

Xu He

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

4,984
citations

201674

27
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

5067
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully organic compliant dry electrodes self-adhesive to skin for long-term motion-robust epidermal biopotential monitoring. <i>Nature Communications</i> , 2020, 11, 4683.	12.8	245
2	Quasi-solid state nanoparticle/(ionic liquid) gels with significantly high ionic thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10813-10821.	10.3	87
3	Quantifying and understanding the triboelectric series of inorganic non-metallic materials. <i>Nature Communications</i> , 2020, 11, 2093.	12.8	287
4	Flexible Quasi-Solid State Ionogels with Remarkable Seebeck Coefficient and High Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019, 9, 1901085.	19.5	199
5	Quantifying the triboelectric series. <i>Nature Communications</i> , 2019, 10, 1427.	12.8	1,107
6	On the Electron Transfer Mechanism in the Contact Electrification Effect. <i>Advanced Materials</i> , 2018, 30, e1706790.	21.0	483
7	Concurrent Harvesting of Ambient Energy by Hybrid Nanogenerators for Wearable Self-Powered Systems and Active Remote Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14708-14715.	8.0	78
8	Rationally designed sea snake structure based triboelectric nanogenerators for effectively and efficiently harvesting ocean wave energy with minimized water screening effect. <i>Nano Energy</i> , 2018, 48, 421-429.	16.0	195
9	A Hierarchically Nanostructured Cellulose Fiber-Based Triboelectric Nanogenerator for Self-Powered Healthcare Products. <i>Advanced Functional Materials</i> , 2018, 28, 1805540.	14.9	180
10	Fabrication and characterization of electrospun cellulose/nano-hydroxyapatite nanofibers for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 568-573.	7.5	132
11	Auxetic Foam-Based Contact-Mode Triboelectric Nanogenerator with Highly Sensitive Self-Powered Strain Sensing Capabilities to Monitor Human Body Movement. <i>Advanced Functional Materials</i> , 2017, 27, 1606695.	14.9	156
12	A Self-Powered Dynamic Displacement Monitoring System Based on Triboelectric Accelerometer. <i>Advanced Energy Materials</i> , 2017, 7, 1700565.	19.5	117
13	Self-Powered Wireless Sensor Node Enabled by a Duck-Shaped Triboelectric Nanogenerator for Harvesting Water Wave Energy. <i>Advanced Energy Materials</i> , 2017, 7, 1601705.	19.5	198
14	A Highly Stretchable Fiber-Based Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017, 27, 1604378.	14.9	296
15	Fabrication and Characterization of Highly Porous Fe(OH) ₃ @Cellulose Hybrid Fibers for Effective Removal of Congo Red from Contaminated Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7723-7732.	6.7	69
16	Light-Triggered Pyroelectric Nanogenerator Based on a pn-Junction for Self-Powered Near-Infrared Photosensing. <i>ACS Nano</i> , 2017, 11, 8339-8345.	14.6	147
17	Superhydrophilic graphene oxide@electrospun cellulose nanofiber hybrid membrane for high-efficiency oil/water separation. <i>Carbohydrate Polymers</i> , 2017, 175, 216-222.	10.2	104
18	An aeroelastic flutter based triboelectric nanogenerator as a self-powered active wind speed sensor in harsh environment. <i>Extreme Mechanics Letters</i> , 2017, 15, 122-129.	4.1	123

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19	One-Step Fabrication of Fe(OH) ₃ @Cellulose Hollow Nanofibers with Superior Capability for Water Purification. ACS Applied Materials & Interfaces, 2017, 9, 25339-25349.	8.0	38
20	Fully Packaged Blue Energy Harvester by Hybridizing a Rolling Triboelectric Nanogenerator and an Electromagnetic Generator. ACS Nano, 2016, 10, 11369-11376.	14.6	181
21	Tissue engineering scaffolds electrospun from cotton cellulose. Carbohydrate Polymers, 2015, 115, 485-493.	10.2	50
22	Reinforcement of all-cellulose nanocomposite films using native cellulose nanofibrils. Carbohydrate Polymers, 2014, 104, 143-150.	10.2	74
23	Uniaxially Aligned Electrospun All-Cellulose Nanocomposite Nanofibers Reinforced with Cellulose Nanocrystals: Scaffold for Tissue Engineering. Biomacromolecules, 2014, 15, 618-627.	5.4	187
24	Acrylic acid grafted and acrylic acid/sodium humate grafted bamboo cellulose nanofibers for Cu ²⁺ adsorption. RSC Advances, 2014, 4, 55195-55201.	3.6	49
25	High performance poly (vinyl alcohol)/cellulose nanocrystals nanocomposites manufactured by injection molding. Cellulose, 2014, 21, 485-494.	4.9	67
26	Mechanically robust, flame-retardant and anti-bacterial nanocomposite films comprised of cellulose nanofibrils and magnesium hydroxide nanoplatelets in a regenerated cellulose matrix. Cellulose, 2014, 21, 1859-1872.	4.9	49
27	Aerogels from quaternary ammonium-functionalized cellulose nanofibers for rapid removal of Cr(VI) from water. Carbohydrate Polymers, 2014, 111, 683-687.	10.2	86