

Yanan Hao

List of Publications by Year in descending order

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53
papers

2,311
citations

257450

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docs citations

56
times ranked

2881
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafine core-shell BaTiO ₃ @SiO ₂ structures for nanocomposite capacitors with high energy density. Nano Energy, 2018, 51, 513-523.	16.0	332
2	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
3	Sodium metal anodes for room-temperature sodium-ion batteries: Applications, challenges and solutions. Energy Storage Materials, 2019, 16, 6-23.	18.0	243
4	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
5	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
6	Enhanced photocatalytic H ₂ evolution by plasmonic and piezotronic effects based on periodic Al/BaTiO ₃ heterostructures. Nano Energy, 2019, 62, 513-520.	16.0	127
7	Enhanced dielectric properties and energy storage density of PVDF nanocomposites by co-loading of BaTiO ₃ and CoFe ₂ O ₄ nanoparticles. Advanced Composites and Hybrid Materials, 2020, 3, 58-65.	21.1	94
8	Particle size effect of BaTiO ₃ nanofillers on the energy storage performance of polymer nanocomposites. Nanoscale, 2017, 9, 16386-16395.	5.6	93
9	N, P-doped CoS ₂ Embedded in TiO ₂ Nanoporous Films for Zn-Air Batteries. Advanced Functional Materials, 2018, 28, 1804540.	14.9	93
10	Metamaterial mechanical antenna for very low frequency wireless communication. Advanced Composites and Hybrid Materials, 2021, 4, 761-767.	21.1	74
11	Highly dispersed SrTiO ₃ nanocubes from a rapid sol-precipitation method. Nanoscale, 2014, 6, 7940.	5.6	57
12	Gradient design of ultrasmall dielectric nanofillers for PVDF-based high energy-density composite capacitors. Materials and Design, 2020, 189, 108523.	7.0	51
13	Wideband slot-coupled dielectric resonator-based filter. Journal of Alloys and Compounds, 2019, 785, 1264-1269.	5.5	48
14	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. ACS Applied Materials & Interfaces, 2018, 10, 27106-27115.	8.0	40
15	Highly dispersive Ba _{0.6} Sr _{0.4} TiO ₃ nanoparticles modified P(VDF-co-HFP)/PMMA composite films with improved energy storage density and efficiency. IET Nanodielectrics, 2018, 1, 60-66.	4.1	37
16	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
17	Rapid Formation of Nanocrystalline BaTiO ₃ and Its Highly Stable Sol. Journal of the American Ceramic Society, 2014, 97, 3434-3441.	3.8	30
18	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

#	ARTICLE	IF	CITATIONS
19	Switchable Complementary Diamond-Ring-Shaped Metasurface for Radome Application. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2494-2497.	4.0	30
20	A Small-Divergence-Angle Orbital Angular Momentum Metasurface Antenna. Research, 2019, 2019, 9686213.	5.7	29
21	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
22	High-efficiency polarization conversion phase gradient metasurface for wideband anomalous reflection. Journal of Applied Physics, 2017, 122, .	2.5	26
23	High-Sensitivity Dielectric Resonator-Based Waveguide Sensor for Crack Detection on Metallic Surfaces. IEEE Sensors Journal, 2019, 19, 5470-5474.	4.7	25
24	Phase and Defect Engineering of MoS_2 Stabilized in Periodic TiO_2 Nanoporous Film for Enhanced Solar Water Splitting. Advanced Optical Materials, 2019, 7, 1801403.	7.3	25
25	Generation of Orbital Angular Momentum Beam With Circular Polarization Ceramic Antenna Array. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	20
26	Photoelectrochemical CO_2 reduction by $\text{Cu}_2\text{O}/\text{Cu}_2\text{S}$ hybrid catalyst immobilized in TiO_2 nanocavity arrays. Journal of Materials Science, 2019, 54, 10379-10388.	3.7	16
27	A Dual-Band Microwave Filter Design for Modern Wireless Communication Systems. IEEE Access, 2019, 7, 98786-98791.	4.2	15
28	Hollow-sphere SrTiO_3 nanocube assemblies with enhanced room-temperature photoluminescence. Materials and Design, 2018, 155, 257-263.	7.0	13
29	Frequency tunable slot-coupled dielectric resonators antenna. Journal of Alloys and Compounds, 2017, 702, 664-668.	5.5	10
30	Poly(methyl methacrylate)-based ferroelectric/dielectric laminated films with enhanced energy storage performances. Advanced Composites and Hybrid Materials, 2022, 5, 1137-1144.	21.1	10
31	Ferroelectric state and polarization switching behaviour of ultrafine BaTiO_3 nanoparticles with large-scale size uniformity. Journal of Materials Chemistry C, 2021, 9, 5267-5276.	5.5	9
32	Sol-gel based synthesis of ultrafine tetragonal BaTiO_3 . Journal of Sol-Gel Science and Technology, 2013, 67, 182-187.	2.4	7
33	Preparation and characterization of highly crystallized BaTiO_3 layer on Ni nanoparticles. Japanese Journal of Applied Physics, 2015, 54, 015501.	1.5	7
34	Wideband terahertz absorber based on Mie resonance metasurface. AIP Advances, 2017, 7, .	1.3	7
35	Enhanced Photocatalytic Activity by the Combined Influence of Ferroelectric Domain and Au Nanoparticles for BaTiO_3 Fibers. Nano, 2018, 13, 1850149.	1.0	7
36	Space charge regulated high-k polymer nanocomposite with a novel sandwich structure. Composites Part B: Engineering, 2020, 203, 108461.	12.0	7

#	ARTICLE	IF	CITATIONS
37	Enhanced photoluminescence properties of SrTiO ₃ :Pr ³⁺ nanocrystals by the "TEG-sol" method. APL Materials, 2018, 6, 086102.	5.1	6
38	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
39	Phase Structure and Photoluminescence of Pr ³⁺ Doped (K,Na)NbO ₃ -Based Multifunctional Ceramics. Journal of Electronic Materials, 2018, 47, 6551-6556.	2.2	5
40	Dielectric Properties of Two-Dimensional Bi ₂ Se ₃ Hexagonal Nanoplates Modified PVDF Nanocomposites. Advances in Polymer Technology, 2019, 2019, 1-8.	1.7	5
41	Effects of organic solvents on morphologies, photoluminescence, and photocatalytic properties of ZnO nanostructures. Micro and Nano Letters, 2019, 14, 1146-1150.	1.3	5
42	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
43	Thermally tunable dielectric resonator filter. Journal of Alloys and Compounds, 2018, 749, 363-368.	5.5	4
44	Outstanding Photoluminescence in Pr ³⁺ -Doped Perovskite Ceramics. Micromachines, 2018, 9, 419.	2.9	4
45	Thermally tunable slot-coupled dielectric resonator antenna. AIP Advances, 2017, 7, .	1.3	3
46	Optimizing coupling agent for the enhanced energy storage density of BaTiO ₃ /P(VDF/PMMA) nanocomposite films. Journal of Polymer Research, 2021, 28, 1.	2.4	3
47	Coating of Crystalline BaTiO ₃ Layer on Ni Nanoparticles for Multilayer Ceramic Capacitor Electrode. Advanced Engineering Materials, 2020, 22, 1901483.	3.5	2
48	Flexible and Stretchable Electrodes for Capacitive Sensors. Journal of Electronic Materials, 2022, 51, 2956-2963.	2.2	2
49	Split-ring resonator-based compact microstrip antenna. Modern Physics Letters B, 2019, 33, 1950043.	1.9	1
50	Orientational Ag nanoparticle alignment from a facile "TEG-sol" method. Micro and Nano Letters, 2018, 13, 69-71.	1.3	0
51	Zn-Air Batteries: N, P-doped CoS ₂ Embedded in TiO ₂ Nanoporous Films for Zn-Air Batteries (Adv. Funct. Mater.)	10.784314	0
52	Large-scale uniform fabrication and morphology control of ultrafine perovskite nanocrystals. Micro and Nano Letters, 2019, 14, 289-292.	1.3	0
53	Crystallization investigation of BaTiO ₃ coating layer on Ni nanoparticles. Micro and Nano Letters, 2021, 16, 299-303.	1.3	0