

Guifang Han

List of Publications by Year in descending order

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papers

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citations

331538

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47
g-index

57
all docs

57
docs citations

57
times ranked

4442
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot carrier cooling mechanisms in halide perovskites. Nature Communications, 2017, 8, 1300.	5.8	347
2	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. Journal of Physical Chemistry Letters, 2016, 7, 5105-5113.	2.1	346
3	Discerning the Surface and Bulk Recombination Kinetics of Organic-Inorganic Halide Perovskite Single Crystals. Advanced Energy Materials, 2016, 6, 1600551.	10.2	271
4	Over 20% Efficient CIGS-Perovskite Tandem Solar Cells. ACS Energy Letters, 2017, 2, 807-812.	8.8	135
5	Efficient and Ambient-Air-Stable Solar Cell with Highly Oriented 2D@3D Perovskites. Advanced Functional Materials, 2018, 28, 1801654.	7.8	98
6	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. Nano Energy, 2020, 72, 104657.	8.2	93
7	Towards high efficiency thin film solar cells. Progress in Materials Science, 2017, 87, 246-291.	16.0	85
8	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 21292-21297.	4.0	71
9	Additive Selection Strategy for High Performance Perovskite Photovoltaics. Journal of Physical Chemistry C, 2018, 122, 13884-13893.	1.5	71
10	Stress-controlled Pb(Zr _{0.52} Ti _{0.48})O ₃ thick films by thermal expansion mismatch between substrate and Pb(Zr _{0.52} Ti _{0.48})O ₃ film. Journal of Applied Physics, 2011, 110, .	1.1	70
11	2D black phosphorous nanosheets as a hole transporting material in perovskite solar cells. Journal of Power Sources, 2017, 371, 156-161.	4.0	52
12	Mechanical and electrical strain response of a piezoelectric auxetic PZT lattice structure. Smart Materials and Structures, 2016, 25, 015017.	1.8	40
13	Potassium Prussian blue-coated Li-rich cathode with enhanced lithium ion storage property. Nano Energy, 2020, 75, 104942.	8.2	40
14	Upshift of Phase Transition Temperature in Nanostructured PbTiO ₃ Thick Film for High Temperature Applications. ACS Applied Materials & Interfaces, 2014, 6, 11980-11987.	4.0	38
15	Effect of Film Thickness on the Piezoelectric Properties of Lead Zirconate Titanate Thick Films Fabricated by Aerosol Deposition. Journal of the American Ceramic Society, 2011, 94, 1509-1513.	1.9	36
16	Intrinsic and environmental stability issues of perovskite photovoltaics. Progress in Energy, 2020, 2, 022002.	4.6	33
17	LaNiO ₃ conducting particle dispersed NiMn ₂ O ₄ nanocomposite NTC thermistor thick films by aerosol deposition. Journal of Alloys and Compounds, 2012, 534, 70-73.	2.8	31
18	Self-Growth of Centimeter-Scale Single Crystals by Normal Sintering Process in Modified Potassium Sodium Niobate Ceramics. Scientific Reports, 2015, 5, 17656.	1.6	28

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19	Effect of Formamidine/Cesium Substitution and PbI_2 on the Long-Term Stability of Triple-Cation Perovskites. <i>ChemSusChem</i> , 2017, 10, 3804-3809.	3.6	28
20	Structural dependence of the piezoelectric properties of KNbO_3 nanowires synthesized by the hydrothermal method. <i>Acta Materialia</i> , 2013, 61, 3703-3708.	3.8	26
21	A graphene oxide coated sulfide-based solid electrolyte for dendrite-free lithium metal batteries. <i>Carbon</i> , 2021, 177, 52-59.	5.4	24
22	Enhancement of Multiferroic Properties in BiFeO_3 - $\text{Ba}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$: Film Fabricated by Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , 2011, 94, 355-358.	1.9	17
23	Effect of tetragonal perovskite phase addition on the electrical properties of KNN thick films fabricated by aerosol deposition. <i>Materials Letters</i> , 2011, 65, 2762-2764.	1.3	17
24	Experimental investigation on the effect of top electrode diameter in PZT thick films. <i>Materials Letters</i> , 2011, 65, 2193-2196.	1.3	16
25	Effect of electrode and substrate on the fatigue behavior of PZT thick films fabricated by aerosol deposition. <i>Ceramics International</i> , 2012, 38, S241-S244.	2.3	16
26	Nitrogen doped cuprous oxide as low cost hole-transporting material for perovskite solar cells. <i>Scripta Materialia</i> , 2018, 153, 104-108.	2.6	16
27	Effects of energetics with {001} facet-dominant anatase TiO_2 scaffold on electron transport in $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells. <i>Electrochimica Acta</i> , 2019, 300, 445-454.	2.6	16
28	High Piezoelectric Properties of KNN -Based Thick Films with Abnormal Grain Growth. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1489-1492.	1.9	15
29	Sintering behavior and dielectric properties of $\text{KCa}_2\text{Nb}_3\text{O}_{10}$ ceramics. <i>Journal of the European Ceramic Society</i> , 2013, 33, 907-911.	2.8	15
30	A novel sintering additive system for porous mullite-bonded SiC ceramics: High mechanical performance with controllable pore structure. <i>Ceramics International</i> , 2022, 48, 4105-4114.	2.3	14
31	Interlayer Engineering for Flexible Large-Area Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 777-784.	2.5	13
32	Magnetolectric composite thick films of $\text{PZT}/\text{PMnN}+\text{NiZnFe}_2\text{O}_4$ by aerosol-deposition. <i>Ceramics International</i> , 2012, 38, S431-S434.	2.3	12
33	Co and Fe Doping Effect on Negative Temperature Coefficient Characteristics of Nano-Grained NiMn_2O_4 Thick Films Fabricated by Aerosol-Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3422-3426.	0.9	12
34	Bistable Amphoteric Native Defect Model of Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3878-3885.	2.1	12
35	Cesium Oleate Passivation for Stable Perovskite Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27882-27889.	4.0	12
36	Effect of $\text{Ba}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$ content on multiferroic properties in BiFeO_3 ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 451-455.	1.7	10

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37	A simple method to control the pore structure and shape of freeze-cast porous SiC ceramics. <i>Ceramics International</i> , 2020, 46, 26078-26084.	2.3	10
38	Elastic modulus tailoring in CH ₃ NH ₃ PbI ₃ perovskite system by the introduction of two dimensionality using (5-AVA) ₂ PbI ₄ . <i>Solar Energy</i> , 2021, 224, 27-34.	2.9	10
39	Hardening behavior of Mn-modified KNN-BT thick films fabricated by aerosol deposition. <i>Materials Letters</i> , 2011, 65, 278-281.	1.3	9
40	Large area, high efficiency and stable perovskite solar cells enabled by fine control of intermediate phase. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110113.	3.0	9
41	Carrier cascade: Enabling high performance perovskite light-emitting diodes (PeLEDs). <i>Current Opinion in Electrochemistry</i> , 2018, 11, 91-97.	2.5	8
42	Toward Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonate Salt Surface Passivation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2716-2723.	2.5	8
43	Structural and piezoelectric properties of MnO ₂ -added 0.95(Na _{0.5} K _{0.5})NbO ₃ –0.05SrTiO ₃ ceramics. <i>Sensors and Actuators A: Physical</i> , 2013, 200, 47-50.	2.0	7
44	Reliability of Ferroelectric Multilayer PZT Thick Films Fabricated by Aerosol Deposition. <i>Ferroelectrics</i> , 2014, 470, 183-193.	0.3	6
45	Fabrication and characteristic of non-oxide fiber tow reinforced silicon nitride matrix composites by low temperature CVD process. <i>Ceramics International</i> , 2014, 40, 8435-8438.	2.3	6
46	Structured Magnetolectric Composites by Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , 2012, 95, 855-858.	1.9	5
47	In situ formation of mullite strengthened SiC porous ceramics via gelcasting with high strength and good alkali resistance. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 2083-2092.	1.1	5
48	Spontaneous In Situ Surface Alloying of Li-Zn Derived from a Novel Zn ²⁺ -Containing Solid Polymer Electrolyte for Steady Cycling of Li Metal Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4282-4292.	3.2	4
49	Composition Design Rule for High Piezoelectric Voltage Coefficient in (K _{0.5} Na _{0.5})NbO ₃ -Based Pb-Free Ceramics. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MD10.	0.8	4
50	Electrical Properties of Amorphous BaTi ₄ O ₉ Films Grown on Cu ₂ Ti/SiO ₂ Substrates Using RF Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1248-1252.	1.9	4
51	Fabrication and Characteristic of Nextel 720 Fiber-Reinforced Silicon Nitride Matrix Composites by Chemical Vapor Infiltration Process. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 529-534.	1.1	3
52	Effect of NiZnFeO ₄ Content on PZT-PZN+NiZnFeO ₄ Magnetolectric Composite. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1147-1151.	0.9	2
53	Si-HfO ₂ composite powders fabricated by freeze drying for bond layer of environmental barrier coatings. <i>Ceramics International</i> , 2022, 48, 19266-19273.	2.3	2
54	Processing and performance of 2D fused-silica fiber reinforced porous Si ₃ N ₄ matrix composites. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008, 15, 58-61.	0.2	1

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55	Synthesis of $\text{Bi}_2\text{O}_3/\text{YSZ}$ composite powders using a facile precipitation method. International Journal of Applied Ceramic Technology, 0, , .	1.1	1
56	Process optimization for Hafnia-doped silicon bond coats fabricated by plasma spraying for SiC-CMC. International Journal of Applied Ceramic Technology, 0, , .	1.1	0