Bin Sun

List of Publications by Year
in descending order

50 papers	4,814 citations	218592 26 h-index	315616 38 g-index
52 all docs	52 docs citations	52 times ranked	6448 citing authors

#	Article	IF	Citations
1	Advances in three-dimensional nanofibrous macrostructures via electrospinning. Progress in Polymer Science, 2014, 39, 862-890.	11.8	623
2	Highly Thermally Conductive Yet Electrically Insulating Polymer/Boron Nitride Nanosheets Nanocomposite Films for Improved Thermal Management Capability. ACS Nano, 2019, 13, 337-345.	7.3	514
3	High-k polymer nanocomposites with 1D filler for dielectric and energy storage applications. Progress in Materials Science, 2019, 100, 187-225.	16.0	394
4	Synergistic effect of graphene nanosheet and BaTiO3 nanoparticles on performance enhancement of electrospun PVDF nanofiber mat for flexible piezoelectric nanogenerators. Nano Energy, 2018, 52, 153-162.	8.2	340
5	A high performance wearable strain sensor with advanced thermal management for motion monitoring. Nature Communications, 2020, 11, 3530.	5.8	313
6	Recent advances in large-scale assembly of semiconducting inorganic nanowires and nanofibers for electronics, sensors and photovoltaics. Chemical Society Reviews, 2012, 41, 4560.	18.7	282
7	Vertically Aligned and Interconnected Boron Nitride Nanosheets for Advanced Flexible Nanocomposite Thermal Interface Materials. ACS Applied Materials & Interfaces, 2017, 9, 30909-30917.	4.0	282
8	Recent advances in solar cells based on one-dimensional nanostructure arrays. Nanoscale, 2012, 4, 2783.	2.8	211
9	Cellulose/BaTiO3 aerogel paper based flexible piezoelectric nanogenerators and the electric coupling with triboelectricity. Nano Energy, 2019, 57, 450-458.	8.2	188
10	Wireless piezoelectric devices based on electrospun PVDF/BaTiO₃ NW nanocomposite fibers for human motion monitoring. Nanoscale, 2018, 10, 17751-17760.	2.8	165
11	Interface induced performance enhancement in flexible BaTiO3/PVDF-TrFE based piezoelectric nanogenerators. Nano Energy, 2021, 80, 105515.	8.2	157
12	Color Manipulation of Intense Multiluminescence from CaZnOS:Mn²⁺ by Mn²⁺ Concentration Effect. Chemistry of Materials, 2015, 27, 7481-7489.	3.2	149
13	Recent advances in flexible and stretchable electronic devices via electrospinning. Journal of Materials Chemistry C, 2014, 2, 1209-1219.	2.7	144
14	Dielectric Modulated Cellulose Paper/PDMSâ€Based Triboelectric Nanogenerators for Wireless Transmission and Electropolymerization Applications. Advanced Functional Materials, 2020, 30, 1904536.	7.8	142
15	Self-assembly of a three-dimensional fibrous polymer sponge by electrospinning. Nanoscale, 2012, 4, 2134.	2.8	121
16	Eu²⁺/Eu³⁺-emission-ratio-tunable CaZr(PO₄)₂:Eu phosphors synthesized in air atmosphere for potential white light-emitting deep UV LEDs. Journal of Materials Chemistry C, 2014, 2, 312-318.	2.7	105
17	Fabrication of curled conducting polymer microfibrous arrays via a novel electrospinning method for stretchable strain sensors. Nanoscale, 2013, 5, 7041.	2.8	97
18	Hierarchical PVDF-HFP/ZnO composite nanofiberâ€“based highly sensitive piezoelectric sensor for wireless workout monitoring. Advanced Composites and Hybrid Materials, 2022, 5, 766-775.	9.9	80

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19	Electrospun anisotropic architectures and porous structures for tissue engineering. Journal of Materials Chemistry B, 2015, 3, 5389-5410.	2.9	75
20	Mechanical and electrical properties of electrospun PVDF/MWCNT ultrafine fibers using rotating collector. Nanoscale Research Letters, 2014, 9, 522.	3.1	58
21	Solventless electrospinning of ultrathin polycyanoacrylate fibers. Polymer Chemistry, 2013, 4, 5696.	1.9	42
22	Fabrication of comb-like ZnO nanostructures for room-temperature CO gas sensing application. Vacuum, 2014, 101, 113-117.	1.6	36
23	Seeking advanced thermal management for stretchable electronics. Npj Flexible Electronics, 2021, 5, .	5.1	35
24	Fabrication and biocompatibility of poly(l-lactic acid) and chitosan composite scaffolds with hierarchical microstructures. Materials Science and Engineering C, 2016, 64, 341-345.	3.8	33
25	A stretchable laminated GNRs/BNNSs nanocomposite with high electrical and thermal conductivity. Nanoscale, 2019, 11, 20648-20658.	2.8	30
26	Fabrication of highly ordered porous anodic alumina membrane with ultra-large pore intervals in ethylene glycol-modified citric acid solution. Journal of Porous Materials, 2013, 20, 785-788.	1.3	29
27	Polymer nanofibers prepared by low-voltage near-field electrospinning. Chinese Physics B, 2012, 21, 048102.	0.7	24
28	Assembly of Oriented Ultrafine Polymer Fibers by Centrifugal Electrospinning. Journal of Nanomaterials, 2013, 2013, 1-9.	1.5	24
29	Elastico-mechanoluminescent enhancement with Gd^3+ codoping in diphase (Ba,Ca)TiO_3:Pr^3+. Optical Materials Express, 2014, 4, 2300.	1.6	19
30	Preparation of Curled Microfibers by Electrospinning with Tip Collector. Chinese Physics Letters, 2011, 28, 056801.	1.3	18
31	Magnetic-Electrospinning Synthesis of Î³-Fe2O3 Nanoparticleâ€“Embedded Flexible Nanofibrous Films for Electromagnetic Shielding. Polymers, 2020, 12, 695.	2.0	15
32	Needleless electrospinning for large scale production of ultrathin polymer fibres. Materials Research Innovations, 2014, 18, S4-833-S4-837.	1.0	11
33	Electrospun fluorescein/polymer composite nanofibers and their photoluminescent properties. Chinese Physics B, 2012, 21, 097805.	0.7	8
34	Highly conductive, flexible and functional multi-channel graphene microtube fabricated by electrospray deposition technique. Journal of Materials Science, 2019, 54, 14378-14387.	1.7	7
35	Thermal effect on the efficiency and stability of luminescent solar concentrators based on colloidal quantum dots. Journal of Materials Chemistry C, 2021, 9, 5723-5731.	2.7	7
36	Synthesis, Electrical and Humidity Sensing Properties of BaTiO₃ Nanofibers via Electrospinning. Advanced Materials Research, 0, 418-420, 684-687.	0.3	6

#	Article	IF	Citations
37	Synthesis, Structural and Gas Sensing Properties of Nano-Branched Coaxial Polyaniline Fibers by Electrospinning. Advanced Materials Research, 0, 562-564, 308-311.	0.3	6
38	Fabrication of Nanofibers by Low-Voltage Near-Field Electrospinning. Advanced Materials Research, 2012, 486, 60-64.	0.3	6
39	Stretchable Phosphor/Boron Nitride Nanosheet/Polydimethylsiloxane Films for Thermal Management and Rapid Monitoring. ACS Applied Polymer Materials, 2022, 4, 1431-1439.	2.0	6
40	Aligned Nanofiber Arrays and Twisted Nanofiber Ropes via Electrospinning with Two Frames Collector. Advanced Materials Research, 0, 690-693, 523-526.	0.3	4
41	Preparation and Electrochemical Properties of LiMn₂O₄ Nanofibers via Electrospinning for Lithium Ion Batteries. Advanced Materials Research, 0, 562-564, 799-802.	0.3	2
42	Ultrafast Response Humidity Sensor Based on Electrospun Porous BaTiO₃ Nanofibers. Applied Mechanics and Materials, 2013, 319, 43-48.	0.2	2
43	Fabrication of Fluorescent Polymer Crossbar Arrays and Microropes v<i>ia</i> Centrifugal Electrospinning. Advanced Materials Research, 0, 785-786, 517-522.	0.3	2
44	Fabrication and Formation Mechanism of Electrospun Spatially Defined Fibrous Patterning Structures on Conductive and Insulating Substrates. Key Engineering Materials, 0, 609-610, 842-848.	0.4	2
45	Assembly of Well-Aligned Electrospun Nanofibers via Contact-Transfer Printing. Advanced Materials Research, 0, 562-564, 277-280.	0.3	0
46	Preparation, Electrical Conductivity, Photocurrent and Wettability of Carbon Microcoils. Advanced Materials Research, 0, 465, 125-131.	0.3	0
47	Thickness dependence of stress in La0.9Sr0.1MnO3 monocrystalline nanofilms using synchrotron radiation X-ray diffraction. Journal of Crystal Growth, 2013, 366, 39-42.	0.7	0
48	Synthesis, Structural and Photoelectrical Properties of Self-Assembled Gold-Poly(3,4-Ethylenedioxythiophene) Nanowires and Nanocables. Advanced Materials Research, 2013, 650, 200-205.	0.3	0
49	Electrical Properties of Electrospun Flexible and Stretchable PVDF/PANI Nanoropes. Applied Mechanics and Materials, 0, 687-691, 4218-4222.	0.2	0
50	Fabrication of Microfibrous Patterns via Electrospinning. Materials Science Forum, 2014, 789, 32-35.	0.3	0