

Lisheng Gao

List of Publications by Year in descending order

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39
papers

3,436
citations

159358

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301761

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docs citations

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times ranked

1852
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11457-11461.	7.2	335
2	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
3	Lead-free antiferroelectric: $x\text{CaZrO}_3-(1-x)\text{NaNbO}_3$ system ($0 \leq x \leq 0.10$). <i>Dalton Transactions</i> , 2015, 44, 10763-10772.	1.6	236
4	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
5	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
6	Cold sintering: Current status and prospects. <i>Journal of Materials Research</i> , 2017, 32, 3205-3218.	1.2	195
7	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
8	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
9	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
10	A New Phase Boundary in $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3 \sim \text{BaTiO}_3$ Revealed via a Novel Method of Electron Diffraction Analysis. <i>Advanced Functional Materials</i> , 2013, 23, 5261-5266.	7.8	127
11	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
12	Strategy for stabilization of the antiferroelectric phase (Pbma) over the metastable ferroelectric phase (P21ma) to establish double loop hysteresis in lead-free $(1-x)\text{NaNbO}_3-x\text{SrZrO}_3$ solid solution. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	89
13	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
14	Polarization alignment, phase transition, and piezoelectricity development in polycrystalline $0.5\text{Ba}_{1-x}\text{Sr}_x\text{ZrO}_3$. <i>Physical Review B</i> , 2014, 90, .		
15	Electrical poling below coercive field for large piezoelectricity. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	73
16	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
17	A perovskite lead-free antiferroelectric $x\text{CaHfO}_3-(1-x)\text{NaNbO}_3$ with induced double hysteresis loops at room temperature. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	64
18	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

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19	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. <i>APL Materials</i> , 2018, 6, .	2.2	62
20	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie</i> , 2016, 128, 11629-11633.	1.6	61
21	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
22	Unique single-domain state in a polycrystalline ferroelectric ceramic. <i>Physical Review B</i> , 2014, 89, .	1.1	59
23	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
24	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
25	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
26	Disrupting long-range polar order with an electric field. <i>Physical Review B</i> , 2016, 93, .	1.1	50
27	Nanofragmentation of Ferroelectric Domains During Polarization Fatigue. <i>Advanced Functional Materials</i> , 2015, 25, 270-277.	7.8	47
28	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
29	Effect of Ba Content on the Stress Sensitivity of the Antiferroelectric to Ferroelectric Phase Transition in (Pb,La,Ba)(Zr,Sn)O ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 206-212.	1.9	44
30	Interplay of conventional with inverse electrocaloric response in (Pb,Nb)(Zr,Sn,Ti)O ₃ antiferroelectric materials. <i>Physical Review B</i> , 2018, 97, .	1.1	42
31	Microstructural evolution in NaNbO ₃ -based antiferroelectrics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	27
32	New Opportunities in Metallization Integration in Cofired Electroceramic Multilayers by the Cold Sintering Process. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1198-1207.	2.0	25
33	Contrasting conduction mechanisms of two internal barrier layer capacitors: (Mn, Nb)-doped SrTiO ₃ and CaCu ₃ Ti ₄ O ₁₂ . <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	14
34	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
35	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
36	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

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37	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
38	Fabrication of bimorph lead zirconate titanate thick films on metal substrates via the cold sintering-assisted process. <i>Acta Materialia</i> , 2020, 195, 482-490.	3.8	9
39	Filled oxygen-deficient strontium barium niobates. <i>Journal of the American Ceramic Society</i> , 2017, 100, 774-782.	1.9	6