Jian Zhou

List of Publications by Citations

39 papers	1,769 citations	22 h-index	39 g-index
39 ext. papers	2,094 ext. citations	7.9 avg, IF	5.27 L-index

#	Paper	IF	Citations
39	Flexible, Highly Graphitized Carbon Aerogels Based on Bacterial Cellulose/Lignin: Catalyst-Free Synthesis and its Application in Energy Storage Devices. *Advanced Functional Materials*, **2015**, 25, 3193-3202	15.6	219
38	Coaxial Thermoplastic Elastomer-Wrapped Carbon Nanotube Fibers for Deformable and Wearable Strain Sensors. *Advanced Functional Materials*, **2018**, 28, 1705591	15.6	163
37	Ultrasensitive, Stretchable Strain Sensors Based on Fragmented Carbon Nanotube Papers. *ACS Applied Materials & Interfaces*, **2017**, 9, 4835-4842	9.5	141
36	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. *Journal of Materials Chemistry C*, **2014**, 2, 9903-9910	7.1	140
35	Improving electrical conductivity in polycarbonate nanocomposites using highly conductive PEDOT/PSS coated MWCNTs. *ACS Applied Materials & Interfaces*, **2013**, 5, 6189-200	9.5	112
34	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. *Journal of Materials Chemistry C*, **2015**, 3, 2528-2538	7.1	100
33	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. *Nanoscale*, **2016**, 8, 12294-306	7.7	95
32	High-ampacity conductive polymer microfibers as fast response wearable heaters and electromechanical actuators. *Journal of Materials Chemistry C*, **2016**, 4, 1238-1249	7.1	80
31	Deformable and wearable carbon nanotube microwire-based sensors for ultrasensitive monitoring of strain, pressure and torsion. *Nanoscale*, **2017**, 9, 604-612	7.7	62
30	Lignin-based carbon fibers: Carbon nanotube decoration and superior thermal stability. *Carbon*, **2014**, 80, 91-102	10.4	61
29	Laser-engraved carbon nanotube paper for instilling high sensitivity, high stretchability, and high linearity in strain sensors. *Nanoscale*, **2017**, 9, 10897-10905	7.7	55
28	Conductive Polymer Protonated Nanocellulose Aerogels for Tunable and Linearly Responsive Strain Sensors. *ACS Applied Materials & Interfaces*, **2018**, 10, 27902-27910	9.5	50
27	Nanocellulose aerogel-based porous coaxial fibers for thermal insulation. *Nano Energy*, **2020**, 68, 104305	17.1	47
26	Porous core-shell carbon fibers derived from lignin and cellulose nanofibrils. *Materials Letters*, **2013**, 109, 175-178	3.3	43
25	Unraveling the Order and Disorder in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Nanofilms. *Macromolecules*, **2015**, 48, 5688-5696	5.5	40
24	Anisotropic Motion of Electroactive Papers Coated with PEDOT/PSS. *Macromolecular Materials and Engineering*, **2010**, 295, 671-675	3.9	33
23	Making a Bilateral Compression/Tension Sensor by Pre-Stretching Open-Crack Networks in Carbon Nanotube Papers. *ACS Applied Materials & Interfaces*, **2018**, 10, 33507-33515	9.5	33

22	Probing the Role of Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate)-Coated Multiwalled Carbon Nanotubes in the Thermal and Mechanical Properties of Polycarbonate Nanocomposites. *Industrial & Engineering Chemistry Research*, **2014**, 53, 3539-3549	3.9	32
21	Foldable Textile Electronic Devices Using All-Organic Conductive Fibers. *Advanced Engineering Materials*, **2014**, 16, 550-555	3.5	30
20	Wrinkle-Enabled Highly Stretchable Strain Sensors for Wide-Range Health Monitoring with a Big Data Cloud Platform. *ACS Applied Materials & Interfaces*, **2020**, 12, 43009-43017	9.5	27
19	Drastic modification of the piezoresistive behavior of polymer nanocomposites by using conductive polymer coatings. *Composites Science and Technology*, **2015**, 117, 342-350	8.6	26
18	Alcohol Recognition by Flexible, Transparent and Highly Sensitive Graphene-Based Thin-Film Sensors. *Scientific Reports*, **2017**, 7, 4317	4.9	23
17	A highly stretchable strain-insensitive temperature sensor exploits the Seebeck effect in nanoparticle-based printed circuits. *Journal of Materials Chemistry A*, **2019**, 7, 24493-24501	13	22
16	Buckled Conductive Polymer Ribbons in Elastomer Channels as Stretchable Fiber Conductor. *Advanced Functional Materials*, **2020**, 30, 1907316	15.6	21
15	Investigating the Inter-Tube Conduction Mechanism in Polycarbonate Nanocomposites Prepared with Conductive Polymer-Coated Carbon Nanotubes. *Nanoscale Research Letters*, **2015**, 10, 485	5	20
14	Directional electromechanical properties of PEDOT/PSS films containing aligned electrospun nanofibers. *Polymer Journal*, **2011**, 43, 849-854	2.7	16
13	Macroporous conductive polymer films fabricated by electrospun nanofiber templates and their electromechanical properties. *Nanotechnology*, **2011**, 22, 275501	3.4	16
12	Preparation of water-soluble graphene nanoplatelets and highly conductive films. *Carbon*, **2017**, 124, 133-141	10.4	13
11	Copolymer-enabled stretchable conductive polymer fibers. *Polymer*, **2019**, 177, 189-195	3.9	12
10	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. *Journal of Polymers and the Environment*, **2015**, 23, 595-605	4.5	11
9	Electromechanical Actuation of Highly Conductive PEDOT/PSS-coated Cellulose Papers. *Journal of Fiber Science and Technology*, **2011**, 67, 125-131	0	8
8	Buckled Fiber Conductors with Resistance Stability under Strain. *Advanced Fiber Materials*, **2021**, 3, 149-159	15.9	7
7	Design and Construction of Deformable Heaters: Materials, Structure, and Applications. *Advanced Electronic Materials*,2100452	6.4	7
6	Sodium Hypochlorite and Sodium Bromide Individualized and Stabilized Carbon Nanotubes in Water. *Langmuir*, **2017**, 33, 10868-10876	4	3
5	Evolution of the Seebeck effect in nanoparticle-percolated networks under applied strain. *Applied Materials Today*, **2022**, 28, 101503	6.6	1

4	Fibrillation of well-formed conductive aerogel for soft conductors. *Applied Materials Today*, **2022**, 26, 101399	6.6	0
3	Spontaneously spread polymer thin films on the miscible liquid substrates. *Chemical Engineering Journal*, **2022**, 437, 135443	14.7	0
2	Vapor phase polymerized high-performance Poly(3,4-ethylenedioxythiophene) using polyethyleneimine (PEI) as the base inhibitor and grafting agent for electrochromic medical face shields. *Chemical Engineering Journal*, **2022**, 445, 136818	14.7	0
1	Field Strain Measurement on the Fiber-Epoxy Scale in CFRPs. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 309-316	0.3	