

Bin Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

3,267
citations

23
h-index

52
g-index

52
ext. papers

4,042
ext. citations

7.7
avg, IF

5.77
L-index

#	Paper	IF	Citations
50	Stretchable Phosphor/Boron Nitride Nanosheet/Polydimethylsiloxane Films for Thermal Management and Rapid Monitoring. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1431-1439	4.3	0
49	Seeking advanced thermal management for stretchable electronics. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	10
48	Interface induced performance enhancement in flexible BaTiO ₃ /PVDF-TrFE based piezoelectric nanogenerators. <i>Nano Energy</i> , 2021 , 80, 105515	17.1	52
47	Thermal effect on the efficiency and stability of luminescent solar concentrators based on colloidal quantum dots. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5723-5731	7.1	3
46	Magnetic-Electrospinning Synthesis of FeO Nanoparticle-Embedded Flexible Nanofibrous Films for Electromagnetic Shielding. <i>Polymers</i> , 2020 , 12,	4.5	5
45	Dielectric Modulated Cellulose Paper/PDMS-Based Triboelectric Nanogenerators for Wireless Transmission and Electropolymerization Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1904536	15.6	71
44	A high performance wearable strain sensor with advanced thermal management for motion monitoring. <i>Nature Communications</i> , 2020 , 11, 3530	17.4	141
43	Highly conductive, flexible and functional multi-channel graphene microtube fabricated by electro spray deposition technique. <i>Journal of Materials Science</i> , 2019 , 54, 14378-14387	4.3	5
42	A stretchable laminated GNRs/BNNSs nanocomposite with high electrical and thermal conductivity. <i>Nanoscale</i> , 2019 , 11, 20648-20658	7.7	21
41	Cellulose/BaTiO ₃ aerogel paper based flexible piezoelectric nanogenerators and the electric coupling with triboelectricity. <i>Nano Energy</i> , 2019 , 57, 450-458	17.1	121
40	Highly Thermally Conductive Yet Electrically Insulating Polymer/Boron Nitride Nanosheets Nanocomposite Films for Improved Thermal Management Capability. <i>ACS Nano</i> , 2019 , 13, 337-345	16.7	293
39	High-k polymer nanocomposites with 1D filler for dielectric and energy storage applications. <i>Progress in Materials Science</i> , 2019 , 100, 187-225	42.2	251
38	Synergistic effect of graphene nanosheet and BaTiO ₃ nanoparticles on performance enhancement of electrospun PVDF nanofiber mat for flexible piezoelectric nanogenerators. <i>Nano Energy</i> , 2018 , 52, 153-162	17.1	206
37	Wireless piezoelectric devices based on electrospun PVDF/BaTiO NW nanocomposite fibers for human motion monitoring. <i>Nanoscale</i> , 2018 , 10, 17751-17760	7.7	97
36	Vertically Aligned and Interconnected Boron Nitride Nanosheets for Advanced Flexible Nanocomposite Thermal Interface Materials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30909-30917	9.5	186
35	Fabrication and biocompatibility of poly(l-lactic acid) and chitosan composite scaffolds with hierarchical microstructures. <i>Materials Science and Engineering C</i> , 2016 , 64, 341-345	8.3	29
34	Color Manipulation of Intense Multiluminescence from CaZnOS:Mn ²⁺ by Mn ²⁺ Concentration Effect. <i>Chemistry of Materials</i> , 2015 , 27, 7481-7489	9.6	114

33	Electrospun anisotropic architectures and porous structures for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5389-5410	7.3	62
32	Recent advances in flexible and stretchable electronic devices via electrospinning. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1209-1219	7.1	127
31	Eu ²⁺ /Eu ³⁺ -emission-ratio-tunable CaZr(PO ₄) ₂ :Eu phosphors synthesized in air atmosphere for potential white light-emitting deep UV LEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 312-318	7.1	93
30	Fabrication of Microfibrous Patterns via Electrospinning. <i>Materials Science Forum</i> , 2014 , 789, 32-35	0.4	
29	Fabrication of comb-like ZnO nanostructures for room-temperature CO gas sensing application. <i>Vacuum</i> , 2014 , 101, 113-117	3.7	31
28	Advances in three-dimensional nanofibrous macrostructures via electrospinning. <i>Progress in Polymer Science</i> , 2014 , 39, 862-890	29.6	486
27	Fabrication and Formation Mechanism of Electrospun Spatially Defined Fibrous Patterning Structures on Conductive and Insulating Substrates. <i>Key Engineering Materials</i> , 2014 , 609-610, 842-848	0.4	2
26	Needleless electrospinning for large scale production of ultrathin polymer fibres. <i>Materials Research Innovations</i> , 2014 , 18, S4-833-S4-837	1.9	9
25	Elastico-mechanoluminescent enhancement with Gd ³⁺ codoping in diphase (Ba,Ca)TiO ₃ :Pr ³⁺ . <i>Optical Materials Express</i> , 2014 , 4, 2300	2.6	13
24	Mechanical and electrical properties of electrospun PVDF/MWCNT ultrafine fibers using rotating collector. <i>Nanoscale Research Letters</i> , 2014 , 9, 522	5	45
23	Electrical Properties of Electrospun Flexible and Stretchable PVDF/PANI Nanoropes. <i>Applied Mechanics and Materials</i> , 2014 , 687-691, 4218-4222	0.3	
22	Fabrication of highly ordered porous anodic alumina membrane with ultra-large pore intervals in ethylene glycol-modified citric acid solution. <i>Journal of Porous Materials</i> , 2013 , 20, 785-788	2.4	23
21	Ultrafast Response Humidity Sensor Based on Electrospun Porous BaTiO ₃ Nanofibers. <i>Applied Mechanics and Materials</i> , 2013 , 319, 43-48	0.3	2
20	Solventless electrospinning of ultrathin polycyanoacrylate fibers. <i>Polymer Chemistry</i> , 2013 , 4, 5696	4.9	36
19	Thickness dependence of stress in La _{0.9} Sr _{0.1} MnO ₃ monocrystalline nanofilms using synchrotron radiation X-ray diffraction. <i>Journal of Crystal Growth</i> , 2013 , 366, 39-42	1.6	
18	Fabrication of Fluorescent Polymer Crossbar Arrays and Micropores via Centrifugal Electrospinning. <i>Advanced Materials Research</i> , 2013 , 785-786, 517-522	0.5	2
17	Fabrication of curled conducting polymer microfibrous arrays via a novel electrospinning method for stretchable strain sensors. <i>Nanoscale</i> , 2013 , 5, 7041-5	7.7	85
16	Assembly of Oriented Ultrafine Polymer Fibers by Centrifugal Electrospinning. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-9	3.2	18

15	Synthesis, Structural and Photoelectrical Properties of Self-Assembled Gold-Poly(3,4-Ethylenedioxythiophene) Nanowires and Nanocables. <i>Advanced Materials Research</i> , 2013 , 650, 200-205	0.5	
14	Aligned Nanofiber Arrays and Twisted Nanofiber Ropes via Electrospinning with Two Frames Collector. <i>Advanced Materials Research</i> , 2013 , 690-693, 523-526	0.5	3
13	Self-assembly of a three-dimensional fibrous polymer sponge by electrospinning. <i>Nanoscale</i> , 2012 , 4, 2134-7	7.7	101
12	Recent advances in solar cells based on one-dimensional nanostructure arrays. <i>Nanoscale</i> , 2012 , 4, 2783-96	7.7	191
11	Recent advances in large-scale assembly of semiconducting inorganic nanowires and nanofibers for electronics, sensors and photovoltaics. <i>Chemical Society Reviews</i> , 2012 , 41, 4560-80	58.5	254
10	Assembly of Well-Aligned Electrospun Nanofibers via Contact-Transfer Printing. <i>Advanced Materials Research</i> , 2012 , 562-564, 277-280	0.5	
9	Preparation and Electrochemical Properties of LiMn ₂ O ₄ Nanofibers via Electrospinning for Lithium Ion Batteries. <i>Advanced Materials Research</i> , 2012 , 562-564, 799-802	0.5	2
8	Synthesis, Structural and Gas Sensing Properties of Nano-Branched Coaxial Polyaniline Fibers by Electrospinning. <i>Advanced Materials Research</i> , 2012 , 562-564, 308-311	0.5	6
7	Electrospun fluorescein/polymer composite nanofibers and their photoluminescent properties. <i>Chinese Physics B</i> , 2012 , 21, 097805	1.2	7
6	Polymer nanofibers prepared by low-voltage near-field electrospinning. <i>Chinese Physics B</i> , 2012 , 21, 048102	1.2	20
5	Preparation, Electrical Conductivity, Photocurrent and Wettability of Carbon Microcoils. <i>Advanced Materials Research</i> , 2012 , 465, 125-131	0.5	
4	Fabrication of Nanofibers by Low-Voltage Near-Field Electrospinning. <i>Advanced Materials Research</i> , 2012 , 486, 60-64	0.5	6
3	Synthesis, Electrical and Humidity Sensing Properties of BaTiO ₃ Nanofibers via Electrospinning. <i>Advanced Materials Research</i> , 2011 , 418-420, 684-687	0.5	2
2	Preparation of Curled Microfibers by Electrospinning with Tip Collector. <i>Chinese Physics Letters</i> , 2011 , 28, 056801	1.8	14
1	Hierarchical PVDF-HFP/ZnO composite nanofiberBased highly sensitive piezoelectric sensor for wireless workout monitoring. <i>Advanced Composites and Hybrid Materials</i> , 2011 , 1	8.7	22