

Chunyu Chang

List of Publications by Citations

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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.

68

papers

5,316

citations

36

h-index

71

g-index

71

ext. papers

6,205

ext. citations

8.3

avg, IF

6.16

L-index

#	Paper	IF	Citations
68	Cellulose-based hydrogels: Present status and application prospects. <i>Carbohydrate Polymers</i> , 2011 , 84, 40-53	10.3	690
67	Superabsorbent hydrogels based on cellulose for smart swelling and controllable delivery. <i>European Polymer Journal</i> , 2010 , 46, 92-100	5.2	556
66	Highly Efficient Self-Healable and Dual Responsive Cellulose-Based Hydrogels for Controlled Release and 3D Cell Culture. <i>Advanced Functional Materials</i> , 2017 , 27, 1703174	15.6	228
65	Superabsorbent Cellulose/Clay Nanocomposite Hydrogels for Highly Efficient Removal of Dye in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 7217-7224	8.3	208
64	Swelling Behaviors of pH- and Salt-Responsive Cellulose-Based Hydrogels. <i>Macromolecules</i> , 2011 , 44, 1642-1648	5.5	196
63	Properties and applications of biodegradable transparent and photoluminescent cellulose films prepared via a green process. <i>Green Chemistry</i> , 2009 , 11, 177-184	10	193
62	Structure and properties of hydrogels prepared from cellulose in NaOH/urea aqueous solutions. <i>Carbohydrate Polymers</i> , 2010 , 82, 122-127	10.3	191
61	Effects of temperature and molecular weight on dissolution of cellulose in NaOH/urea aqueous solution. <i>Cellulose</i> , 2008 , 15, 779-787	5.5	172
60	Novel hydrogels prepared via direct dissolution of chitin at low temperature: structure and biocompatibility. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3865		169
59	Effects of Crosslinking Methods on Structure and Properties of Cellulose/PVA Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1266-1273	2.6	163
58	Facile fabrication of superhydrophilic membranes consisted of fibrous tunicate cellulose nanocrystals for highly efficient oil/water separation. <i>Journal of Membrane Science</i> , 2017 , 525, 1-8	9.6	150
57	Hydrogen-bond-induced inclusion complex in aqueous cellulose/LiOH/urea solution at low temperature. <i>ChemPhysChem</i> , 2007 , 8, 1572-9	3.2	147
56	Strongly fluorescent hydrogels with quantum dots embedded in cellulose matrices. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7771		140
55	Hydrogels prepared from unsubstituted cellulose in NaOH/urea aqueous solution. <i>Macromolecular Bioscience</i> , 2007 , 7, 804-9	5.5	140
54	Fabrication and characterization of novel macroporous cellulose/alginate hydrogels. <i>Polymer</i> , 2009 , 50, 5467-5473	3.9	132
53	Biocompatible cellulose-based superabsorbent hydrogels with antimicrobial activity. <i>Carbohydrate Polymers</i> , 2016 , 137, 59-64	10.3	129
52	High strength films with gas-barrier fabricated from chitin solution dissolved at low temperature. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1867-1874	13	125

51	Fabrication and properties of chitin/hydroxyapatite hybrid hydrogels as scaffold nano-materials. <i>Carbohydrate Polymers</i> , 2013 , 91, 7-13	10.3	101
50	Ultra-high Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. <i>ACS Nano</i> , 2019 , 13, 4843-4853	16.7	97
49	Robust Anisotropic Cellulose Hydrogels Fabricated via Strong Self-aggregation Forces for Cardiomyocytes Unidirectional Growth. <i>Chemistry of Materials</i> , 2018 , 30, 5175-5183	9.6	94
48	Dual Physically Cross-Linked Nanocomposite Hydrogels Reinforced by Tunicate Cellulose Nanocrystals with High Toughness and Good Self-Recoverability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24230-24237	9.5	90
47	Efficient adsorption of Hg ²⁺ ions on chitin/cellulose composite membranes prepared via environmentally friendly pathway. <i>Chemical Engineering Journal</i> , 2011 , 173, 689-697	14.7	88
46	Construction of cellulose/nanosilver sponge materials and their antibacterial activities for infected wounds healing. <i>Cellulose</i> , 2016 , 23, 749-763	5.5	69
45	Deformation Drives Alignment of Nanofibers in Framework for Inducing Anisotropic Cellulose Hydrogels with High Toughness. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43154-43162	9.5	65
44	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8040-8047	8.3	64
43	UV-induced self-cleanable TiO ₂ /nanocellulose membrane for selective separation of oil/water emulsion. <i>Carbohydrate Polymers</i> , 2018 , 201, 464-470	10.3	64
42	Primarily Industrialized Trial of Novel Fibers Spun from Cellulose Dope in NaOH/Urea Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11380-11384	3.9	57
41	Chitin/clay microspheres with hierarchical architecture for highly efficient removal of organic dyes. <i>Carbohydrate Polymers</i> , 2018 , 188, 143-150	10.3	56
40	High-Strength and Tough Cellulose Hydrogels Chemically Dual Cross-Linked by Using Low- and High-Molecular-Weight Cross-Linkers. <i>Biomacromolecules</i> , 2019 , 20, 1989-1995	6.9	55
39	Robust Tunicate Cellulose Nanocrystal/Palygorskite Nanorod Membranes for Multifunctional Oil/Water Emulsion Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10833-10840	8.3	49
38	Tunicate cellulose nanocrystals modified commercial filter paper for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2019 , 591, 117362	9.6	48
37	Recent developments and prospective food-related applications of cellulose nanocrystals: a review. <i>Cellulose</i> , 2020 , 27, 2991-3011	5.5	48
36	Structure and properties of hydroxyapatite/cellulose nanocomposite films. <i>Carbohydrate Polymers</i> , 2012 , 87, 2512-2518	10.3	47
35	Controlled Arrangement of Nanocellulose in Polymeric Matrix: From Reinforcement to Functionality. <i>ACS Nano</i> , 2020 ,	16.7	46
34	Tunicate cellulose nanocrystals reinforced nanocomposite hydrogels comprised by hybrid cross-linked networks. <i>Carbohydrate Polymers</i> , 2017 , 169, 139-148	10.3	43

33	Facile construction of carbon dots via acid catalytic hydrothermal method and their application for target imaging of cancer cells. <i>Nano Research</i> , 2016 , 9, 214-223	10	42
32	Structure and properties of cellulose/poly(N-isopropylacrylamide) hydrogels prepared by IPN strategy. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 1329-1334	3.2	35
31	Effects of Freezing/Thawing Cycles and Cellulose Nanowhiskers on Structure and Properties of Biocompatible Starch/PVA Sponges. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 137-145	3.9	34
30	Ultrahigh strength nanocomposite hydrogels designed by locking oriented tunicate cellulose nanocrystals in polymeric networks. <i>Composites Part B: Engineering</i> , 2020 , 197, 108118	10	33
29	Additive Printed All-Cellulose Membranes with Hierarchical Structure for Highly Efficient Separation of Oil/Water Nanoemulsions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44375-44382	9.5	28
28	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. <i>Carbohydrate Polymers</i> , 2020 , 237, 116114	10.3	22
27	Bioinspired Shape Memory Hydrogel Artificial Muscles Driven by Solvents. <i>ACS Nano</i> , 2021 ,	16.7	20
26	Phase transition identification of cellulose nanocrystal suspensions derived from various raw materials. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45702	2.9	18
25	A simple strategy to design 3-layered Au-TiO dual nanoparticles immobilized cellulose membranes with enhanced photocatalytic activity. <i>Carbohydrate Polymers</i> , 2020 , 231, 115694	10.3	18
24	Construction of FeOOH@tunicate cellulose nanocomposite hydrogels and their highly efficient photocatalytic properties. <i>Carbohydrate Polymers</i> , 2020 , 229, 115470	10.3	17
23	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , 2021 , 256, 117574	10.3	16
22	Fluorescent probe with aggregation-induced emission characteristics for targeted labelling and imaging of cancer cells. <i>RSC Advances</i> , 2017 , 7, 11282-11285	3.7	14
21	X-ray shielding structural and properties design for the porous transparent BaSO/cellulose nanocomposite membranes. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 793-800	7.9	14
20	Direct current electric field induced gradient hydrogel actuators with rapid thermo-responsive performance as soft manipulators. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2756-2763	7.1	13
19	Tunicate cellulose nanocrystal reinforced polyacrylamide hydrogels with tunable mechanical performance. <i>Cellulose</i> , 2018 , 25, 6561-6570	5.5	13
18	Structure and properties of films fabricated from chitin solution by coagulating with heating. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	11
17	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> , 2020 , 8, 11022-11031	7.1	9
16	Self-supported nanoporous lysozyme/nanocellulose membranes for multifunctional wastewater purification. <i>Journal of Membrane Science</i> , 2021 , 635, 119537	9.6	9

15	Synthesis of O-(2,3-dihydroxypropyl) cellulose in NaOH/urea aqueous solution: As a precursor for introducing necklace-like structure. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 3590-3597	2.5	6
14	Shear-aligned tunicate-cellulose-nanocrystal-reinforced hydrogels with mechano-thermo-chromic properties. <i>Journal of Materials Chemistry C</i> ,	7.1	6
13	High performance films of cellulose butyral derivative having a necklace-like annular structure in the side chains. <i>Polymer</i> , 2014 , 55, 3944-3950	3.9	5
12	Antibacterial nanocellulose membranes coated with silver nanoparticles for oil/water emulsions separation.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118929	10.3	5
11	Additive printing of recyclable anti-counterfeiting patterns with sol-gel cellulose nanocrystal inks. <i>Nanoscale</i> , 2021 , 13, 11808-11816	7.7	5
10	Progress in tunicate cellulose based advanced functional materials. <i>Scientia Sinica Chimica</i> , 2016 , 46, 438-451	1.6	3
9	Magnetic field assisted fabrication of asymmetric hydrogels for complex shape deformable actuators. <i>Journal of Materials Chemistry C</i> ,	7.1	2
8	Bioinspired gradient hydrogel actuators with rewritable patterns and programmable shape deformation. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10295-10302	7.1	2
7	The digital printing of chromatic pattern with a single cellulose nanocrystal ink. <i>Chemical Engineering Journal</i> , 2022 , 439, 135670	14.7	2
6	Surface engineering of cellulose film with myristic acid for high strength, self-cleaning and biodegradable packaging materials. <i>Carbohydrate Polymers</i> , 2021 , 269, 118315	10.3	1
5	Coagulation/anticoagulation-regulable and tough extracellular matrix hydrogels. <i>Composites Part B: Engineering</i> , 2022 , 109938	10	1
4	Self-healable hydrophobic films fabricated by incorporating natural wax into cellulose matrix. <i>Chemical Engineering Journal</i> , 2022 , 446, 136791	14.7	1
3	Structure and Properties of Cellulose Nanocrystals 2019 , 21-52		0
2	Top-down fabrication of biodegradable multilayer tunicate cellulose films with controlled mechanical properties. <i>Cellulose</i> , 2021 , 28, 10415	5.5	0
1	Tough all-polysaccharide hydrogels with uniaxially/planarly oriented structure.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119376	10.3	0