Jingquan Han

List of Publications by Year in Descending Order

53 papers	4,382 citations	34 h-index	58 g-index
58 ext. papers	5,490 ext. citations	7.4 avg, IF	6.13 L-index

#	Paper	IF	Citations
53	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
52	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
51	Surface and Interface Engineering for Nanocellulosic Advanced Materials. *Advanced Materials*, **2021**, 33, e2002264	24	87
50	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
49	Effects of cellulose/salicylaldehyde thiosemicarbazone complexes on PVA based hydrogels: Portable, reusable, and high-precision luminescence sensing of Cu. *Journal of Hazardous Materials*, **2021**, 401, 123798	12.8	18
48	Recent advances in cellulose-based flexible triboelectric nanogenerators. *Nano Energy*, **2021**, 87, 106175	17.1	36
47	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
46	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. *Cellulose*, **2021**, 28, 1469-1488	5.5	25
45	Cellulose nanofibers from rapidly microwave-delignified energy cane bagasse and their application in drilling fluids as rheology and filtration modifiers. *Industrial Crops and Products*, **2020**, 150, 112378	5.9	15
44	Assessing the effects of cellulose-inorganic nanofillers on thermo/pH-dual responsive hydrogels. *Applied Surface Science*, **2020**, 528, 146961	6.7	8
43	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
42	Highly recyclable and super-tough hydrogel mediated by dual-functional TiO nanoparticles toward efficient photodegradation of organic water pollutants. *Journal of Colloid and Interface Science*, **2020**, 564, 99-112	9.3	29
41	Ultra-high rate capability of nanoporous carbon network@VO sub-micron brick composite as a novel cathode material for asymmetric supercapacitors. *Nanoscale*, **2020**, 12, 23213-23224	7.7	7
40	Overcoming Salt Contamination of Bentonite Water-Based Drilling Fluids with Blended Dual-Functionalized Cellulose Nanocrystals. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11569-11578	8.3	24
39	Self-healing Polyol/Borax Hydrogels: Fabrications, Properties and Applications. *Chemical Record*, **2020**, 20, 1142-1162	6.6	18
38	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
37	Hydrothermal synthesized UV-resistance and transparent coating composited superoloephilic electrospun membrane for high efficiency oily wastewater treatment. *Journal of Hazardous Materials*, **2020**, 383, 121152	12.8	140

36	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. *Cellulose*, **2019**, 26, 6653-6667	5.5	66
35	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
34	Green Preparation of Fluorescent Carbon Quantum Dots from Cyanobacteria for Biological Imaging. *Polymers*, **2019**, 11,	4.5	49
33	Ecofriendly Electrospun Membranes Loaded with Visible-Light-Responding Nanoparticles for Multifunctional Usages: Highly Efficient Air Filtration, Dye Scavenging, and Bactericidal Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 12880-12889	9.5	251
32	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
31	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
30	Assembly of Polyacrylamide-Sodium Alginate-Based Organic-Inorganic Hydrogel with Mechanical and Adsorption Properties. *Polymers*, **2019**, 11,	4.5	23
29	Highly Stretchable and Self-Healing Strain Sensors Based on Nanocellulose-Supported Graphene Dispersed in Electro-Conductive Hydrogels. *Nanomaterials*, **2019**, 9,	5.4	75
28	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
27	A Skin-Inspired Stretchable, Self-Healing and Electro-Conductive Hydrogel with A Synergistic Triple Network for Wearable Strain Sensors Applied in Human-Motion Detection. *Nanomaterials*, **2019**, 9,	5.4	50
26	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. *Industrial Crops and Products*, **2019**, 128, 94-107	5.9	124
25	Stimuli-responsive bio-based polymeric systems and their applications. *Journal of Materials Chemistry B*, **2019**, 7, 709-729	7.3	387
24	Effects of nanocellulose on sodium alginate/polyacrylamide hydrogel: Mechanical properties and adsorption-desorption capacities. *Carbohydrate Polymers*, **2019**, 206, 289-301	10.3	99
23	Biofilter treatment of gas phase □caryophyllene at an elevated temperature. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2018**, 53, 752-765	2.3	2
22	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
21	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
20	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. *Journal of Colloid and Interface Science*, **2018**, 532, 12-23	9.3	113
19	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 1000-1008	8.3	67

18	A comparative study of different nanoclay-reinforced cellulose nanofibril biocomposites with enhanced thermal and mechanical properties. *Composite Interfaces*, **2018**, 25, 301-315	2.3	5
17	Highly efficient visible-light photocatalyst based on cellulose derived carbon nanofiber/BiOBr composites. *Cellulose*, **2018**, 25, 4133-4144	5.5	44
16	Electrospun Nanofibers Membranes for Effective Air Filtration. *Macromolecular Materials and Engineering*, **2017**, 302, 1600353	3.9	313
15	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. *Separation and Purification Technology*, **2017**, 177, 71-85	8.3	110
14	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. *Cellulose*, **2017**, 24, 4433-4448	5.5	101
13	pH responsive polyurethane (core) and cellulose acetate phthalate (shell) electrospun fibers for intravaginal drug delivery. *Carbohydrate Polymers*, **2016**, 151, 1240-1244	10.3	83
12	Mechanical and morphological properties of coextruded wood plastic composites with glass fiber-filled shell. *Polymer Composites*, **2016**, 37, 824-834	3	10
11	Cellulose nanofibers reinforced sodium alginate-polyvinyl alcohol hydrogels: Core-shell structure formation and property characterization. *Carbohydrate Polymers*, **2016**, 147, 155-164	10.3	90
10	Upregulation of miR-24 promotes cell proliferation by targeting NAIF1 in non-small cell lung cancer. *Tumor Biology*, **2015**, 36, 3693-701	2.9	39
9	Characterization of cellulose I/II hybrid fibers isolated from energycane bagasse during the delignification process: Morphology, crystallinity and percentage estimation. *Carbohydrate Polymers*, **2015**, 133, 438-47	10.3	95
8	Cellulose fibers isolated from energycane bagasse using alkaline and sodium chlorite treatments: Structural, chemical and thermal properties. *Industrial Crops and Products*, **2015**, 76, 355-363	5.9	70
7	High-water-content mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: dynamic rheological properties and hydrogel formation mechanism. *Carbohydrate Polymers*, **2014**, 102, 306-16	10.3	161
6	Application of an ultrasonic wave propagation field in the quantitative identification of cavity defect of log disc. *Computers and Electronics in Agriculture*, **2014**, 108, 123-129	6.5	14
5	Facile preparation of mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: physical, viscoelastic and mechanical properties. *Cellulose*, **2013**, 20, 2947-2958	5.5	95
4	Effect of Acid Hydrolysis Conditions on the Properties of Cellulose Nanoparticle-Reinforced Polymethylmethacrylate Composites. *Materials*, **2013**, 7, 16-29	3.5	34
3	Self-assembling behavior of cellulose nanoparticles during freeze-drying: effect of suspension concentration, particle size, crystal structure, and surface charge. *Biomacromolecules*, **2013**, 14, 1529-40	6.9	312
2	Characterization of cellulose II nanoparticles regenerated from 1-butyl-3-methylimidazolium chloride. *Carbohydrate Polymers*, **2013**, 94, 773-81	10.3	130
1	Fluorescence in situ hybridization as adjunct to cytology improves the diagnosis and directs estimation of prognosis of malignant pleural effusions. *Journal of Cardiothoracic Surgery*, **2012**, 7, 121	1.6	10