Xi Chen

List of Publications by Year
in descending order

21	1,615	759233	888059
papers	citations	12 h-index	17 g-index

22	22	22	2424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	1.6 V Nanogenerator for Mechanical Energy Harvesting Using PZT Nanofibers. Nano Letters, 2010, 10, 2133-2137.	9.1	808
2	Scaling up nanoscale water-driven energy conversion into evaporation-driven engines and generators. Nature Communications, 2015, 6, 7346.	12.8	189
3	Bacillus spores as building blocks for stimuli-responsive materials and nanogenerators. Nature Nanotechnology, 2014, 9, 137-141.	31.5	166
4	Potential for natural evaporation as a reliable renewable energy resource. Nature Communications, 2017, 8, 617.	12.8	141
5	Potential measurement from a single lead ziroconate titanate nanofiber using a nanomanipulator. Applied Physics Letters, 2009, 94, .	3.3	80
6	Water-responsive materials for sustainable energy applications. Journal of Materials Chemistry A, 2020, 8, 15227-15244.	10.3	57
7	Mechanistic insights of evaporation-induced actuation in supramolecular crystals. Nature Materials, 2021, 20, 403-409.	27.5	44
8	Flexible piezoelectric nanofiber composite membranes as high performance acoustic emission sensors. Sensors and Actuators A: Physical, 2013, 199, 372-378.	4.1	33
9	PZT Nanoactive Fiber Composites for Acoustic Emission Detection. Advanced Materials, 2011, 23, 3965-3969.	21.0	26
10	Sporeâ€Based Waterâ€Resistant Waterâ€Responsive Actuators with High Power Density. Advanced Materials Technologies, 2019, 4, 1800596.	5.8	20
11	Î²â€Sheet Nanocrystals Dictate Water Responsiveness of Bombyx Mori Silk. Macromolecular Rapid Communications, 2020, 41, e1900612.	3.9	15
12	High Energy and Power Density Peptidoglycan Muscles through Superâ€Viscous Nanoconfined Water. Advanced Science, 2022, 9, e2104697.	11.2	14
13	Energy Harvesting Based on PZT Nanofibers. Green Energy and Technology, 2011, , 425-438.	0.6	8
14	Adjustable stiffness of individual piezoelectric nanofibers by electron beam polarization. Applied Physics Letters, 2011, 99, .	3.3	8
15	PZT Nano Active Fiber Composites-Based Acoustic Emission Sensor. , 2013, , 9-22.		2
16	Characterization of Piezoelectric Nanofiber Composites Acoustic Emission Sensor for Structure Health Monitoring. , 2012, , .		1
17	Tuning water-responsiveness with Bombyx mori silkâ€“silica nanoparticle composites. Soft Matter, 2021, 17, 7817-7821.	2.7	1
18	Piezoelectric property of PZT nanofibers characterized by resonant piezo-force microscopy. AIP Advances, 2022, 12, 035203.	1.3	1

#	Article	IF	Citations
19	Bioinspired Green Science and Technology Symposium in NYC. Matter, 2022, 5, 1980-1984.	10.0	1
20	A PZT nanofiber composites sensor for structure health monitoring. , 2011, , .		0
21	Ultra Low Power Energy Storage Circuit for Piezoelectric Nanogenerators. , 2011, , .		0