

Hanzheng Guo

List of Publications by Year in descending order

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51
papers

4,342
citations

81743

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168136

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docs citations

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times ranked

2419
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilized antiferroelectricity in $x\text{BiScO}_3-(1-x)\text{NaNbO}_3$ lead-free ceramics with established double hysteresis loops. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	56
2	Microstructures and electrical properties of V_2O_5 and carbon-nanofiber composites fabricated by cold sintering process. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 025702.	0.8	15
3	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. <i>APL Materials</i> , 2018, 6, .	2.2	62
4	Interplay of conventional with inverse electrocaloric response in $(\text{Pb,Nb})(\text{Zr,Sn,Ti})\text{O}_3$ antiferroelectric materials. <i>Physical Review B</i> , 2018, 97, .	1.1	42
5	Cold sintering process for 8 mol% Y_2O_3 -stabilized ZrO_2 ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2303-2308.	2.8	71
6	Contrasting conduction mechanisms of two internal barrier layer capacitors: (Mn, Nb)-doped SrTiO_3 and $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	14
7	High-temperature thermoelectric characterization of filled strontium barium niobates: power factors and carrier concentrations. <i>Journal of Materials Research</i> , 2017, 32, 1160-1167.	1.2	10
8	Cold sintering process of $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ solid electrolyte. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2123-2135.	1.9	104
9	Cold sintering and co-firing of a multilayer device with thermoelectric materials. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3488-3496.	1.9	60
10	Current progress and perspectives of applying cold sintering process to ZrO_2 -based ceramics. <i>Scripta Materialia</i> , 2017, 136, 141-148.	2.6	58
11	Semiconducting properties of cold sintered V_2O_5 ceramics and Co-sintered V_2O_5 -PEDOT:PSS composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1529-1534.	2.8	46
12	Cold sintering: Current status and prospects. <i>Journal of Materials Research</i> , 2017, 32, 3205-3218.	1.2	195
13	Considering the possibility of bonding utilizing cold sintering for ceramic adhesives. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5421-5432.	1.9	12
14	Cold sintering of a Li-ion cathode: LiFePO_4 -composite with high volumetric capacity. <i>Ceramics International</i> , 2017, 43, 15370-15374.	2.3	69
15	Cold sintering process for ZrO_2 -based ceramics: significantly enhanced densification evolution in yttria-doped ZrO_2 . <i>Journal of the American Ceramic Society</i> , 2017, 100, 491-495.	1.9	64
16	Cold sintering process: A new era for ceramic packaging and microwave device development. <i>Journal of the American Ceramic Society</i> , 2017, 100, 669-677.	1.9	141
17	Demonstration of the cold sintering process study for the densification and grain growth of ZnO ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 546-553.	1.9	197
18	Filled oxygen-deficient strontium barium niobates. <i>Journal of the American Ceramic Society</i> , 2017, 100, 774-782.	1.9	6

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19	Base Metal Co-Fired Multilayer Piezoelectrics. <i>Actuators</i> , 2016, 5, 8.	1.2	55
20	Demonstration of Copper Co-Fired (Na, K)NbO ₃ Multilayer Structures for Piezoelectric Applications. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2017-2023.	1.9	52
21	A perovskite lead-free antiferroelectric xCaHfO ₃ -(1-x) NaNbO ₃ with induced double hysteresis loops at room temperature. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	64
22	Valence and electronic trap states of manganese in SrTiO ₃ -based colossal permittivity barrier layer capacitors. <i>RSC Advances</i> , 2016, 6, 92127-92133.	1.7	10
23	Hydrothermal-Assisted Cold Sintering Process: A New Guidance for Low-Temperature Ceramic Sintering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20909-20915.	4.0	170
24	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11457-11461.	7.2	335
25	Protocol for Ultralow-Temperature Ceramic Sintering: An Integration of Nanotechnology and the Cold Sintering Process. <i>ACS Nano</i> , 2016, 10, 10606-10614.	7.3	157
26	Utilizing the Cold Sintering Process for Flexible-Printable Electroceramic Device Fabrication. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3202-3204.	1.9	67
27	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie</i> , 2016, 128, 11629-11633.	1.6	61
28	Cold Sintering Process of Composites: Bridging the Processing Temperature Gap of Ceramic and Polymer Materials. <i>Advanced Functional Materials</i> , 2016, 26, 7115-7121.	7.8	218
29	Disrupting long-range polar order with an electric field. <i>Physical Review B</i> , 2016, 93, .	1.1	50
30	Cold Sintering Process: A Novel Technique for Low-Temperature Ceramic Processing of Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3489-3507.	1.9	284
31	Microstructural evolution in NaNbO ₃ -based antiferroelectrics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	27
32	Direct evidence of an incommensurate phase in NaNbO ₃ and its implication in NaNbO ₃ -based lead-free antiferroelectrics. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	76
33	Seed-Free Solid-State Growth of Large Lead-Free Piezoelectric Single Crystals: (Na _{1/2} K _{1/2})NbO ₃ . <i>Journal of the American Ceramic Society</i> , 2015, 98, 2988-2996.	1.9	43
34	In situ TEM study on the microstructural evolution during electric fatigue in 0.7Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3PbTiO ₃ ceramic. <i>Journal of Materials Research</i> , 2015, 30, 364-372.	1.2	10
35	Lead-free antiferroelectric: xCaZrO ₃ -(1-x)NaNbO ₃ system (0 ≤ x ≤ 0.10). <i>Dalton Transactions</i> , 2015, 44, 10763-10772.	1.6	236
36	Direct observation of the recovery of an antiferroelectric phase during polarization reversal of an induced ferroelectric phase. <i>Physical Review B</i> , 2015, 91, .	1.1	33

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37	Nanofragmentation of Ferroelectric Domains During Polarization Fatigue. <i>Advanced Functional Materials</i> , 2015, 25, 270-277.	7.8	47
38	Strategy for stabilization of the antiferroelectric phase ($Pbma$) over the metastable ferroelectric phase ($P21ma$) to establish double loop hysteresis in lead-free $(1-x)NaNbO_3-xSrZrO_3$ solid solution. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	89
39	Domain configuration changes under electric field-induced antiferroelectric-ferroelectric phase transitions in $NaNbO_3$ -based ceramics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	46
40	Effect of Ba Content on the Stress Sensitivity of the Antiferroelectric to Ferroelectric Phase Transition in (Pb, La, Ba, Zr, Sn) Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 206-212.	1.9	44
41	Evolution of structure and electrical properties with lanthanum content in $[(Bi_{1/2}Na_{1/2})_{0.95}Ba_{0.05}]_{1-x}La_xTiO_3$ ceramics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2997-3006.	2.8	71
42	Thermal analysis of phase transitions in perovskite electroceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 587-593.	2.0	15
43	Polarization alignment, phase transition, and piezoelectricity development in polycrystalline $(0.5Ba)_{1-x}(Zr)_{2x}TiO_3$. <i>Physical Review B</i> , 2014, 89, .	1.1	59
44	Unique single-domain state in a polycrystalline ferroelectric ceramic. <i>Physical Review B</i> , 2014, 89, .	1.1	59
45	Block copolymer/ferroelectric nanoparticle nanocomposites. <i>Nanoscale</i> , 2013, 5, 8695.	2.8	54
46	Microstructural origin for the piezoelectricity evolution in $(K_{0.5}Na_{0.5})NbO_3$ -based lead-free ceramics. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	56
47	A New Phase Boundary in $(Bi_{1/2}Na_{1/2})TiO_3 \sim BaTiO_3$ Revealed via a Novel Method of Electron Diffraction Analysis. <i>Advanced Functional Materials</i> , 2013, 23, 5261-5266.	7.8	127
48	Dynamics of polystyrene-block-poly(methylmethacrylate) (PS-b-PMMA) diblock copolymers and PS/PMMA blends: A dielectric study. <i>Journal of Non-Crystalline Solids</i> , 2013, 359, 27-32.	1.5	7
49	Electrical poling below coercive field for large piezoelectricity. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	73
50	Creation and Destruction of Morphotropic Phase Boundaries through Electrical Poling: A Case Study of Lead-Free $(Bi_{1/2}Na_{1/2})TiO_3$		