

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

53
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53
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53
docs citations

53
times ranked

2419
citing authors

#	ARTICLE	IF	CITATIONS
1	and Destruction of Lead-Free<mmi:math xmlns:mmi="http://www.w3.org/1998/Math/MathML" display="inline"><mmi:mo mathvariant="bold"		

#	ARTICLE	IF	CITATIONS
19	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
20	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
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	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
23	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. <i>APL Materials</i> , 2018, 6, .	2.2	62
24	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie</i> , 2016, 128, 11629-11633.	1.6	61
25	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
26	Unique single-domain state in a polycrystalline ferroelectric ceramic. <i>Physical Review B</i> , 2014, 89, .	1.1	59
27	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
28	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
29	Stabilized antiferroelectricity in xBiScO ₃ -(1-x)NaNbO ₃ lead-free ceramics with established double hysteresis loops. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	56
30	Base Metal Co-Fired Multilayer Piezoelectrics. <i>Actuators</i> , 2016, 5, 8.	1.2	55
31	Block copolymer/ferroelectric nanoparticle nanocomposites. <i>Nanoscale</i> , 2013, 5, 8695.	2.8	54
32	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
33	Disrupting long-range polar order with an electric field. <i>Physical Review B</i> , 2016, 93, .	1.1	50
34	Nanofragmentation of Ferroelectric Domains During Polarization Fatigue. <i>Advanced Functional Materials</i> , 2015, 25, 270-277.	7.8	47
35	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
36	Semiconducting properties of cold sintered V ₂ O ₅ ceramics and Co-sintered V ₂ O ₅ -PEDOT:PSS composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1529-1534.	2.8	46

#	ARTICLE	IF	CITATIONS
37	Effect of $\langle \text{Ba} \rangle$ Content on the Stress Sensitivity of the Antiferroelectric to Ferroelectric Phase Transition in $(\langle \text{Pb} \rangle, \langle \text{La} \rangle, \langle \text{Ba} \rangle)(\langle \text{Zr} \rangle, \langle \text{Sn} \rangle)$ Ceramics. Journal of the American Ceramic Society, 2014, 97, 206-212.	1.9	44
38	Seed-Free Solid-State Growth of Large Lead-Free Piezoelectric Single Crystals: $(\text{Na}_{1/2}\text{K}_{1/2})\text{NbO}_3$. Journal of the American Ceramic Society, 2015, 98, 2988-2996.	1.9	43
39	Interplay of conventional with inverse electrocaloric response in $(\text{Pb}, \text{Nb})(\text{Zr}, \text{Sn}, \text{Ti})\text{O}_3$ antiferroelectric materials. Physical Review B, 2018, 97, .	1.1	42
40	Direct observation of the recovery of an antiferroelectric phase during polarization reversal of an induced ferroelectric phase. Physical Review B, 2015, 91, .	1.1	33
41	Microstructural evolution in NaNbO_3 -based antiferroelectrics. Journal of Applied Physics, 2015, 118, .	1.1	27
42	Structure evolution and dielectric behavior of polystyrene-capped barium titanate nanoparticles. Journal of Materials Chemistry, 2012, , .	6.7	17
43	Thermal analysis of phase transitions in perovskite electroceramics. Journal of Thermal Analysis and Calorimetry, 2014, 115, 587-593.	2.0	15
44	Microstructures and electrical properties of V_2O_5 and carbon-nanofiber composites fabricated by cold sintering process. Japanese Journal of Applied Physics, 2018, 57, 025702.	0.8	15
45	Contrasting conduction mechanisms of two internal barrier layer capacitors: (Mn, Nb) -doped SrTiO_3 and $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$. Journal of Applied Physics, 2017, 121, .	1.1	14
46	Considering the possibility of bonding utilizing cold sintering for ceramic adhesives. Journal of the American Ceramic Society, 2017, 100, 5421-5432.	1.9	12
47	In situ TEM study on the microstructural evolution during electric fatigue in $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \sim 0.3\text{PbTiO}_3$ ceramic. Journal of Materials Research, 2015, 30, 364-372.	1.2	10
48	Valence and electronic trap states of manganese in SrTiO_3 -based colossal permittivity barrier layer capacitors. RSC Advances, 2016, 6, 92127-92133.	1.7	10
49	High-temperature thermoelectric characterization of filled strontium barium niobates: power factors and carrier concentrations. Journal of Materials Research, 2017, 32, 1160-1167.	1.2	10
50	Dynamics of polystyrene-block-poly(methylmethacrylate) (PS-b-PMMA) diblock copolymers and PS/PMMA blends: A dielectric study. Journal of Non-Crystalline Solids, 2013, 359, 27-32.	1.5	7
51	Filled oxygen-deficient strontium barium niobates. Journal of the American Ceramic Society, 2017, 100, 774-782.	1.9	6