Minmin Zhu

List of Publications by Year
in descending order

45 papers	1,021 citations	471061 17 h-index	433756 31 g-index
45 all docs	45 docs citations	45 times ranked	1788 citing authors

#	Article	IF	Citations
1	NiO films consisting of vertically aligned cone-shaped NiO rods. Applied Physics Letters, 2006, 88, 033101.	1.5	83
2	Melting and optical properties of ZnO nanorods. Applied Physics Letters, 2006, 88, 061913.	1.5	81
3	Low-Temperature in Situ Growth of Graphene on Metallic Substrates and Its Application in Anticorrosion. ACS Applied Materials & Interfaces, 2016, 8, 502-510.	4.0	78
4	Polymer-Enriched 3D Graphene Foams for Biomedical Applications. ACS Applied Materials & Interfaces, 2015, 7, 8275-8283.	4.0	73
5	Intense photoluminescence from amorphous tantalum oxide films. Applied Physics Letters, 2006, 89, 021915.	1.5	72
6	Trimethylamine Borane: A New Single-Source Precursor for Monolayer h-BN Single Crystals and h-BCN Thin Films. Chemistry of Materials, 2016, 28, 2180-2190.	3.2	62
7	Synthesis and photoluminescence of aligned ZnO nanorods by thermal decomposition of zinc acetate at a substrate temperature of â^¼250â€‰Â°C. Journal Physics D: Applied Physics, 2005, 38, 3934-3937.	1.3	41
8	Flexible Ultra-Wideband Terahertz Absorber Based on Vertically Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 43671-43680.	4.0	39
9	Elastic Properties of 2D Ultrathin Tungsten Nitride Crystals Grown by Chemical Vapor Deposition. Advanced Functional Materials, 2019, 29, 1902663.	7.8	37
10	Piezoelectric polymer nanofibers for pressure sensors and their applications in human activity monitoring. RSC Advances, 2020, 10, 21887-21894.	1.7	32
11	Optical and electro-optic anisotropy of epitaxial PZT thin films. Applied Physics Letters, 2015, 107, .	1.5	30
12	Multifunctional and highly compressive cross-linker-free sponge based on reduced graphene oxide and boron nitride nanosheets. Chemical Engineering Journal, 2017, 328, 825-833.	6.6	30
13	A wafer-scale graphene and ferroelectric multilayer for flexible and fast-switched modulation applications. Nanoscale, 2015, 7, 14730-14737.	2.8	26
14	Low temperature growth of graphene on Cuâ€“Ni alloy nanofibers for stable, flexible electrodes. Nanoscale, 2014, 6, 5110.	2.8	23
15	Influence of crystal phase and transparent substrates on electro-optic properties of lead zirconate titanate films. Journal of Applied Physics, 2010, 108, .	1.1	21
16	Concentric and Spiral Few-Layer Graphene: Growth Driven by Interfacial Nucleation vs Screw Dislocation. Chemistry of Materials, 2018, 30, 6858-6866.	3.2	21
17	Wafer-scale vertically aligned carbon nanotubes for broadband terahertz wave absorption. Carbon, 2019, 154, 503-509.	5.4	20
18	Growth mode of sol-gel derived PLT seeding layers on glass substrates and its effect on templating the oriented growth of PLZT thin films. Journal of Applied Physics, 2009, 105, .	1.1	16

#	Article	IF	Citations
19	Perovskite crystallization kinetics and dielectric properties of the PMN-PT films prepared by polymer-modified sol-gel processing. Journal of Materials Research, 2009, 24, 1576-1584.	1.2	16
20	A flexible and ultra-broadband terahertz wave absorber based on grapheneâ€“vertically aligned carbon nanotube hybrids. Journal of Materials Chemistry C, 2020, 8, 7244-7252.	2.7	16
21	Optical and Electric Properties of Aligned-Growing Ta₂O₅ Nanorods. Materials Transactions, 2008, 49, 2288-2291.	0.4	15
22	The Electrochemical Response of Single Crystalline Copper Nanowires to Atmospheric Air and Aqueous Solution. Small, 2017, 13, 1603411.	5.2	15
23	Smoothening of wrinkles in CVD-grown hexagonal boron nitride films. Nanoscale, 2018, 10, 16243-16251.	2.8	15
24	Composition-controlled synthesis and tunable optical properties of ternary boron carbonitride nanotubes. RSC Advances, 2017, 7, 12511-12517.	1.7	14
25	Structural insight into the optical and electro-optic properties of lead zirconate titanate for high-performance photonic devices. Ceramics International, 2019, 45, 22324-22330.	2.3	13
26	Ferroelectric BiFeO3 thin-film optical modulators. Applied Physics Letters, 2016, 108, .	1.5	12
27	Flexible thermal rectifier based on macroscopic PDMS@graphite composite film with asymmetric cone-shape interfaces. Carbon, 2018, 126, 464-471.	5.4	11
28	Alkyl ethoxylate assisted liquid phase exfoliation of BN nanosheet and its application as interphase for oxide/oxide composites. Ceramics International, 2018, 44, 21461-21469.	2.3	11
29	Optical and electro-optic properties of micrometric thick lead zirconate titanate films on (Pb0.86,La0.14)TiO3/glass. Journal of Applied Physics, 2009, 106, 023113.	1.1	9
30	Strong electro-optically active Ni-substituted Pb(Zr_{0.35}Ti_{0.65})O₃ thin films: toward integrated active and durable photonic devices. Journal of Materials Chemistry C, 2018, 6, 12919-12927.	2.7	9
31	Crystallization of Pb((Zn,Mg)_{1/3}Nb_{2/3})O₃â€“PbTiO₃ Thin Films Via Immobilization of Pb²⁺ Ions During Solâ€“Gel Process. Journal of the American Ceramic Society, 2010, 93, 4036-4040.	1.9	8
32	Defect enhanced optic and electro-optic properties of lead zirconate titanate thin films. AIP Advances, 2011, 1, .	0.6	8
33	Tuning electro-optic susceptibity via strain engineering in artificial PZT multilayer films for high-performance broadband modulator. Applied Surface Science, 2017, 425, 1059-1065.	3.1	8
34	Gate voltage and temperature dependent Ti-graphene junction resistance toward straightforward p-n junction formation. Journal of Applied Physics, 2018, 124, .	1.1	8
35	Direct crystallization of perovskite phase in PMNâ€“PT thin films prepared by polyvinylpyrrolidone modified solâ€“gel processing and their properties. Journal of Solid State Chemistry, 2009, 182, 1780-1785.	1.4	7
36	Modeling of multilayer electrode performance in transverse electro-optic modulators. AIP Advances, 2011, 1, .	0.6	6

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37	A general strategy towards controllable replication of butterfly wings for robust light photocatalysis. Journal of Materials Science and Technology, 2022, 105, 286-292.	5.6	6
38	PVPâ€Mediated Crystallization of Perovskite Phase in the PMNâ€“PT Thin Films Prepared by Solâ€“Gel Processing. Journal of the American Ceramic Society, 2010, 93, 686-691.	1.9	5
39	Grapheneâ€“Metal Nanoparticles for Enhancing Thermoelectric Power Factor. IEEE Nanotechnology Magazine, 2019, 18, 1114-1118.	1.1	5
40	Nitrogen-mediated aligned growth of hexagonal BN films for reliable high-performance InSe transistors. Journal of Materials Chemistry C, 2020, 8, 4421-4431.	2.7	5
41	A Flexible and Ultraâ€Wideband Terahertz Wave Absorber Based on Pyramidâ€Shaped Carbon Nanotube Array via Femtosecondâ€Laser Microprocessing and Twoâ€Step Transfer Technique. Advanced Materials Interfaces, 2022, 9, .	1.9	5
42	Dielectric dispersion and superior thermal characteristics in isotope-enriched hexagonal boron nitride thin films: evaluation as thermally self-dissipating dielectrics for GaN transistors. Journal of Materials Chemistry C, 2020, 8, 9558-9568.	2.7	4
43	Hybrid graphene-NiW nanofiber transparent electrodes for all-nanofiber-based pressure sensor. Journal of Materials Science, 2022, 57, 2627-2635.	1.7	3
44	Effects of precursorsâ€™ purity on graphene quality: Synthesis and thermoelectric effect. AIP Advances, 2020, 10, .	0.6	2
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