Chuchu Chen

List of Publications by Citations

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	Surface and Interface Engineering for Nanocellulosic Advanced Materials. *Advanced Materials*, **2021**, 33, e2002264	24	87
65	Flexible highly specific capacitance aerogel electrodes based on cellulose nanofibers, carbon nanotubes and polyaniline. *Electrochimica Acta*, **2015**, 182, 264-271	6.7	80
64	Flexible and foldable supercapacitor electrodes from the porous 3D network of cellulose nanofibers, carbon nanotubes and polyaniline. *Materials Letters*, **2015**, 155, 78-81	3.3	58
63	Cotton cellulose nanofiber-reinforced high density polyethylene composites prepared with two different pretreatment methods. *Industrial Crops and Products*, **2014**, 59, 318-328	5.9	56
62	Preparation of tough cellulose II nanofibers with high thermal stability from wood. *Cellulose*, **2014**, 21, 1505-1515	5.5	55
61	Wet-spinning assembly of cellulose nanofibers reinforced graphene/polypyrrole microfibers for high performance fiber-shaped supercapacitors. *Electrochimica Acta*, **2018**, 269, 11-20	6.7	46
60	Properties of polymethyl methacrylate-based nanocomposites: Reinforced with ultra-long chitin nanofiber extracted from crab shells. *Materials & Design*, **2014**, 56, 1049-1056		45
59	Highly strong and flexible composite hydrogel reinforced by aligned wood cellulose skeleton via alkali treatment for muscle-like sensors. *Chemical Engineering Journal*, **2020**, 400, 125876	14.7	42
58	Development of electrically conductive nano bamboo charcoal/ultra-high molecular weight polyethylene composites with a segregated network. *Composites Science and Technology*, **2016**, 132, 31-37	8.6	42
57	Highly filled biochar/ultra-high molecular weight polyethylene/linear low density polyethylene composites for high-performance electromagnetic interference shielding. *Composites Part B: Engineering*, **2018**, 153, 277-284	10	41
56	Three kinds of charcoal powder reinforced ultra-high molecular weight polyethylene composites with excellent mechanical and electrical properties. *Materials and Design*, **2015**, 85, 54-59	8.1	39
55	Preparation of high-strength chitin nanofiber-based hydrogels under mild conditions. *Cellulose*, **2015**, 22, 2543-2550	5.5	39
54	Highly conductive nanocomposites based on cellulose nanofiber networks via NaOH treatments. *Composites Science and Technology*, **2018**, 156, 103-108	8.6	38
53	Assessing air pollution abatement co-benefits of energy efficiency improvement in cement industry: A city level analysis. *Journal of Cleaner Production*, **2018**, 185, 761-771	10.3	38
52	Isolation and properties of cellulose nanofibrils from coconut palm petioles by different mechanical process. *PLoS ONE*, **2015**, 10, e0122123	3.7	34
51	Bioinspired hydrogels: Quinone crosslinking reaction for chitin nanofibers with enhanced mechanical strength via surface deacetylation. *Carbohydrate Polymers*, **2019**, 207, 411-417	10.3	34
50	Tensile strength of windmill palm (Trachycarpus fortunei) fiber bundles and its structural implications. *Journal of Materials Science*, **2012**, 47, 949-959	4.3	31

49	Insect Cuticle-Mimetic Hydrogels with High Mechanical Properties Achieved via the Combination of Chitin Nanofiber and Gelatin. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 5571-5578	5.7	30
48	Cellulose Nanofiber/Carbon Nanotube Conductive Nano-Network as a Reinforcement Template for Polydimethylsiloxane Nanocomposite. *Polymers*, **2018**, 10,	4.5	30
47	Thermal Properties of Wood-Plastic Composites with Different Compositions. *Materials*, **2019**, 12,	3.5	29
46	A three-dimensionally chitin nanofiber/carbon nanotube hydrogel network for foldable conductive paper. *Carbohydrate Polymers*, **2015**, 134, 309-13	10.3	29
45	High strength gelatin-based nanocomposites reinforced by surface-deacetylated chitin nanofiber networks. *Carbohydrate Polymers*, **2018**, 195, 387-392	10.3	27
44	High-performance nanocomposite films: reinforced with chitosan nanofiber extracted from prawn shells. *Journal of Materials Science*, **2014**, 49, 1215-1221	4.3	27
43	Scalable fabrication of tunable titanium nanotubes via sonoelectrochemical process for biomedical applications. *Ultrasonics Sonochemistry*, **2020**, 64, 104783	8.9	27
42	Highly filled bamboo charcoal powder reinforced ultra-high molecular weight polyethylene. *Materials Letters*, **2014**, 122, 121-124	3.3	25
41	Reinforcement of cellulose nanofibers in polyacrylamide gels. *Cellulose*, **2017**, 24, 5487-5493	5.5	24
40	Dissolution and gelation of □chitin nanofibers using a simple NaOH treatment at low temperatures. *Cellulose*, **2014**, 21, 3339-3346	5.5	24
39	Electrically conductive polyacrylamide/carbon nanotube hydrogel: reinforcing effect from cellulose nanofibers. *Cellulose*, **2019**, 26, 8843-8851	5.5	23
38	Multifunctional Wet-Spun Filaments through Robust Nanocellulose Networks Wrapping to Single-Walled Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2019**, 11, 42808-42817	9.5	23
37	Fabrication of a flexible free-standing film electrode composed of polypyrrole coated cellulose nanofibers/multi-walled carbon nanotubes composite for supercapacitors. *RSC Advances*, **2016**, 6, 86744-86751	3.7	23
36	Formation of high strength double-network gels from cellulose nanofiber/polyacrylamide via NaOH gelation treatment. *Cellulose*, **2018**, 25, 5089-5097	5.5	21
35	Surface modification of orthopedic implants by optimized fluorine-substituted hydroxyapatite coating: Enhancing corrosion behavior and cell function. *Ceramics International*, **2020**, 46, 2139-2146	5.1	20
34	Amorphous/crystalline phase control of nanotubular TiO2 membranes via pressure-engineered anodizing. *Materials and Design*, **2021**, 198, 109314	8.1	19
33	Programmed design of selectively-functionalized wood aerogel: Affordable and mildew-resistant solar-driven evaporator. *Nano Energy*, **2021**, 87, 106146	17.1	19
32	Excellent rheological performance and impact toughness of cellulose nanofibers/PLA/ionomer composite. *RSC Advances*, **2017**, 7, 28889-28897	3.7	18

31	Adsorption characteristics of directional cellulose nanofiber/chitosan/montmorillonite aerogel as adsorbent for wastewater treatment. *Separation and Purification Technology*, **2021**, 274, 119120	8.3	18
30	Homogeneous dispersion of chitin nanofibers in polylactic acid with different pretreatment methods. *Cellulose*, **2017**, 24, 1705-1715	5.5	15
29	Electrically conductive charcoal powder/ultrahigh molecular weight polyethylene composites. *Materials Letters*, **2014**, 137, 409-412	3.3	15
28	Cellulose-reinforced bioglass composite as flexible bioactive bandage to enhance bone healing. *Ceramics International*, **2021**, 47, 416-423	5.1	14
27	Comparative Study on Properties of Polylactic Acid Nanocomposites with Cellulose and Chitin Nanofibers Extracted from Different Raw Materials. *Journal of Nanomaterials*, **2017**, 2017, 1-11	3.2	13
26	Electrodes based on cellulose nanofibers/carbon nanotubes networks, polyaniline nanowires and carbon cloth for supercapacitors. *Materials Research Express*, **2019**, 6, 035008	1.7	13
25	Preparation and properties of wood plastic composite reinforced by ultralong cellulose nanofibers. *Polymer Composites*, **2016**, 37, 1206-1215	3	12
24	A solar and thermal multi-sensing microfiber supercapacitor with intelligent self-conditioned capacitance and body temperature monitoring. *Journal of Materials Chemistry A*, **2020**, 8, 11695-11711	13	11
23	Core‐Shell Structured Cellulose Nanofibers/Graphene@Polypyrrole Microfibers for All-Solid-State Wearable Supercapacitors with Enhanced Electrochemical Performance. *Macromolecular Materials and Engineering*, **2020**, 305, 1900854	3.9	11
22	Highly transparent chitin nanofiber/gelatin nanocomposite with enhanced mechanical properties. *Cellulose*, **2018**, 25, 5063-5070	5.5	10
21	Measurement of the elastic parameters of densified balsam fir wood in the radial-tangential plane using a digital image correlation (DIC) method. *Journal of Materials Science*, **2013**, 48, 7728-7735	4.3	10
20	Effect of delignification technique on the ease of fibrillation of cellulose II nanofibers from wood. *Cellulose*, **2018**, 25, 7003-7015	5.5	10
19	Synthesis of chitin nanofibers, MWCNTs and MnO2 nanoflakes 3D porous network flexible gel-film for high supercapacitive performance electrodes. *Applied Surface Science*, **2017**, 398, 33-42	6.7	8
18	A Comparative Study on the Characterization of Nanofibers with Cellulose I, I/II, and II Polymorphs from Wood. *Polymers*, **2019**, 11,	4.5	8
17	Mechanical, electrical, and thermal properties of highly filled bamboo charcoal/ultra-high molecular weight polyethylene composites. *Polymer Composites*, **2018**, 39, E1858-E1866	3	8
16	Analysis and Identification of the Mechanism of Damage and Fracture of High-Filled Wood Fiber/Recycled High-Density Polyethylene Composites. *Polymers*, **2019**, 11,	4.5	7
15	Size effect of charcoal particles on the properties of bamboo charcoal/ultra-high molecular weight polyethylene composites. *Journal of Applied Polymer Science*, **2017**, 134, 45530	2.9	7
14	Exploratory study on fatigue behaviour of laterally loaded, nailed timber joints, based on a dissipated energy criterion. *Holzforschung*, **2012**, 66, 863-869	2	7

13	A multicomponent interconnected composite paper for triple-mode sensors and flexible micro-supercapacitors. *Journal of Materials Chemistry A*, **2020**, 8, 24620-24634	13	7
12	Polypyrrole-decorated, milled carbon fibers-inserted chitin nanofibers/multiwalled carbon nanotubes flexible free-standing film for supercapacitors. *Polymer Composites*, **2019**, 40, 4311-4320	3	6
11	Effect of carbonization temperature on mechanical properties and biocompatibility of biochar/ultra-high molecular weight polyethylene composites. *Composites Part B: Engineering*, **2020** , 196, 108120	10	6
10	Acoustic Emission-Based Study to Characterize the Crack Initiation Point of Wood Fiber/HDPE Composites. *Polymers*, **2019**, 11,	4.5	5
9	OPTICALLY TRANSPARENT BIOCOMPOSITES: POLYMETHYLMETHACRYLATE REINFORCED WITH HIGH-PERFORMANCE CHITIN NANOFIBERS. *BioResources*, **2012**, 7,	1.3	4
8	Interface Reinforcement of Pulp Fiber Based ABS Composite with Hydrogen Bonding Initiated Interlinked Structure via Alkaline Oxidation and -Butyl Grafting on Cellulose. *Polymers*, **2019**, 11,	4.5	4
7	Toward Strong and Tough Wood-Based Hydrogels for Sensors. *Biomacromolecules*, **2021**,	6.9	3
6	Mildly processed chitin used in one-component drinking straws and single use materials: Strength, biodegradability and recyclability. *Chemical Engineering Journal*, **2022**, 442, 136173	14.7	3
5	Preparation and characterization of activated carbon/ultra-high molecular weight polyethylene composites. *Polymer Composites*, **2021**, 42, 2728	3	2
4	High mechanical properties of micro fibrillated cellulose/HDPE composites prepared with two different methods. *Cellulose*, **2021**, 28, 5449	5.5	2
3	Intermolecular self-assembly of dopamine-conjugated carboxymethylcellulose and carbon nanotubes toward supertough filaments and multifunctional wearables. *Chemical Engineering Journal*, **2021**, 416, 128981	14.7	2
2	Critical evaluation and thermodynamic optimization of the U-Pb and U-Sb binary systems. *Journal of Nuclear Materials*, **2016**, 480, 216-222	3.3	2
1	Bacterial Cellulose: The Nano-Scalar Cellulose Morphology for the Material of Transparent Regenerated Membrane. *Advanced Materials Research*, **2012**, 586, 30-38	0.5	1