
322	Construction of cellulose based ZnO nanocomposite films with antibacterial properties through one-step coagulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2597-606	9.5	173
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316	Hydrophobic modification on surface of chitin sponges for highly effective separation of oil. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19933-42	9.5	175
315	Advances in Cellulose Hydrophobicity Improvement. <i>ACS Symposium Series</i> , <b>2014</b> , 241-274	0.4	3
314	Constructing flexible cellulose/graphene nanocomposite film through in situ coating with highly single-side conductive performance. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 524-529	7.1	23
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239	Properties of cellulose films prepared from NaOH/urea/zincate aqueous solution at low temperature. <i>Cellulose</i> , <b>2011</b> , 18, 681-688	5.5	55
238	Construction of inorganic nanoparticles by micro-nano-porous structure of cellulose matrix. <i>Cellulose</i> , <b>2011</b> , 18, 945-956	5.5	43



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236	Self-assembled micelles based on hydrophobically modified quaternized cellulose for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 83, 313-20	6	86
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