

Yao Wang

List of Publications by Year in descending order

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62
papers

2,784
citations

186265

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h-index

175258

52
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64
all docs

64
docs citations

64
times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	N-type core-shell heterostructured Bi ₂ S ₃ @Bi nanorods/polyaniline hybrids for stretchable thermoelectric generator. Chinese Physics B, 2022, 31, 028204.	1.4	6
2	High-performance Stretchable Organic Thermoelectric Generator via Rational Thermal Interface Design for Wearable Electronics. Advanced Energy Materials, 2022, 12, .	19.5	27
3	Controllable electrical, magnetoelectric and optical properties of BiFeO ₃ via domain engineering. Progress in Materials Science, 2022, 127, 100943.	32.8	40
4	Experimental and Numerical Investigation on C/SiC Composite Z-Pinned/Bonded Hybrid Single-Lap Joints. Materials, 2021, 14, 1130.	2.9	1
5	Design on orientation of one-dimensional ZnO/P(VDF-HFP) nanocomposites for significant enhanced electromechanical conversion. Composites Science and Technology, 2021, 204, 108635.	7.8	5
6	Double enhanced energy storage density via polarization gradient design in ferroelectric poly(vinylidene fluoride)-based nanocomposites. Chemical Engineering Journal, 2021, 411, 128585.	12.7	25
7	Recyclable, Healable, and Stretchable High-power Thermoelectric Generator. Advanced Energy Materials, 2021, 11, 2100920.	19.5	65
8	Tunable coffee-ring formation of halloysite nanotubes by evaporating sessile drops. Soft Matter, 2021, 17, 9514-9527.	2.7	6
9	Significantly enhanced thermoelectric performance in SWCNT films via carrier tuning for high power generation. Carbon, 2020, 158, 802-807.	10.3	22
10	3D geometrically structured PANI/CNT-decorated polydimethylsiloxane active pressure and temperature dual-parameter sensors for man-machine interaction applications. Journal of Materials Chemistry A, 2020, 8, 15167-15176.	10.3	55
11	Flexible 3D Architected Piezo/Thermoelectric Bimodal Tactile Sensor Array for e-Skin Application. Advanced Energy Materials, 2020, 10, 2001945.	19.5	96
12	Design on polarization distribution in all-organic polymer hybrids for high density energy storage. Chemical Engineering Journal, 2020, 394, 125052.	12.7	29
13	Multiple Interfacial Modifications in Poly(vinylidene fluoride)/Barium Titanate Nanocomposites via Double-Shell Architecture for Significantly Enhanced Energy Storage Density. ACS Applied Energy Materials, 2019, 2, 5945-5953.	5.1	29
14	A review of biomass materials for advanced lithium-sulfur batteries. Chemical Science, 2019, 10, 7484-7495.	7.4	180
15	Flexible thermopower generation over broad temperature range by PANI/nanorod hybrid-based p-n couples. Journal of Materials Chemistry A, 2019, 7, 1718-1724.	10.3	29
16	A flexible active dual-parameter sensor for sensitive temperature and physiological signal monitoring integrating thermoelectric and piezoelectric conversion. Journal of Materials Chemistry A, 2019, 7, 8258-8267.	10.3	68
17	Poly(vinylidene fluoride)-based nanocomposite employing oriented Bi ₂ S ₃ nanorods with double-shell structure for high dielectric performance and loss suppression. Composites Science and Technology, 2019, 171, 118-126.	7.8	17
18	Poly(vinylidene fluoride)-Based composites modulated via multiscale two-dimensional fillers for high dielectric performances. Composites Science and Technology, 2018, 159, 162-170.	7.8	36

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19	Individual Adjustment of Electrical Conductivity and Thermopower Enabled by Multiple Interfaces in Polyaniline-Based Ternary Hybrid Nanomaterials for High Thermoelectric Performances. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701168.	3.7	28
20	An effective thermal treatment strategy for thermoelectric performance enhancement in PANI/Te nanorod hybrid film. <i>Materials Letters</i> , 2018, 229, 293-296.	2.6	15
21	One-dimensional oriented microcapacitors in ternary polymer nanocomposites: Toward high breakdown strength and suppressed loss. <i>Materials and Design</i> , 2018, 140, 114-122.	7.0	25
22	Enhanced dielectric performances of polypropylene films via polarity adjustment by maleic anhydride-grafted polypropylene. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45029.	2.6	16
23	Polymer/carbon nanotube composite materials for flexible thermoelectric power generator. <i>Composites Science and Technology</i> , 2017, 153, 71-83.	7.8	92
24	Polymer-based nanocomposites employing Bi ₂ S ₃ @SiO ₂ nanorods for high dielectric performance: Understanding the role of interfacial polarization in semiconductor-insulator core-shell nanostructure. <i>Composites Science and Technology</i> , 2017, 151, 25-33.	7.8	66
25	Core-shell structured BaTiO ₃ @Al ₂ O ₃ nanoparticles in polymer composites for dielectric loss suppression and breakdown strength enhancement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 93, 137-143.	7.6	136
26	Significantly Enhanced Dielectric Performances and High Thermal Conductivity in Poly(vinylidene fluoride)/Carbon Nanotube Composites. <i>Applied Materials & Interfaces</i> , 2017, 9, 44839-44846.	8.0	86
27	Synergistic photovoltaic-thermoelectric effect in a nanostructured CdTe/Bi ₂ Te ₃ heterojunction for hybrid energy harvesting. <i>RSC Advances</i> , 2016, 6, 114046-114051.	3.6	18
28	Bi deficiency-tuned functionality in multiferroic Bi _{1-x} Fe _{0.95} Mn _{0.05} O ₃ films. <i>Scientific Reports</i> , 2016, 6, 19385.	3.3	9
29	Semiconductor to metallic behavior transition in multi-wall carbon nanotubes/polyaniline composites with improved thermoelectric properties. <i>Materials Letters</i> , 2016, 164, 132-135.	2.6	19
30	Enhanced adhesion and conductivity of Cu electrode on AlN substrate for thin film thermoelectric device. <i>Functional Materials Letters</i> , 2015, 08, 1550032.	1.2	6
31	Uniform distribution of low content BaTiO ₃ nanoparticles in poly(vinylidene fluoride) nanocomposite: toward high dielectric breakdown strength and energy storage density. <i>RSC Advances</i> , 2015, 5, 72090-72098.	3.6	62
32	Bi ₂ S ₃ /poly(vinylidene fluoride) composite with high dielectric constant and unusual low dielectric loss based on preferentially oriented fillers. <i>RSC Advances</i> , 2015, 5, 96258-96264.	3.6	13
33	Recycling of asbestos tailings used as reinforcing fillers in polypropylene based composites. <i>Journal of Hazardous Materials</i> , 2014, 270, 137-143.	12.4	24
34	Scalable solution assembly of nanosheets into high-performance flexible Bi _{0.5} Sb _{1.5} Te ₃ thin films for thermoelectric energy conversion. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	12
35	Time-Dependent Global Sensitivity Analysis for Long-Term Degeneracy Model Using Polynomial Chaos. <i>Advances in Mechanical Engineering</i> , 2014, 6, 719825.	1.6	4
36	Facile synthesis of preferential Bi _{0.5} Sb _{1.5} Te _{3.0} nanolayered thin films with high power factor by the controllable layer thickness. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	12

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37	Improved non-intrusive polynomial chaos for reliability analysis under hybrid uncertainty. , 2013, , .		1
38	High dielectric properties in a three-phase polymer composite induced by a parallel structure. Materials Chemistry and Physics, 2013, 139, 865-870.	4.0	25
39	Ba and Ti co-doped BiFeO ₃ thin films via a modified chemical route with synchronous improvement in ferroelectric and magnetic behaviors. Journal of Applied Physics, 2013, 113, .	2.5	32
40	Highly ordered CoFe ₂ O ₄ nanowires array prepared via a modified sol-gel templated approach and its optical and magnetic properties. Journal of Alloys and Compounds, 2013, 552, 65-69.	5.5	56
41	Time-Dependent Reliability-Based Design Optimization Utilizing Nonintrusive Polynomial Chaos. Journal of Applied Mathematics, 2013, 2013, 1-16.	0.9	9
42	INDEPENDENT GROWTH OF LARGE SCALE CdS NANOROD ARRAYS ON DIFFERENT INTERFACES WITH EFFICIENT PHOTOELECTRICAL PERFORMANCE. Functional Materials Letters, 2013, 06, 1350005.	1.2	4
43	Excellent dielectric properties of anisotropic polymer composites filled with parallel aligned zinc flakes. Applied Physics Letters, 2012, 101, .	3.3	34
44	Unique hierarchical structure and high thermoelectric properties of antimony telluride pillar arrays. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	16
45	Storage life prediction method of optical fiber spool. , 2012, , .		0
46	Fabrication and growth mechanism of zinc blende and wurtzite CdTe nanowire arrays with different photoelectric properties. CrystEngComm, 2012, 14, 7922.	2.6	19
47	Fabrication of Highly (0001)-Textured Sb ₂ Te ₃ Film and Corresponding Thermoelectric Device with Enhanced Performance. Journal of Electronic Materials, 2012, 41, 3031-3038.	2.2	21
48	Enhanced Dielectric Properties of Ferroelectric Polymer Composites Induced by Metal-Semiconductor Zn-ZnO Core-Shell Structure. ACS Applied Materials & Interfaces, 2012, 4, 65-68.	8.0	146
49	Preferential growth of Bi ₂ Te ₃ films with a nanolayer structure: enhancement of thermoelectric properties induced by nanocrystal boundaries. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	30
50	Independent growth of CdTe nanorod arrays on different substrates with enhanced photoelectrical property. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	13
51	Preparation of Ag@SiO ₂ Dispersion in Different Solvents and Investigation of its Optical Properties. Journal of Dispersion Science and Technology, 2011, 32, 532-537.	2.4	10
52	Enhanced dielectric properties of low density polyethylene with bismuth sulfide used as inorganic filler. Materials Letters, 2010, 64, 528-530.	2.6	18
53	Controlled Fabrication of BiFeO ₃ Uniform Microcrystals and Their Magnetic and Photocatalytic Behaviors. Journal of Physical Chemistry C, 2010, 114, 2903-2908.	3.1	372
54	Effect of Mn doping on electric and magnetic properties of BiFeO ₃ thin films by chemical solution deposition. Journal of Applied Physics, 2009, 106, .	2.5	93

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55	Photocatalytic and magnetic behaviors observed in nanostructured BiFeO ₃ particles. Journal of Applied Physics, 2009, 105, .	2.5	81
56	Multiferroic behavior observed in highly orientated Mn-doped BaTiO ₃ thin films. Applied Physics Letters, 2009, 95, .	3.3	58
57	Synthesis and properties of multiferroic BiFeO ₃ ceramics. Journal of Electroceramics, 2008, 21, 690-693.	2.0	36
58	Site modification in BiFeO ₃ thin films studied by Raman spectroscopy and piezoelectric force microscopy. Journal of Applied Physics, 2008, 103, .	2.5	74
59	Thickness dependent size effect of BiFeO ₃ films grown on LaNiO ₃ -buffered Si substrates. Journal of Applied Physics, 2008, 104, .	2.5	58
60	Effect of Tb doping on electric and magnetic behavior of BiFeO ₃ thin films. Journal of Applied Physics, 2008, 103, .	2.5	100
61	Preparation of Mn-doped BaTiO ₃ nanoparticles and their magnetic properties. Journal of Applied Physics, 2008, 104, .	2.5	45
62	Structural and Ferroic Properties of Zr-doped BiFeO ₃ Thin Films. Ferroelectrics, 2007, 357, 172-178.	0.6	32