

Yanan Hao

List of Publications by Year in descending order

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53
papers

2,311
citations

257450

24
h-index

206112

48
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all docs

56
docs citations

56
times ranked

2881
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(methyl methacrylate)-based ferroelectric/dielectric laminated films with enhanced energy storage performances. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1137-1144.	21.1	10
2	Flexible and Stretchable Electrodes for Capacitive Sensors. <i>Journal of Electronic Materials</i> , 2022, 51, 2956-2963.	2.2	2
3	Crystallization investigation of BaTiO ₃ coating layer on Ni nanoparticles. <i>Micro and Nano Letters</i> , 2021, 16, 299-303.	1.3	0
4	Ferroelectric state and polarization switching behaviour of ultrafine BaTiO ₃ nanoparticles with large-scale size uniformity. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5267-5276.	5.5	9
5	Metamaterial mechanical antenna for very low frequency wireless communication. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 761-767.	21.1	74
6	Optimizing coupling agent for the enhanced energy storage density of BaTiO ₃ /P(VDF- α -HFP)&PMMA nanocomposite films. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	3
7	Space charge regulated high-k polymer nanocomposite with a novel sandwich structure. <i>Composites Part B: Engineering</i> , 2020, 203, 108461.	12.0	7
8	Coating of Crystalline BaTiO ₃ Layer on Ni Nanoparticles for Multilayer Ceramic Capacitor Electrode. <i>Advanced Engineering Materials</i> , 2020, 22, 1901483.	3.5	2
9	Gradient design of ultrasmall dielectric nanofillers for PVDF-based high energy-density composite capacitors. <i>Materials and Design</i> , 2020, 189, 108523.	7.0	51
10	Enhanced dielectric properties and energy storage density of PVDF nanocomposites by co-loading of BaTiO ₃ and CoFe ₂ O ₄ nanoparticles. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 58-65.	21.1	94
11	A Dual-Band Microwave Filter Design for Modern Wireless Communication Systems. <i>IEEE Access</i> , 2019, 7, 98786-98791.	4.2	15
12	Dielectric Properties of Two-Dimensional Bi ₂ Se ₃ Hexagonal Nanoplates Modified PVDF Nanocomposites. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-8.	1.7	5
13	Split-ring resonator-based compact microstrip antenna. <i>Modern Physics Letters B</i> , 2019, 33, 1950043.	1.9	1
14	Wideband slot-coupled dielectric resonator-based filter. <i>Journal of Alloys and Compounds</i> , 2019, 785, 1264-1269.	5.5	48
15	Enhanced photocatalytic H ₂ evolution by plasmonic and piezotronic effects based on periodic Al/BaTiO ₃ heterostructures. <i>Nano Energy</i> , 2019, 62, 513-520.	16.0	127
16	Photoelectrochemical CO ₂ reduction by Cu ₂ O/Cu ₂ S hybrid catalyst immobilized in TiO ₂ nanocavity arrays. <i>Journal of Materials Science</i> , 2019, 54, 10379-10388.	3.7	16
17	High-Sensitivity Dielectric Resonator-Based Waveguide Sensor for Crack Detection on Metallic Surfaces. <i>IEEE Sensors Journal</i> , 2019, 19, 5470-5474.	4.7	25
18	Generation of Orbital Angular Momentum Beam With Circular Polarization Ceramic Antenna Array. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	20

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19	Effects of organic solvents on morphologies, photoluminescence, and photocatalytic properties of ZnO nanostructures. <i>Micro and Nano Letters</i> , 2019, 14, 1146-1150.	1.3	5
20	Large-scale uniform fabrication and morphology control of ultrafine perovskite nanocrystals. <i>Micro and Nano Letters</i> , 2019, 14, 289-292.	1.3	0
21	Phase and Defect Engineering of MoS ₂ Stabilized in Periodic TiO ₂ Nanoporous Film for Enhanced Solar Water Splitting. <i>Advanced Optical Materials</i> , 2019, 7, 1801403.	7.3	25
22	Sodium metal anodes for room-temperature sodium-ion batteries: Applications, challenges and solutions. <i>Energy Storage Materials</i> , 2019, 16, 6-23.	18.0	243
23	A Small-Divergence-Angle Orbital Angular Momentum Metasurface Antenna. <i>Research</i> , 2019, 2019, 9686213.	5.7	29
24	Orientational Ag nanoparticle alignment from a facile "TEG-sol" method. <i>Micro and Nano Letters</i> , 2018, 13, 69-71.	1.3	0
25	Thermally tunable dielectric resonator filter. <i>Journal of Alloys and Compounds</i> , 2018, 749, 363-368.	5.5	4
26	Switchable Complementary Diamond-Ring-Shaped Metasurface for Radome Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 2494-2497.	4.0	30
27	Enhanced Photocatalytic Activity by the Combined Influence of Ferroelectric Domain and Au Nanoparticles for BaTiO ₃ Fibers. <i>Nano</i> , 2018, 13, 1850149.	1.0	7
28	Zn-Air Batteries: N, P-doped CoS ₂ Embedded in TiO ₂ Nanoporous Films for Zn-Air Batteries (<i>Adv. Funct. Mater.</i>)	14.9	0
29	Outstanding Photoluminescence in Pr ³⁺ -Doped Perovskite Ceramics. <i>Micromachines</i> , 2018, 9, 419.	2.9	4
30	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27106-27115.	8.0	40
31	Ultrafine core-shell BaTiO ₃ @SiO ₂ structures for nanocomposite capacitors with high energy density. <i>Nano Energy</i> , 2018, 51, 513-523.	16.0	332
32	N, P-doped CoS ₂ Embedded in TiO ₂ Nanoporous Films for Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804540.	14.9	93
33	Phase Structure and Photoluminescence of Pr ³⁺ Doped (K,Na)NbO ₃ -Based Multifunctional Ceramics. <i>Journal of Electronic Materials</i> , 2018, 47, 6551-6556.	2.2	5
34	Enhanced photoluminescence properties of SrTiO ₃ :Pr ³⁺ nanocrystals by the "TEG-sol" method. <i>APL Materials</i> , 2018, 6, 086102.	5.1	6
35	Highly dispersive Ba _{0.6} Sr _{0.4} TiO ₃ nanoparticles modified P(VDF-TrFE)/PMMA composite films with improved energy storage density and efficiency. <i>IET Nanodielectrics</i> , 2018, 1, 60-66.	4.1	37
36	Hollow-sphere SrTiO ₃ nanocube assemblies with enhanced room-temperature photoluminescence. <i>Materials and Design</i> , 2018, 155, 257-263.	7.0	13

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37	Frequency tunable slot-coupled dielectric resonators antenna. Journal of Alloys and Compounds, 2017, 702, 664-668.	5.5	10
38	Thermally tunable slot-coupled dielectric resonator antenna. AIP Advances, 2017, 7, .	1.3	3
39	Particle size effect of BaTiO ₃ nanofillers on the energy storage performance of polymer nanocomposites. Nanoscale, 2017, 9, 16386-16395.	5.6	93
40	Wideband terahertz absorber based on Mie resonance metasurface. AIP Advances, 2017, 7, .	1.3	7
41	High-efficiency polarization conversion phase gradient metasurface for wideband anomalous reflection. Journal of Applied Physics, 2017, 122, .	2.5	26
42	Interface structure, precursor rheology and dielectric properties of BaTiO ₃ /PVDF hfp nanocomposite films prepared from colloidal perovskite nanoparticles. RSC Advances, 2017, 7, 32886-32892.	3.6	32
43	Significantly enhanced energy storage performance promoted by ultimate sized ferroelectric BaTiO ₃ fillers in nanocomposite films. Nano Energy, 2017, 31, 49-56.	16.0	312
44	A one-step way to novel carbon-niobium nitride nanoparticles for efficient oxygen reduction. Journal of the American Ceramic Society, 2017, 100, 638-646.	3.8	5
45	Inverted electro-mechanical behaviour induced by the irreversible domain configuration transformation in (K,Na)NbO ₃ -based ceramics. Scientific Reports, 2016, 6, 22053.	3.3	30
46	Core-satellite BaTiO ₃ @SrTiO ₃ assemblies for a local compositionally graded relaxor ferroelectric capacitor with enhanced energy storage density and high energy efficiency. Journal of Materials Chemistry C, 2015, 3, 750-758.	5.5	138
47	Preparation and characterization of highly crystallized BaTiO ₃ layer on Ni nanoparticles. Japanese Journal of Applied Physics, 2015, 54, 015501.	1.5	7
48	Flexible BaTiO ₃ /PVDF gradated multilayer nanocomposite film with enhanced dielectric strength and high energy density. Journal of Materials Chemistry C, 2015, 3, 9740-9747.	5.5	134
49	Rapid Formation of Nanocrystalline BaTiO ₃ and Its Highly Stable Sol. Journal of the American Ceramic Society, 2014, 97, 3434-3441.	3.8	30
50	Highly dispersed SrTiO ₃ nanocubes from a rapid sol-precipitation method. Nanoscale, 2014, 6, 7940.	5.6	57
51	Sol-gel based synthesis of ultrafine tetragonal BaTiO ₃ . Journal of Sol-Gel Science and Technology, 2013, 67, 182-187.	2.4	7
52	A Novel Approach to the Preparation of a Highly Crystallized BaTiO ₃ Layer on Ni Nanoparticles. Journal of the American Ceramic Society, 2013, 96, 2696-2698.	3.8	28
53	Investigation on the synthesis procedure of ultrafine monodispersed BaTiO ₃ powders by solvothermal method. Journal of the Ceramic Society of Japan, 2013, 121, 506-511.	1.1	4