Jiaqing Xiong

List of Publications by Citations

53 papers	2,336 citations	24 h-index	48 g-index
59 ext. papers	3,184 ext. citations	9.9 avg, IF	5.8 L-index

#	Paper	IF	Citations
53	Skin-touch-actuated textile-based triboelectric nanogenerator with black phosphorus for durable biomechanical energy harvesting. *Nature Communications*, **2018**, 9, 4280	17.4	270
52	Extremely stretchable and self-healing conductor based on thermoplastic elastomer for all-three-dimensional printed triboelectric nanogenerator. *Nature Communications*, **2019**, 10, 2158	17.4	188
51	Printable Superelastic Conductors with Extreme Stretchability and Robust Cycling Endurance Enabled by Liquid-Metal Particles. *Advanced Materials*, **2018**, 30, e1706157	24	150
50	Wearable All-Fabric-Based Triboelectric Generator for Water Energy Harvesting. *Advanced Energy Materials*, **2017**, 7, 1701243	21.8	149
49	Core-shell nanofiber mats for tactile pressure sensor and nanogenerator applications. *Nano Energy*, **2018**, 44, 248-255	17.1	142
48	Sodium alginate/graphene oxide aerogel with enhanced strength-toughness and its heavy metal adsorption study. *International Journal of Biological Macromolecules*, **2016**, 83, 133-41	7.9	140
47	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. *Chemical Engineering Journal*, **2020**, 399, 125746	14.7	119
46	Progress on triboelectric nanogenerator with stretchability, self-healability and bio-compatibility. *Nano Energy*, **2019**, 59, 237-257	17.1	105
45	Functional Fibers and Fabrics for Soft Robotics, Wearables, and Human-Robot Interface. *Advanced Materials*, **2021**, 33, e2002640	24	94
44	A Stretchable and Transparent Nanocomposite Nanogenerator for Self-Powered Physiological Monitoring. *ACS Applied Materials & Interfaces*, **2017**, 9, 42200-42209	9.5	92
43	All 3D-printed stretchable piezoelectric nanogenerator with non-protruding kirigami structure. *Nano Energy*, **2020**, 72, 104676	17.1	76
42	Self-restoring, waterproof, tunable microstructural shape memory triboelectric nanogenerator for self-powered water temperature sensor. *Nano Energy*, **2019**, 61, 584-593	17.1	72
41	A Deformable and Highly Robust Ethyl Cellulose Transparent Conductor with a Scalable Silver Nanowires Bundle Micromesh. *Advanced Materials*, **2018**, 30, e1802803	24	64
40	Transparent and stretchable bimodal triboelectric nanogenerators with hierarchical micro-nanostructures for mechanical and water energy harvesting. *Nano Energy*, **2019**, 64, 103904	17.1	61
39	Transparent, Flexible Cellulose Nanofibril–Phosphorene Hybrid Paper as Triboelectric Nanogenerator. *Advanced Materials Interfaces*, **2017**, 4, 1700651	4.6	55
38	Molecular Level Assembly for High-Performance Flexible Electrochromic Energy-Storage Devices. *ACS Energy Letters*, **2020**, 5, 1159-1166	20.1	54
37	A versatile amphiprotic cotton fiber for the removal of dyes and metal ions. *Cellulose*, **2014**, 21, 3073-3087	5.5	51

36	Progress on wearable triboelectric nanogenerators in shapes of fiber, yarn, and textile. *Science and Technology of Advanced Materials*, **2019**, 20, 837-857	7.1	48
35	Hybrid Mesoporous Silica Based on Hyperbranch-Substrate Nanonetwork as Highly Efficient Adsorbent for Water Treatment. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 60-68	8.3	47
34	Mechanically interlocked stretchable nanofibers for multifunctional wearable triboelectric nanogenerator. *Nano Energy*, **2020**, 78, 105358	17.1	36
33	Self-healable sticky porous elastomer for gas-solid interacted power generation. *Science Advances*, **2020**, 6, eabb4246	14.3	35
32	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. *ACS Nano*, **2021**, 15, 5307-5315	16.7	32
31	Amphiprotic cellulose mediated graphene oxide magnetic aerogels for water remediation. *Chemical Engineering Journal*, **2020**, 400, 125890	14.7	30
30	In situ synthesis of MnO2-loaded biocomposite based on microcrystalline cellulose for Pb2+ removal from wastewater. *Cellulose*, **2017**, 24, 2591-2604	5.5	26
29	Cellulose/polymer/silica composite cotton fiber based on a hyperbranch-mesostructure system as versatile adsorbent for water treatment. *Carbohydrate Polymers*, **2017**, 166, 271-280	10.3	20
28	Diphylleia grayi-Inspired Stretchable Hydrochromics with Large Optical Modulation in the Visible-Near-Infrared Region. *ACS Applied Materials & Interfaces*, **2018**, 10, 37685-37693	9.5	20
27	Meter-scale fabrication of water-driven triboelectric nanogenerator based on in-situ grown layered double hydroxides through a bottom-up approach. *Nano Energy*, **2020**, 71, 104646	17.1	19
26	Encapsulation of MnS Nanocrystals into N, S-Co-doped Carbon as Anode Material for Full Cell Sodium-Ion Capacitors. *Nano-Micro Letters*, **2020**, 12, 34	19.5	19
25	Printable elastomeric electrodes with sweat-enhanced conductivity for wearables. *Science Advances*, **2021**, 7,	14.3	17
24	Photothermal actuated origamis based on graphene oxide-cellulose programmable bilayers. *Nanoscale Horizons*, **2020**, 5, 730-738	10.8	15
23	Reconfigurable and programmable origami dielectric elastomer actuators with 3D shape morphing and emissive architectures. *NPG Asia Materials*, **2019**, 11,	10.3	10
22	A Tailorable Spray-Assembly Strategy of Silver Nanowires-Bundle Mesh for Transferable High-Performance Transparent Conductor. *Advanced Functional Materials*, **2021**, 31, 2006120	15.6	9
21	Sustainable Natural Bio-Origin Materials for Future Flexible Devices.. *Advanced Science*, **2022**, e2200560	13.6	9
20	Inkjet-Printed Iontronics for Transparent, Elastic, and Strain-Insensitive Touch Sensing Matrix. *Advanced Intelligent Systems*, **2020**, 2, 2000088	6	7
19	Synthesis of size tunable gold nanoparticles polymeric hybrid based on molecular nanocages. *Micro and Nano Letters*, **2014**, 9, 235-238	0.9	6

18	Cellulose for Sustainable Triboelectric Nanogenerators. *Advanced Energy and Sustainability Research*,2100161	1.6	6
17	A rational modification route to an amphiprotic cotton fiber as adsorbent for dyes. *Fibers and Polymers*, **2015**, 16, 1512-1518	2	5
16	Fabrication of Fe3O4 nano-aggregates hybrid material via self-assembly of nanocapsules based on amphiphilic hyperbranched polyglycerols. *Materials Letters*, **2015**, 139, 173-176	3.3	5
15	Silk inspired in-situ interlocked superelastic microfibers for permeable stretchable triboelectric nanogenerator. *Nano Energy*, **2022**, 98, 107347	17.1	5
14	Hyperbranched polymer functional cotton fabric for its in situ deposition of silver nanoparticles. *Japanese Journal of Applied Physics*, **2015**, 54, 06FH01	1.4	4
13	Flexible electrochromic fiber with rapid color switching and high optical modulation. *Nano Research*,1	10	4
12	Amino-Terminated Hyperbranched Polymer-Based Recyclable Elastic Fibers for a Breathable and Antibacterial Triboelectric Nanogenerator. *Macromolecular Materials and Engineering*,2200128	3.9	4
11	Preparation of a Novel Adsorbent and Heavy Metal Ion Adsorption. *Journal of Engineered Fibers and Fabrics*, **2014**, 9, 155892501400900	0.9	3
10	PEDOT: PSS-Based Microfluidic-Spun Microfibers for Tunable Release of Acetaminophen via Electrical Stimulation. *Advanced Materials Technologies*,2200103	6.8	3
9	Silk Fabric Decorated with Thermo-Sensitive Hydrogel for Sustained Release of Paracetamol. *Macromolecular Bioscience*,2200029	5.5	2
8	Design of amino terminated hyperbranched polymer modified SBA-15 as adsorbent for dyes. *Japanese Journal of Applied Physics*, **2015**, 54, 06FK04	1.4	1
7	Fabrication of Magnetite Nanorods via Polymer-mediated Self-assembly of Magnetite Nanoparticles. *Chemistry Letters*, **2015**, 44, 58-60	1.7	1
6	Strength-controllable graphene oxide amphiprotic aerogels as highly efficient carrier for anionic and cationic azo molecules. *Japanese Journal of Applied Physics*, **2015**, 54, 06FF07	1.4	1
5	Improving the Sensitivity of SPR Sensors with Au–Ag alloys and 2D Materials – a Simulation-Based Approach. *Advanced Theory and Simulations*, **2021**, 4, 2100292	3.5	1
4	New optimization approach for amphoteric/magnetic ramie biosorbent in dyestuff adsorption. *Biochemical Engineering Journal*, **2022**, 181, 108379	4.2	1
3	Regenerated cellulose microspheres-aerogel enabled sustainable removal of metal ions for water remediation. *Journal of Materials Science*, **2022**, 57, 8016	4.3	0
2	Design of high-strength recyclable graphene oxide-based porous composite for the removal of dyes. *Japanese Journal of Applied Physics*, **2015**, 54, 06FF03	1.4	
1	Synthesis and adsorption properties of polymer-mesoporous SiO2 nanocomposite based on cellulose biomass via self-assembly. *Japanese Journal of Applied Physics*, **2017**, 56, 06GJ01	1.4	