Xinwu Xu

List of Publications by Year in Descending Order

34 papers	1,500 citations	18 h-index	38 g-index
38 ext. papers	2,084 ext. citations	6.4 avg, IF	5.17 L-index

#	Paper	IF	Citations
34	Synergistic Effect of APP and TBC Fire-Retardants on the Physico-Mechanical Properties of Strandboard.. *Materials*, **2022**, 15,	3.5	1
33	Simplified Synthesis of Fluoride-Free TiCT via Electrochemical Etching toward High-Performance Electrochemical Capacitors.. *ACS Nano*, **2022**,	16.7	13
32	Large areal capacity all-in-one lithium-ion battery based on boron-doped silicon/carbon hybrid anode material and cellulose framework.. *Journal of Colloid and Interface Science*, **2022**, 612, 679-688	9.3	0
31	Inherently Conductive Poly(dimethylsiloxane) Elastomers Synergistically Mediated by Nanocellulose/Carbon Nanotube Nanohybrids toward Highly Sensitive, Stretchable, and Durable Strain Sensors. *ACS Applied Materials & Interfaces*, **2021**,	9.5	9
30	Self-Recovery, Fatigue-Resistant, and Multifunctional Sensor Assembled by a Nanocellulose/Carbon Nanotube Nanocomplex-Mediated Hydrogel. *ACS Applied Materials & Interfaces*, **2021**, 13, 50281-50297	9.5	18
29	Interface Engineering of Silicon and Carbon by Forming a Graded Protective Sheath for High-Capacity and Long-Durable Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021** , 13, 15216-15225	9.5	15
28	Highly viscoelastic, stretchable, conductive, and self-healing strain sensors based on cellulose nanofiber-reinforced polyacrylic acid hydrogel. *Cellulose*, **2021**, 28, 4295-4311	5.5	40
27	Dynamical mechanical properties of wood-high density polyethylene composites filled with recycled rubber. *Journal of Bioresources and Bioproducts*, **2021**, 6, 152-159	18.7	5
26	Integrated design of aqueous zinc-ion batteries based on dendrite-free zinc microspheres/carbon nanotubes/nanocellulose composite film anode. *Journal of Colloid and Interface Science*, **2021**, 594, 389-397	9.3	10
25	Highly stretchable and self-healing cellulose nanofiber-mediated conductive hydrogel towards strain sensing application. *Journal of Colloid and Interface Science*, **2021**, 597, 171-181	9.3	38
24	Stabilizing zinc deposition with sodium lignosulfonate as an electrolyte additive to improve the life span of aqueous zinc-ion batteries. *Journal of Colloid and Interface Science*, **2021**, 601, 486-494	9.3	6
23	Thermothickening Drilling Fluids Containing Bentonite and Dual-Functionalized Cellulose Nanocrystals. *Energy & Fuels*, **2020**, 34, 8206-8215	4.1	16
22	Self-Healable Electro-Conductive Hydrogels Based on Core-Shell Structured Nanocellulose/Carbon Nanotubes Hybrids for Use as Flexible Supercapacitors. *Nanomaterials*, **2020**, 10,	5.4	49
21	An environmentally adaptive quasi-solid-state zinc-ion battery based on magnesium vanadate hydrate with commercial-level mass loading and anti-freezing gel electrolyte. *Journal of Materials Chemistry A*, **2020**, 8, 8397-8409	13	46
20	Regenerated waste tire powders as fillers for wood fiber composites. *BioResources*, **2020**, 15, 3029-3040	1.3	1
19	A stretchable, self-healing conductive hydrogels based on nanocellulose supported graphene towards wearable monitoring of human motion. *Carbohydrate Polymers*, **2020**, 250, 116905	10.3	76
18	An intrinsically self-healing and biocompatible electroconductive hydrogel based on nanostructured nanocellulose-polyaniline complexes embedded in a viscoelastic polymer network towards flexible conductors and electrodes. *Electrochimica Acta*, **2019**, 318, 660-672	6.7	101

17	Influence of silane/MaPE dual coupling agents on the rheological and mechanical properties of sawdust/rubber/HDPE composites. *Holzforschung*, **2019**, 73, 605-611	2	1
16	A self-healable and highly flexible supercapacitor integrated by dynamically cross-linked electro-conductive hydrogels based on nanocellulose-templated carbon nanotubes embedded in a viscoelastic polymer network. *Carbon*, **2019**, 149, 1-18	10.4	188
15	Highly Stretchable and Self-Healing Strain Sensors Based on Nanocellulose-Supported Graphene Dispersed in Electro-Conductive Hydrogels. *Nanomaterials*, **2019**, 9,	5.4	75
14	Electrospun Core-Shell Nanofibrous Membranes with Nanocellulose-Stabilized Carbon Nanotubes for Use as High-Performance Flexible Supercapacitor Electrodes with Enhanced Water Resistance, Thermal Stability, and Mechanical Toughness. *ACS Applied Materials & Interfaces*, **2019**, 11, 44624-44635	9.5	99
13	Sound absorbing properties of perforated composite panels of recycled rubber, fiberboard sawdust, and high density polyethylene. *Journal of Cleaner Production*, **2018**, 187, 215-221	10.3	26
12	Comparative mechanical, fire-retarding, and morphological properties of high-density polyethylene/(wood flour) composites with different flame retardants. *Journal of Vinyl and Additive Technology*, **2018**, 24, 3-12	2	5
11	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 27987-28002	9.5	296
10	The influence of grafted cellulose nanofibers and postextrusion annealing treatment on selected properties of poly(lactic acid) filaments for 3D printing. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 847-855	2.6	44
9	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. *Cellulose*, **2017**, 24, 4433-4448	5.5	101
8	Cationic surface modification of cellulose nanocrystals: Toward tailoring dispersion and interface in carboxymethyl cellulose films. *Polymer*, **2016**, 107, 200-210	3.9	60
7	Effect of Hybrid Talc-Basalt Fillers in the Shell Layer on Thermal and Mechanical Performance of Co-Extruded Wood Plastic Composites. *Materials*, **2015**, 8, 8510-8523	3.5	15
6	Extraction and Characterization of Cellulose Nanofibers from Phyllostachys nidularia Munro via a Combination of Acid Treatment and Ultrasonication. *BioResources*, **2014**, 9,	1.3	6
5	Thermal degradation of rice straw fibers: Global kinetic modeling with isothermal thermogravimetric analysis. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 670-676	6.3	16
4	High Density Polyethylene Composites Reinforced with Hybrid Inorganic Fillers: Morphology, Mechanical and Thermal Expansion Performance. *Materials*, **2013**, 6, 4122-4138	3.5	60
3	EFFECT OF HYBRID MINERAL AND BAMBOO FILLERS ON THERMAL EXPANSION BEHAVIOR OF BAMBOO FIBER AND RECYCLED POLYPROPYLENE/POLYETHYLENE COMPOSITES. *BioResources*, **2012**, 7,	1.3	8
2	THERMAL EXPANSION BEHAVIOR OF CO-EXTRUDED WOOD-PLASTIC COMPOSITES WITH GLASS-FIBER REINFORCED SHELLS. *BioResources*, **2012**, 7,	1.3	19
1	The influence of wax-sizing on dimension stability and mechanical properties of bagasse particleboard. *Industrial Crops and Products*, **2009**, 29, 80-85	5.9	36