

# Jingquan Han

## List of Publications by Citations

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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	Stimuli-responsive bio-based polymeric systems and their applications. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 709-729	7.3	387
52	Electrospun Nanofibers Membranes for Effective Air Filtration. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1600353	3.9	313
51	Self-assembling behavior of cellulose nanoparticles during freeze-drying: effect of suspension concentration, particle size, crystal structure, and surface charge. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1529-40	6.9	312
50	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27987-28002	9.5	296
49	Ecofriendly Electrospun Membranes Loaded with Visible-Light-Responding Nanoparticles for Multifunctional Usages: Highly Efficient Air Filtration, Dye Scavenging, and Bactericidal Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12880-12889	9.5	251
48	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. <i>Carbon</i> , <b>2019</b> , 149, 1-18	10.4	188
47	High-water-content mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: dynamic rheological properties and hydrogel formation mechanism. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 306-16	10.3	161
46	Hydrothermal synthesized UV-resistance and transparent coating composited superoleophilic electrospun membrane for high efficiency oily wastewater treatment. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121152	12.8	140
45	Characterization of cellulose II nanoparticles regenerated from 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 773-81	10.3	130
44	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. <i>Industrial Crops and Products</i> , <b>2019</b> , 128, 94-107	5.9	124
43	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 12-23	9.3	113
42	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. <i>Separation and Purification Technology</i> , <b>2017</b> , 177, 71-85	8.3	110
41	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. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 660-672	6.7	101
40	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. <i>Cellulose</i> , <b>2017</b> , 24, 4433-4448	5.5	101
39	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44624-44635	9.5	99
38	Effects of nanocellulose on sodium alginate/polyacrylamide hydrogel: Mechanical properties and adsorption-desorption capacities. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 289-301	10.3	99
37	Characterization of cellulose I/II hybrid fibers isolated from energycane bagasse during the delignification process: Morphology, crystallinity and percentage estimation. <i>Carbohydrate Polymers</i> , <b>2015</b> , 133, 438-47	10.3	95

36	Facile preparation of mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: physical, viscoelastic and mechanical properties. <i>Cellulose</i> , <b>2013</b> , 20, 2947-2958	5.5	95
35	Cellulose nanofibers reinforced sodium alginate-polyvinyl alcohol hydrogels: Core-shell structure formation and property characterization. <i>Carbohydrate Polymers</i> , <b>2016</b> , 147, 155-164	10.3	90
34	Surface and Interface Engineering for Nanocellulosic Advanced Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002264	24	87
33	pH responsive polyurethane (core) and cellulose acetate phthalate (shell) electrospun fibers for intravaginal drug delivery. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 1240-1244	10.3	83
32	A stretchable, self-healing conductive hydrogels based on nanocellulose supported graphene towards wearable monitoring of human motion. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116905	10.3	76
31	Highly Stretchable and Self-Healing Strain Sensors Based on Nanocellulose-Supported Graphene Dispersed in Electro-Conductive Hydrogels. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	75
30	Cellulose fibers isolated from energycane bagasse using alkaline and sodium chlorite treatments: Structural, chemical and thermal properties. <i>Industrial Crops and Products</i> , <b>2015</b> , 76, 355-363	5.9	70
29	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1000-1008	8.3	67
28	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. <i>Cellulose</i> , <b>2019</b> , 26, 6653-6667	5.5	66
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. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	50
26	Green Preparation of Fluorescent Carbon Quantum Dots from Cyanobacteria for Biological Imaging. <i>Polymers</i> , <b>2019</b> , 11,	4.5	49
25	Self-Healable Electro-Conductive Hydrogels Based on Core-Shell Structured Nanocellulose/Carbon Nanotubes Hybrids for Use as Flexible Supercapacitors. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	49
24	Highly efficient visible-light photocatalyst based on cellulose derived carbon nanofiber/BiOBr composites. <i>Cellulose</i> , <b>2018</b> , 25, 4133-4144	5.5	44
23	Highly viscoelastic, stretchable, conductive, and self-healing strain sensors based on cellulose nanofiber-reinforced polyacrylic acid hydrogel. <i>Cellulose</i> , <b>2021</b> , 28, 4295-4311	5.5	40
22	Upregulation of miR-24 promotes cell proliferation by targeting NAIF1 in non-small cell lung cancer. <i>Tumor Biology</i> , <b>2015</b> , 36, 3693-701	2.9	39
21	Highly stretchable and self-healing cellulose nanofiber-mediated conductive hydrogel towards strain sensing application. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 597, 171-181	9.3	38
20	Recent advances in cellulose-based flexible triboelectric nanogenerators. <i>Nano Energy</i> , <b>2021</b> , 87, 106175	17.1	36
19	Effect of Acid Hydrolysis Conditions on the Properties of Cellulose Nanoparticle-Reinforced Polymethylmethacrylate Composites. <i>Materials</i> , <b>2013</b> , 7, 16-29	3.5	34

18	Highly recyclable and super-tough hydrogel mediated by dual-functional TiO nanoparticles toward efficient photodegradation of organic water pollutants. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 564, 99-112	9.3	29
17	Sound absorbing properties of perforated composite panels of recycled rubber, fiberboard sawdust, and high density polyethylene. <i>Journal of Cleaner Production</i> , <b>2018</b> , 187, 215-221	10.3	26
16	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. <i>Cellulose</i> , <b>2021</b> , 28, 1469-1488	5.5	25
15	Overcoming Salt Contamination of Bentonite Water-Based Drilling Fluids with Blended Dual-Functionalized Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11569-11578	8.3	24
14	Assembly of Polyacrylamide-Sodium Alginate-Based Organic-Inorganic Hydrogel with Mechanical and Adsorption Properties. <i>Polymers</i> , <b>2019</b> , 11,	4.5	23
13	Self-Recovery, Fatigue-Resistant, and Multifunctional Sensor Assembled by a Nanocellulose/Carbon Nanotube Nanocomplex-Mediated Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50281-50297	9.5	18
12	Self-healing Polyol/Borax Hydrogels: Fabrications, Properties and Applications. <i>Chemical Record</i> , <b>2020</b> , 20, 1142-1162	6.6	18
11	Effects of cellulose/salicylaldehyde thiosemicarbazone complexes on PVA based hydrogels: Portable, reusable, and high-precision luminescence sensing of Cu. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123798	12.8	18
10	Cellulose nanofibers from rapidly microwave-delignified energy cane bagasse and their application in drilling fluids as rheology and filtration modifiers. <i>Industrial Crops and Products</i> , <b>2020</b> , 150, 112378	5.9	15
9	Application of an ultrasonic wave propagation field in the quantitative identification of cavity defect of log disc. <i>Computers and Electronics in Agriculture</i> , <b>2014</b> , 108, 123-129	6.5	14
8	Mechanical and morphological properties of coextruded wood plastic composites with glass fiber-filled shell. <i>Polymer Composites</i> , <b>2016</b> , 37, 824-834	3	10
7	Fluorescence in situ hybridization as adjunct to cytology improves the diagnosis and directs estimation of prognosis of malignant pleural effusions. <i>Journal of Cardiothoracic Surgery</i> , <b>2012</b> , 7, 121	1.6	10
6	Inherently Conductive Poly(dimethylsiloxane) Elastomers Synergistically Mediated by Nanocellulose/Carbon Nanotube Nanohybrids toward Highly Sensitive, Stretchable, and Durable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	9
5	Assessing the effects of cellulose-inorganic nanofillers on thermo/pH-dual responsive hydrogels. <i>Applied Surface Science</i> , <b>2020</b> , 528, 146961	6.7	8
4	Ultra-high rate capability of nanoporous carbon network@VO sub-micron brick composite as a novel cathode material for asymmetric supercapacitors. <i>Nanoscale</i> , <b>2020</b> , 12, 23213-23224	7.7	7
3	A comparative study of different nanoclay-reinforced cellulose nanofibril biocomposites with enhanced thermal and mechanical properties. <i>Composite Interfaces</i> , <b>2018</b> , 25, 301-315	2.3	5
2	Biofilter treatment of gas phase Eucaryophyllene at an elevated temperature. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2018</b> , 53, 752-765	2.3	2
1	Influence of silane/MaPE dual coupling agents on the rheological and mechanical properties of sawdust/rubber/HDPE composites. <i>Holzforschung</i> , <b>2019</b> , 73, 605-611	2	1

