

Yao Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4239127/publications.pdf>

Version: 2024-02-01

62
papers

2,784
citations

186265

28
h-index

175258

52
g-index

64
all docs

64
docs citations

64
times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Fabrication of BiFeO ₃ Uniform Microcrystals and Their Magnetic and Photocatalytic Behaviors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2903-2908.	3.1	372
2	A review of biomass materials for advanced lithium-sulfur batteries. <i>Chemical Science</i> , 2019, 10, 7484-7495.	7.4	180
3	Enhanced Dielectric Properties of Ferroelectric Polymer Composites Induced by Metal-Semiconductor Zn-ZnO Core-Shell Structure. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 65-68.	8.0	146
4	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
5	Effect of Tb doping on electric and magnetic behavior of BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	100
6	Flexible 3D Architected Piezo/Thermoelectric Bimodal Tactile Sensor Array for e-Skin Application. <i>Advanced Energy Materials</i> , 2020, 10, 2001945.	19.5	96
7	Effect of Mn doping on electric and magnetic properties of BiFeO ₃ thin films by chemical solution deposition. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	93
8	Polymer/carbon nanotube composite materials for flexible thermoelectric power generator. <i>Composites Science and Technology</i> , 2017, 153, 71-83.	7.8	92
9	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
10	Photocatalytic and magnetic behaviors observed in nanostructured BiFeO ₃ particles. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	81
11	Site modification in BiFeO ₃ thin films studied by Raman spectroscopy and piezoelectric force microscopy. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	74
12	A flexible active dual-parameter sensor for sensitive temperature and physiological signal monitoring via integrating thermoelectric and piezoelectric conversion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8258-8267.	10.3	68
13	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
14	Recyclable, Healable, and Stretchable High-Power Thermoelectric Generator. <i>Advanced Energy Materials</i> , 2021, 11, 2100920.	19.5	65
15	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
16	Thickness dependent size effect of BiFeO ₃ films grown on LaNiO ₃ -buffered Si substrates. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	58
17	Multiferroic behavior observed in highly orientated Mn-doped BaTiO ₃ thin films. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	58
18	Highly ordered CoFe ₂ O ₄ nanowires array prepared via a modified sol-gel templated approach and its optical and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2013, 552, 65-69.	5.5	56

#	ARTICLE	IF	CITATIONS
19	3D geometrically structured PANI/CNT-decorated polydimethylsiloxane active pressure and temperature dual-parameter sensors for man-machine interaction applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15167-15176.	10.3	55
20	Preparation of Mn-doped BaTiO ₃ nanoparticles and their magnetic properties. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	45
21	Controllable electrical, magnetoelectric and optical properties of BiFeO ₃ via domain engineering. <i>Progress in Materials Science</i> , 2022, 127, 100943.	32.8	40
22	Synthesis and properties of multiferroic BiFeO ₃ ceramics. <i>Journal of Electroceramics</i> , 2008, 21, 690-693.	2.0	36
23	Poly(vinylidene fluoride)-Based composites modulated via multiscale two-dimensional fillers for high dielectric performances. <i>Composites Science and Technology</i> , 2018, 159, 162-170.	7.8	36
24	Excellent dielectric properties of anisotropic polymer composites filled with parallel aligned zinc flakes. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	34
25	Structural and Ferroic Properties of Zr-doped BiFeO ₃ Thin Films. <i>Ferroelectrics</i> , 2007, 357, 172-178.	0.6	32
26	Ba and Ti co-doped BiFeO ₃ thin films via a modified chemical route with synchronous improvement in ferroelectric and magnetic behaviors. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	32
27	Preferential growth of Bi ₂ Te ₃ films with a nanolayer structure: enhancement of thermoelectric properties induced by nanocrystal boundaries. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	30
28	Multiple Interfacial Modifications in Poly(vinylidene fluoride)/Barium Titanate Nanocomposites via Double-Shell Architecture for Significantly Enhanced Energy Storage Density. <i>ACS Applied Energy Materials</i> , 2019, 2, 5945-5953.	5.1	29
29	Flexible thermopower generation over broad temperature range by PANI/nanorod hybrid-based p-n couples. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1718-1724.	10.3	29
30	Design on polarization distribution in all-organic polymer hybrids for high density energy storage. <i>Chemical Engineering Journal</i> , 2020, 394, 125052.	12.7	29
31	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
32	High-performance Stretchable Organic Thermoelectric Generator via Rational Thermal Interface Design for Wearable Electronics. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	27
33	High dielectric properties in a three-phase polymer composite induced by a parallel structure. <i>Materials Chemistry and Physics</i> , 2013, 139, 865-870.	4.0	25
34	Double enhanced energy storage density via polarization gradient design in ferroelectric poly(vinylidene fluoride)-based nanocomposites. <i>Chemical Engineering Journal</i> , 2021, 411, 128585.	12.7	25
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Significantly enhanced thermoelectric performance in SWCNT films via carrier tuning for high power generation. Carbon, 2020, 158, 802-807.	10.3	22
38	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
39	Fabrication and growth mechanism of zinc blende and wurtzite CdTe nanowire arrays with different photoelectric properties. CrystEngComm, 2012, 14, 7922.	2.6	19
40	Semiconductor to metallic behavior transition in multi-wall carbon nanotubes/polyaniline composites with improved thermoelectric properties. Materials Letters, 2016, 164, 132-135.	2.6	19
41	Enhanced dielectric properties of low density polyethylene with bismuth sulfide used as inorganic filler. Materials Letters, 2010, 64, 528-530.	2.6	18
42	Synergistic photovoltaic-thermoelectric effect in a nanostructured CdTe/Bi ₂ Te ₃ heterojunction for hybrid energy harvesting. RSC Advances, 2016, 6, 114046-114051.	3.6	18
43	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
44	Unique hierarchical structure and high thermoelectric properties of antimony telluride pillar arrays. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	16
45	Enhanced dielectric performances of polypropylene films via polarity adjustment by maleic anhydride-grafted polypropylene. Journal of Applied Polymer Science, 2017, 134, 45029.	2.6	16
46	An effective thermal treatment strategy for thermoelectric performance enhancement in PANI/Te nanorod hybrid film. Materials Letters, 2018, 229, 293-296.	2.6	15
47	Independent growth of CdTe nanorod arrays on different substrates with enhanced photoelectrical property. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	13
48	Bi ₂ S ₃ /poly(vinylidene fluoride) composite with high dielectric constant and unusual low dielectric loss based on preferentially oriented fillers. RSC Advances, 2015, 5, 96258-96264.	3.6	13
49	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. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	12
50	Scalable solution assembly of nanosheets into high-performance flexible Bi _{0.5} Sb _{1.5} Te ₃ thin films for thermoelectric energy conversion. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	12
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	Time-Dependent Reliability-Based Design Optimization Utilizing Nonintrusive Polynomial Chaos. Journal of Applied Mathematics, 2013, 2013, 1-16.	0.9	9
53	Bi deficiency-tuned functionality in multiferroic Bi _{1-x} Fe _{0.95} Mn _{0.05} O ₃ films. Scientific Reports, 2016, 6, 19385.	3.3	9
54	Enhanced adhesion and conductivity of Cu electrode on AlN substrate for thin film thermoelectric device. Functional Materials Letters, 2015, 08, 1550032.	1.2	6

#	ARTICLE	IF	CITATIONS
55	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
56	Tunable coffee-ring formation of halloysite nanotubes by evaporating sessile drops. Soft Matter, 2021, 17, 9514-9527.	2.7	6
57	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
58	INDEPENDENT GROWTH OF LARGE SCALE CdS NANOROD ARRAYS ON DIFFERENT INTERFACES WITH EFFICIENT PHOTOELECTRICAL PERFORMANCE. Functional Materials Letters, 2013, 06, 1350005.	1.2	4
59	Time-Dependent Global Sensitivity Analysis for Long-Term Degeneracy Model Using Polynomial Chaos. Advances in Mechanical Engineering, 2014, 6, 719825.	1.6	4
60	Improved non-intrusive polynomial chaos for reliability analysis under hybrid uncertainty. , 2013, , .		1
61	Experimental and Numerical Investigation on C/SiC Composite Z-Pinned/Bonded Hybrid Single-Lap Joints. Materials, 2021, 14, 1130.	2.9	1
62	Storage life prediction method of optical fiber spool. , 2012, , .		0