Chunyu Chang

List of Publications by Year in Descending Order

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	Antibacterial nanocellulose membranes coated with silver nanoparticles for oil/water emulsions separation.. *Carbohydrate Polymers*, **2022**, 278, 118929	10.3	5
67	Tough all-polysaccharide hydrogels with uniaxially/planarly oriented structure.. *Carbohydrate Polymers*, **2022**, 288, 119376	10.3	0
66	The digital printing of chromatic pattern with a single cellulose nanocrystal ink. *Chemical Engineering Journal*, **2022**, 439, 135670	14.7	2
65	Coagulation/anticoagulation-regulable and tough extracellular matrix hydrogels. *Composites Part B: Engineering*, **2022**, 109938	10	1
64	Self-healable hydrophobic films fabricated by incorporating natural wax into cellulose matrix. *Chemical Engineering Journal*, **2022**, 446, 136791	14.7	1
63	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. *Carbohydrate Polymers*, **2021**, 256, 117574	10.3	16
62	Additive printing of recyclable anti-counterfeiting patterns with sol-gel cellulose nanocrystal inks. *Nanoscale*, **2021**, 13, 11808-11816	7.7	5
61	Bioinspired Shape Memory Hydrogel Artificial Muscles Driven by Solvents. *ACS Nano*, **2021**,	16.7	20
60	Top-down fabrication of biodegradable multilayer tunicate cellulose films with controlled mechanical properties. *Cellulose*, **2021**, 28, 10415	5.5	0
59	Self-supported nanoporous lysozyme/nanocellulose membranes for multifunctional wastewater purification. *Journal of Membrane Science*, **2021**, 635, 119537	9.6	9
58	Surface engineering of cellulose film with myristic acid for high strength, self-cleaning and biodegradable packaging materials. *Carbohydrate Polymers*, **2021**, 269, 118315	10.3	1
57	Bioinspired gradient hydrogel actuators with rewritable patterns and programmable shape deformation. *Journal of Materials Chemistry C*, **2021**, 9, 10295-10302	7.1	2
56	Controlled Arrangement of Nanocellulose in Polymeric Matrix: From Reinforcement to Functionality. *ACS Nano*, **2020**,	16.7	46
55	The conversion of nanocellulose into solvent-free nanoscale liquid crystals by attaching long side-arms for multi-responsive optical materials. *Journal of Materials Chemistry C*, **2020**, 8, 11022-11031	7.1	9
54	Ultrahigh strength nanocomposite hydrogels designed by locking oriented tunicate cellulose nanocrystals in polymeric networks. *Composites Part B: Engineering*, **2020**, 197, 108118	10	33
53	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. *Carbohydrate Polymers*, **2020**, 237, 116114	10.3	22
52	Recent developments and prospective food-related applications of cellulose nanocrystals: a review. *Cellulose*, **2020**, 27, 2991-3011	5.5	48

51	Direct current electric field induced gradient hydrogel actuators with rapid thermo-responsive performance as soft manipulators. *Journal of Materials Chemistry C*, **2020**, 8, 2756-2763	7.1	13
50	A simple strategy to design 3-layered Au-TiO dual nanoparticles immobilized cellulose membranes with enhanced photocatalytic activity. *Carbohydrate Polymers*, **2020**, 231, 115694	10.3	18
49	Construction of FeOOH@tunicate cellulose nanocomposite hydrogels and their highly efficient photocatalytic properties. *Carbohydrate Polymers*, **2020**, 229, 115470	10.3	17
48	Tunicate cellulose nanocrystals modified commercial filter paper for efficient oil/water separation. *Journal of Membrane Science*, **2019**, 591, 117362	9.6	48
47	High-Strength and Tough Cellulose Hydrogels Chemically Dual Cross-Linked by Using Low- and High-Molecular-Weight Cross-Linkers. *Biomacromolecules*, **2019**, 20, 1989-1995	6.9	55
46	Structure and Properties of Cellulose Nanocrystals **2019**, 21-52		0
45	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. *ACS Nano*, **2019**, 13, 4843-4853	16.7	97
44	X-ray shielding structural and properties design for the porous transparent BaSO/cellulose nanocomposite membranes. *International Journal of Biological Macromolecules*, **2019**, 139, 793-800	7.9	14
43	Additive Printed All-Cellulose Membranes with Hierarchical Structure for Highly Efficient Separation of Oil/Water Nanoemulsions. *ACS Applied Materials & Interfaces*, **2019**, 11, 44375-44382	9.5	28
42	Chitin/clay microspheres with hierarchical architecture for highly efficient removal of organic dyes. *Carbohydrate Polymers*, **2018**, 188, 143-150	10.3	56
41	Construction of Transparent Cellulose-Based Nanocomposite Papers and Potential Application in Flexible Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8040-8047	8.3	64
40	Phase transition identification of cellulose nanocrystal suspensions derived from various raw materials. *Journal of Applied Polymer Science*, **2018**, 135, 45702	2.9	18
39	Robust Anisotropic Cellulose Hydrogels Fabricated via Strong Self-aggregation Forces for Cardiomyocytes Unidirectional Growth. *Chemistry of Materials*, **2018**, 30, 5175-5183	9.6	94
38	UV-induced self-cleanable TiO/nanocellulose membrane for selective separation of oil/water emulsion. *Carbohydrate Polymers*, **2018**, 201, 464-470	10.3	64
37	Robust Tunicate Cellulose Nanocrystal/Palygorskite Nanorod Membranes for Multifunctional Oil/Water Emulsion Separation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 10833-10840	8.3	49
36	Tunicate cellulose nanocrystal reinforced polyacrylamide hydrogels with tunable mechanical performance. *Cellulose*, **2018**, 25, 6561-6570	5.5	13
35	Fluorescent probe with aggregation-induced emission characteristics for targeted labelling and imaging of cancer cells. *RSC Advances*, **2017**, 7, 11282-11285	3.7	14
34	Tunicate cellulose nanocrystals reinforced nanocomposite hydrogels comprised by hybrid cross-linked networks. *Carbohydrate Polymers*, **2017**, 169, 139-148	10.3	43

33	Facile fabrication of superhydrophilic membranes consisted of fibrous tunicate cellulose nanocrystals for highly efficient oil/water separation. *Journal of Membrane Science*, **2017**, 525, 1-8	9.6	150
32	Dual Physically Cross-Linked Nanocomposite Hydrogels Reinforced by Tunicate Cellulose Nanocrystals with High Toughness and Good Self-Recoverability. *ACS Applied Materials & Interfaces*, **2017**, 9, 24230-24237	9.5	90
31	Deformation Drives Alignment of Nanofibers in Framework for Inducing Anisotropic Cellulose Hydrogels with High Toughness. *ACS Applied Materials & Interfaces*, **2017**, 9, 43154-43162	9.5	65
30	Highly Efficient Self-Healable and Dual Responsive Cellulose-Based Hydrogels for Controlled Release and 3D Cell Culture. *Advanced Functional Materials*, **2017**, 27, 1703174	15.6	228
29	Facile construction of carbon dots via acid catalytic hydrothermal method and their application for target imaging of cancer cells. *Nano Research*, **2016**, 9, 214-223	10	42
28	Construction of cellulose/nanosilver sponge materials and their antibacterial activities for infected wounds healing. *Cellulose*, **2016**, 23, 749-763	5.5	69
27	Biocompatible cellulose-based superabsorbent hydrogels with antimicrobial activity. *Carbohydrate Polymers*, **2016**, 137, 59-64	10.3	129
26	Progress in tunicate cellulose based advanced functional materials. *Scientia Sinica Chimica*, **2016**, 46, 438-451	1.6	3
25	Superabsorbent Cellulose□Clay Nanocomposite Hydrogels for Highly Efficient Removal of Dye in Water. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 7217-7224	8.3	208
24	High performance films of cellulose butyral derivative having a necklace-like annular structure in the side chains. *Polymer*, **2014**, 55, 3944-3950	3.9	5
23	Structure and properties of films fabricated from chitin solution by coagulating with heating. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	11
22	High strength films with gas-barrier fabricated from chitin solution dissolved at low temperature. *Journal of Materials Chemistry A*, **2013**, 1, 1867-1874	13	125
21	Fabrication and properties of chitin/hydroxyapatite hybrid hydrogels as scaffold nano-materials. *Carbohydrate Polymers*, **2013**, 91, 7-13	10.3	101
20	Synthesis of O-(2,3-dihydroxypropyl) cellulose in NaOH/urea aqueous solution: As a precursor for introducing □necklace-like□structure. *Journal of Polymer Science Part A*, **2013**, 51, 3590-3597	2.5	6
19	Structure and properties of hydroxyapatite/cellulose nanocomposite films. *Carbohydrate Polymers*, **2012**, 87, 2512-2518	10.3	47
18	Novel hydrogels prepared via direct dissolution of chitin at low temperature: structure and biocompatibility. *Journal of Materials Chemistry*, **2011**, 21, 3865		169
17	Swelling Behaviors of pH- and Salt-Responsive Cellulose-Based Hydrogels. *Macromolecules*, **2011**, 44, 1642-1648	5.5	196
16	Efficient adsorption of Hg2+ ions on chitin/cellulose composite membranes prepared via environmentally friendly pathway. *Chemical Engineering Journal*, **2011**, 173, 689-697	14.7	88

15	Structure and properties of cellulose/poly(N-isopropylacrylamide) hydrogels prepared by IPN strategy. *Polymers for Advanced Technologies*, **2011**, 22, 1329-1334	3.2	35
14	Cellulose-based hydrogels: Present status and application prospects. *Carbohydrate Polymers*, **2011**, 84, 40-53	10.3	690
13	Primarily Industrialized Trial of Novel Fibers Spun from Cellulose Dope in NaOH/Urea Aqueous Solution. *Industrial & Engineering Chemistry Research*, **2010**, 49, 11380-11384	3.9	57
12	Structure and properties of hydrogels prepared from cellulose in NaOH/urea aqueous solutions. *Carbohydrate Polymers*, **2010**, 82, 122-127	10.3	191
11	Effects of Freezing/Thawing Cycles and Cellulose Nanowhiskers on Structure and Properties of Biocompatible Starch/PVA Sponges. *Macromolecular Materials and Engineering*, **2010**, 295, 137-145	3.9	34
10	Superabsorbent hydrogels based on cellulose for smart swelling and controllable delivery. *European Polymer Journal*, **2010**, 46, 92-100	5.2	556
9	Fabrication and characterization of novel macroporous cellulose□lginate hydrogels. *Polymer*, **2009**, 50, 5467-5473	3.9	132
8	Properties and applications of biodegradable transparent and photoluminescent cellulose films prepared via a green process. *Green Chemistry*, **2009**, 11, 177-184	10	193
7	Strongly fluorescent hydrogels with quantum dots embedded in cellulose matrices. *Journal of Materials Chemistry*, **2009**, 19, 7771		140
6	Effects of temperature and molecular weight on dissolution of cellulose in NaOH/urea aqueous solution. *Cellulose*, **2008**, 15, 779-787	5.5	172
5	Effects of Crosslinking Methods on Structure and Properties of Cellulose/PVA Hydrogels. *Macromolecular Chemistry and Physics*, **2008**, 209, 1266-1273	2.6	163
4	Hydrogen-bond-induced inclusion complex in aqueous cellulose/LiOH/urea solution at low temperature. *ChemPhysChem*, **2007**, 8, 1572-9	3.2	147
3	Hydrogels prepared from unsubstituted cellulose in NaOH/urea aqueous solution. *Macromolecular Bioscience*, **2007**, 7, 804-9	5.5	140
2	Magnetic field assisted fabrication of asymmetric hydrogels for complex shape deformable actuators. *Journal of Materials Chemistry C*,	7.1	2
1	Shear-aligned tunicate-cellulose-nanocrystal-reinforced hydrogels with mechano-thermo-chromic properties. *Journal of Materials Chemistry C*,	7.1	6