

Chuchu Chen

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.

66
papers

1,492
citations

25
h-index

35
g-index

71
ext. papers

1,985
ext. citations

6.5
avg, IF

5.39
L-index

#	Paper	IF	Citations
66	Mildly processed chitin used in one-component drinking straws and single use materials: Strength, biodegradability and recyclability. <i>Chemical Engineering Journal</i> , 2022 , 442, 136173	14.7	3
65	Toward Strong and Tough Wood-Based Hydrogels for Sensors. <i>Biomacromolecules</i> , 2021 ,	6.9	3
64	Surface and Interface Engineering for Nanocellulosic Advanced Materials. <i>Advanced Materials</i> , 2021 , 33, e2002264	24	87
63	Preparation and characterization of activated carbon/ultra-high molecular weight polyethylene composites. <i>Polymer Composites</i> , 2021 , 42, 2728	3	2
62	High mechanical properties of micro fibrillated cellulose/HDPE composites prepared with two different methods. <i>Cellulose</i> , 2021 , 28, 5449	5.5	2
61	Intermolecular self-assembly of dopamine-conjugated carboxymethylcellulose and carbon nanotubes toward supertough filaments and multifunctional wearables. <i>Chemical Engineering Journal</i> , 2021 , 416, 128981	14.7	2
60	Cellulose-reinforced bioglass composite as flexible bioactive bandage to enhance bone healing. <i>Ceramics International</i> , 2021 , 47, 416-423	5.1	14
59	Amorphous/crystalline phase control of nanotubular TiO ₂ membranes via pressure-engineered anodizing. <i>Materials and Design</i> , 2021 , 198, 109314	8.1	19
58	Programmed design of selectively-functionalized wood aerogel: Affordable and mildew-resistant solar-driven evaporator. <i>Nano Energy</i> , 2021 , 87, 106146	17.1	19
57	Adsorption characteristics of directional cellulose nanofiber/chitosan/montmorillonite aerogel as adsorbent for wastewater treatment. <i>Separation and Purification Technology</i> , 2021 , 274, 119120	8.3	18
56	Effect of carbonization temperature on mechanical properties and biocompatibility of biochar/ultra-high molecular weight polyethylene composites. <i>Composites Part B: Engineering</i> , 2020 , 196, 108120	10	6
55	A solar and thermal multi-sensing microfiber supercapacitor with intelligent self-conditioned capacitance and body temperature monitoring. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11695-11711	13	11
54	Highly strong and flexible composite hydrogel reinforced by aligned wood cellulose skeleton via alkali treatment for muscle-like sensors. <i>Chemical Engineering Journal</i> , 2020 , 400, 125876	14.7	42
53	CoreShell Structured Cellulose Nanofibers/Graphene@Polypyrrole Microfibers for All-Solid-State Wearable Supercapacitors with Enhanced Electrochemical Performance. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900854	3.9	11
52	A multicomponent interconnected composite paper for triple-mode sensors and flexible micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24620-24634	13	7
51	Surface modification of orthopedic implants by optimized fluorine-substituted hydroxyapatite coating: Enhancing corrosion behavior and cell function. <i>Ceramics International</i> , 2020 , 46, 2139-2146	5.1	20
50	Scalable fabrication of tunable titanium nanotubes via sonoelectrochemical process for biomedical applications. <i>Ultrasonics Sonochemistry</i> , 2020 , 64, 104783	8.9	27

49	Electrically conductive polyacrylamide/carbon nanotube hydrogel: reinforcing effect from cellulose nanofibers. <i>Cellulose</i> , 2019 , 26, 8843-8851	5.5	23
48	A Comparative Study on the Characterization of Nanofibers with Cellulose I, I/II, and II Polymorphs from Wood. <i>Polymers</i> , 2019 , 11,	4.5	8
47	Analysis and Identification of the Mechanism of Damage and Fracture of High-Filled Wood Fiber/Recycled High-Density Polyethylene Composites. <i>Polymers</i> , 2019 , 11,	4.5	7
46	Polypyrrole-decorated, milled carbon fibers-inserted chitin nanofibers/multiwalled carbon nanotubes flexible free-standing film for supercapacitors. <i>Polymer Composites</i> , 2019 , 40, 4311-4320	3	6
45	Acoustic Emission-Based Study to Characterize the Crack Initiation Point of Wood Fiber/HDPE Composites. <i>Polymers</i> , 2019 , 11,	4.5	5
44	Thermal Properties of Wood-Plastic Composites with Different Compositions. <i>Materials</i> , 2019 , 12,	3.5	29
43	Insect Cuticle-Mimetic Hydrogels with High Mechanical Properties Achieved via the Combination of Chitin Nanofiber and Gelatin. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 5571-5578	5.7	30
42	Multifunctional Wet-Spun Filaments through Robust Nanocellulose Networks Wrapping to Single-Walled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42808-42817	9.5	23
41	Interface Reinforcement of Pulp Fiber Based ABS Composite with Hydrogen Bonding Initiated Interlinked Structure via Alkaline Oxidation and -Butyl Grafting on Cellulose. <i>Polymers</i> , 2019 , 11,	4.5	4
40	Bioinspired hydrogels: Quinone crosslinking reaction for chitin nanofibers with enhanced mechanical strength via surface deacetylation. <i>Carbohydrate Polymers</i> , 2019 , 207, 411-417	10.3	34
39	Electrodes based on cellulose nanofibers/carbon nanotubes networks, polyaniline nanowires and carbon cloth for supercapacitors. <i>Materials Research Express</i> , 2019 , 6, 035008	1.7	13
38	Wet-spinning assembly of cellulose nanofibers reinforced graphene/polypyrrole microfibers for high performance fiber-shaped supercapacitors. <i>Electrochimica Acta</i> , 2018 , 269, 11-20	6.7	46
37	Mechanical, electrical, and thermal properties of highly filled bamboo charcoal/ultra-high molecular weight polyethylene composites. <i>Polymer Composites</i> , 2018 , 39, E1858-E1866	3	8
36	Highly conductive nanocomposites based on cellulose nanofiber networks via NaOH treatments. <i>Composites Science and Technology</i> , 2018 , 156, 103-108	8.6	38
35	High strength gelatin-based nanocomposites reinforced by surface-deacetylated chitin nanofiber networks. <i>Carbohydrate Polymers</i> , 2018 , 195, 387-392	10.3	27
34	Assessing air pollution abatement co-benefits of energy efficiency improvement in cement industry: A city level analysis. <i>Journal of Cleaner Production</i> , 2018 , 185, 761-771	10.3	38
33	Highly filled biochar/ultra-high molecular weight polyethylene/linear low density polyethylene composites for high-performance electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2018 , 153, 277-284	10	41
32	Highly transparent chitin nanofiber/gelatin nanocomposite with enhanced mechanical properties. <i>Cellulose</i> , 2018 , 25, 5063-5070	5.5	10

31	Formation of high strength double-network gels from cellulose nanofiber/polyacrylamide via NaOH gelation treatment. <i>Cellulose</i> , 2018 , 25, 5089-5097	5.5	21
30	Effect of delignification technique on the ease of fibrillation of cellulose II nanofibers from wood. <i>Cellulose</i> , 2018 , 25, 7003-7015	5.5	10
29	Cellulose Nanofiber/Carbon Nanotube Conductive Nano-Network as a Reinforcement Template for Polydimethylsiloxane Nanocomposite. <i>Polymers</i> , 2018 , 10,	4.5	30
28	Homogeneous dispersion of chitin nanofibers in polylactic acid with different pretreatment methods. <i>Cellulose</i> , 2017 , 24, 1705-1715	5.5	15
27	Synthesis of chitin nanofibers, MWCNTs and MnO ₂ nanoflakes 3D porous network flexible gel-film for high supercapacitive performance electrodes. <i>Applied Surface Science</i> , 2017 , 398, 33-42	6.7	8
26	Reinforcement of cellulose nanofibers in polyacrylamide gels. <i>Cellulose</i> , 2017 , 24, 5487-5493	5.5	24
25	Comparative Study on Properties of Polylactic Acid Nanocomposites with Cellulose and Chitin Nanofibers Extracted from Different Raw Materials. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-11	3.2	13
24	Excellent rheological performance and impact toughness of cellulose nanofibers/PLA/ionomer composite. <i>RSC Advances</i> , 2017 , 7, 28889-28897	3.7	18
23	Size effect of charcoal particles on the properties of bamboo charcoal/ultra-high molecular weight polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45530	2.9	7
22	Development of electrically conductive nano bamboo charcoal/ultra-high molecular weight polyethylene composites with a segregated network. <i>Composites Science and Technology</i> , 2016 , 132, 31-37	8.6	42
21	Preparation and properties of wood plastic composite reinforced by ultralong cellulose nanofibers. <i>Polymer Composites</i> , 2016 , 37, 1206-1215	3	12
20	Fabrication of a flexible free-standing film electrode composed of polypyrrole coated cellulose nanofibers/multi-walled carbon nanotubes composite for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 86744-86751	3.7	23
19	Critical evaluation and thermodynamic optimization of the U-Pb and U-Sb binary systems. <i>Journal of Nuclear Materials</i> , 2016 , 480, 216-222	3.3	2
18	Three kinds of charcoal powder reinforced ultra-high molecular weight polyethylene composites with excellent mechanical and electrical properties. <i>Materials and Design</i> , 2015 , 85, 54-59	8.1	39
17	Flexible and foldable supercapacitor electrodes from the porous 3D network of cellulose nanofibers, carbon nanotubes and polyaniline. <i>Materials Letters</i> , 2015 , 155, 78-81	3.3	58
16	Flexible highly specific capacitance aerogel electrodes based on cellulose nanofibers, carbon nanotubes and polyaniline. <i>Electrochimica Acta</i> , 2015 , 182, 264-271	6.7	80
15	A three-dimensionally chitin nanofiber/carbon nanotube hydrogel network for foldable conductive paper. <i>Carbohydrate Polymers</i> , 2015 , 134, 309-13	10.3	29
14	Isolation and properties of cellulose nanofibrils from coconut palm petioles by different mechanical process. <i>PLoS ONE</i> , 2015 , 10, e0122123	3.7	34

13	Preparation of high-strength chitin nanofiber-based hydrogels under mild conditions. <i>Cellulose</i> , 2015 , 22, 2543-2550	5-5	39
12	Preparation of tough cellulose II nanofibers with high thermal stability from wood. <i>Cellulose</i> , 2014 , 21, 1505-1515	5-5	55
11	Properties of polymethyl methacrylate-based nanocomposites: Reinforced with ultra-long chitin nanofiber extracted from crab shells. <i>Materials & Design</i> , 2014 , 56, 1049-1056		45
10	High-performance nanocomposite films: reinforced with chitosan nanofiber extracted from prawn shells. <i>Journal of Materials Science</i> , 2014 , 49, 1215-1221	4-3	27
9	Electrically conductive charcoal powder/ultrahigh molecular weight polyethylene composites. <i>Materials Letters</i> , 2014 , 137, 409-412	3-3	15
8	Dissolution and gelation of chitin nanofibers using a simple NaOH treatment at low temperatures. <i>Cellulose</i> , 2014 , 21, 3339-3346	5-5	24
7	Cotton cellulose nanofiber-reinforced high density polyethylene composites prepared with two different pretreatment methods. <i>Industrial Crops and Products</i> , 2014 , 59, 318-328	5-9	56
6	Highly filled bamboo charcoal powder reinforced ultra-high molecular weight polyethylene. <i>Materials Letters</i> , 2014 , 122, 121-124	3-3	25
5	Measurement of the elastic parameters of densified balsam fir wood in the radial-tangential plane using a digital image correlation (DIC) method. <i>Journal of Materials Science</i> , 2013 , 48, 7728-7735	4-3	10
4	Tensile strength of windmill palm (<i>Trachycarpus fortunei</i>) fiber bundles and its structural implications. <i>Journal of Materials Science</i> , 2012 , 47, 949-959	4-3	31
3	Bacterial Cellulose: The Nano-Scalar Cellulose Morphology for the Material of Transparent Regenerated Membrane. <i>Advanced Materials Research</i> , 2012 , 586, 30-38	0-5	1
2	Exploratory study on fatigue behaviour of laterally loaded, nailed timber joints, based on a dissipated energy criterion. <i>Holzforschung</i> , 2012 , 66, 863-869	2	7
1	OPTICALLY TRANSPARENT BIOCOMPOSITES: POLYMETHYLMETHACRYLATE REINFORCED WITH HIGH-PERFORMANCE CHITIN NANOFIBERS. <i>BioResources</i> , 2012 , 7,	1-3	4