Jing Guo

List of Publications by Year
in descending order

90 papers	5,188 citations	70961 41 h-index	91712 69 g-index
93 all docs	93 docs citations	93 times ranked	2275 citing authors

#	Article	IF	Citations
1	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. Angewandte Chemie - International Edition, 2016, 55, 11457-11461.	7.2	335
2	Cold Sintering Process: A Novel Technique for Lowâ€Temperature Ceramic Processing of Ferroelectrics. Journal of the American Ceramic Society, 2016, 99, 3489-3507.	1.9	284
3	Cold Sintering Process of Composites: Bridging the Processing Temperature Gap of Ceramic and Polymer Materials. Advanced Functional Materials, 2016, 26, 7115-7121.	7.8	218
4	Microwave Dielectric Properties of Li₂WO₄ Ceramic with Ultraâ€Low Sintering Temperature. Journal of the American Ceramic Society, 2011, 94, 348-350.	1.9	206
5	Demonstration of the cold sintering process study for the densification and grain growth of ZnO ceramics. Journal of the American Ceramic Society, 2017, 100, 546-553.	1.9	197
6	Cold sintering: Current status and prospects. Journal of Materials Research, 2017, 32, 3205-3218.	1.2	195
7	Hydrothermal-Assisted Cold Sintering Process: A New Guidance for Low-Temperature Ceramic Sintering. ACS Applied Materials & Interfaces, 2016, 8, 20909-20915.	4.0	170
8	Cold Sintering: Progress, Challenges, and Future Opportunities. Annual Review of Materials Research, 2019, 49, 275-295.	4.3	166
9	Protocol for Ultralow-Temperature Ceramic Sintering: An Integration of Nanotechnology and the Cold Sintering Process. ACS Nano, 2016, 10, 10606-10614.	7.3	157
10	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. Advanced Materials, 2018, 30, e1801846.	11.1	149
11	Influence of Ce Substitution for Bi in BiVO₄ and the Impact on the Phase Evolution and Microwave Dielectric Properties. Inorganic Chemistry, 2014, 53, 1048-1055.	1.9	145
12	Cold sintering process: A new era for ceramic packaging and microwave device development. Journal of the American Ceramic Society, 2017, 100, 669-677.	1.9	141
13	Recent Progress in Applications of the Cold Sintering Process for Ceramicâ€"Polymer Composites. Advanced Functional Materials, 2018, 28, 1801724.	7.8	110
14	Cold sintering process of Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ solid electrolyte. Journal of the American Ceramic Society, 2017, 100, 2123-2135.	1.9	104
15	Microwave Dielectric Properties of Li₂(M²⁺)₂Mo₃O₁₂ and Li₃(M³⁺)Mo₃O₁₂ (M=Zn, Ca, Al, and In) Lyonsiteâ€Relatedâ€Type Ceramics with Ultraâ€Low Sintering Temperatures. Journal of the American Ceramic Society, 2011, 94, 802-805.	1.9	92
16	Decarbonising ceramic manufacturing: A techno-economic analysis of energy efficient sintering technologies in the functional materials sector. Journal of the European Ceramic Society, 2019, 39, 5213-5235.	2.8	90
17	Phase transition, Raman spectra, infrared spectra, band gap and microwave dielectric properties of low temperature firing (Na0.5xBi1â^'0.5x)(MoxV1â^'x)O4 solid solution ceramics with scheelite structures. Journal of Materials Chemistry, 2011, 21, 18412.	6.7	84
18	Microwave dielectric properties of (1â^'x)ZnMoO4â€"xTiO2 composite ceramics. Journal of Alloys and Compounds, 2011, 509, 5863-5865.	2.8	74

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19	Infrared spectra, Raman spectra, microwave dielectric properties and simulation for effective permittivity of temperature stable ceramics AMoO₄â€“TiO₂(A = Ca, Sr). Dalton Transactions, 2013, 42, 1483-1491.	1.6	73
20	Cold sintering process for 8 mol%Y2O3-stabilized ZrO2 ceramics. Journal of the European Ceramic Society, 2017, 37, 2303-2308.	2.8	71
21	Cold sintering of a Li-ion cathode: LiFePO4-composite with high volumetric capacity. Ceramics International, 2017, 43, 15370-15374.	2.3	69
22	Microwave dielectric properties of (ABi)1/2MoO4 (A=Li, Na, K, Rb, Ag) type ceramics with ultra-low firing temperatures. Materials Chemistry and Physics, 2011, 129, 688-692.	2.0	68
23	Phase evolution, phase transition, and microwave dielectric properties of scheelite structured xBi(Fe1/3Mo2/3)O4â€“(1âˆ'x)BiVO4 (0.0 â‰ x â‰ 1.0) low temperature firing ceramics. Journal of Materials Chemistry, 2012, 22, 21412.	6.7	68
24	Utilizing the Cold Sintering Process for Flexibleâ€“Printable Electroceramic Device Fabrication. Journal of the American Ceramic Society, 2016, 99, 3202-3204.	1.9	67
25	Cold sintering process for ZrO₂â€based ceramics: significantly enhanced densification evolution in yttriaâ€doped ZrO₂. Journal of the American Ceramic Society, 2017, 100, 491-495.	1.9	64
26	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. Angewandte Chemie, 2016, 128, 11629-11633.	1.6	61
27	Cold sintering and coâ€firing of a multilayer device with thermoelectric materials. Journal of the American Ceramic Society, 2017, 100, 3488-3496.	1.9	60
28	Current progress and perspectives of applying cold sintering process to ZrO2-based ceramics. Scripta Materialia, 2017, 136, 141-148.	2.6	58
29	Ferroelastic phase transition compositional dependence for solid-solution [(Li0.5Bi0.5)xBi1âˆ'x][MoxV1âˆ'x]O4 scheelite-structured microwave dielectric ceramics. Acta Materialia, 2011, 59, 1502-1509.	3.8	57
30	Ultraâ€low Sintering Temperature Microwave Dielectric Ceramics Based on Na₂Oâ€MoO₃ Binary System. Journal of the American Ceramic Society, 2015, 98, 528-533.	1.9	55
31	Introducing a ZnOâ€“PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. Advanced Engineering Materials, 2018, 20, 1700902.	1.6	55
32	Phase Evolution, Phase Transition, Raman Spectra, Infrared Spectra, and Microwave Dielectric Properties of Low Temperature Firing (K_{0.5<i>x</i>}Bi_{1â€“0.5<i>x</i>})(Mo_{<i>x</i>}V_{1â€“<i>x</i>})O₄ Ceramics with Scheelite Related Structure. Inorganic Chemistry, 2011, 50, 12733-12738.	1.9	54
33	Preparation and Microwave Dielectric Properties of Ultraâ€low Temperature Sintering Ceramics in <scp><scp>K</scp></scp>₂<scp><scp>O</scp></scp>â€“<scp><scp>MoO</scp></scp>₃ Binary System. Journal of the American Ceramic Society, 2014, 97, 241-245.	1.9	49
34	Modern approaches to studying gas adsorption in nanoporous carbons. Journal of Materials Chemistry A, 2013, 1, 9341.	5.2	47
35	Microwave Dielectric Ceramics Li₂<scp>MO</scp>₄âˆ'TiO₂ (MÂ=ÂMo,) Tj ETQq1 1 0.784314	1.9	47
36	Low temperature firing microwave dielectric ceramics (K0.5Ln0.5)MoO4 (Ln=Nd and Sm) with low dielectric loss. Journal of the European Ceramic Society, 2011, 31, 2749-2752.	2.8	46

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37	Temperature stable microwave dielectric ceramic 0.3Li2TiO3â€“0.7Li(Zn0.5Ti1.5)O4 with ultra-low dielectric loss. Materials Letters, 2011, 65, 2680-2682.	1.3	46
38	Semiconducting properties of cold sintered V2O5 ceramics and Co-sintered V2O5-PEDOT:PSS composites. Journal of the European Ceramic Society, 2017, 37, 1529-1534.	2.8	46
39	Sintering Behavior and Dielectric Properties of Ultraâ€Low Temperature Fired Silver Molybdate Ceramics. Journal of the American Ceramic Society, 2014, 97, 3597-3601.	1.9	45
40	Structureâ€“property relationships of novel microwave dielectric ceramics with low sintering temperatures: (Na_{0.5x}Bi_{0.5x}Ca_{1â^'x})MoO₄. Dalton Transactions, 2014, 43, 11888-11896.	1.6	43
41	Waterâ€Mediated Surface Diffusion Mechanism Enables the Cold Sintering Process: A Combined Computational and Experimental Study. Angewandte Chemie - International Edition, 2019, 58, 12420-12424.	7.2	42
42	Microwave and Infrared Dielectric Response of Temperature Stable (1â^'<i>x</i>)<scp><scp>BaMoO</scp>₄</scp>â€“<i>x</i><scp><scp>TiO</scp>₂</scp Composite Ceramics. Journal of the American Ceramic Society, 2012, 95, 232-237.	1.9	41
43	Crystal Structure and Microwave Dielectric Properties of an Ultralowâ€Temperatureâ€Fired (AgBi)_{0.5}WO₄ Ceramic. European Journal of Inorganic Chemistry, 2014, 2014, 296-301.	1.0	40
44	Synthesis, structure, and characterization of new low-firing microwave dielectric ceramics: (Ca_{1â^'3x}Bi_{2x}Î¦_x)MoO₄. Journal of Materials Chemistry C, 2014, 2, 7364-7372.	2.7	40
45	Cold sintering approach to fabrication of high rate performance binderless LiFePO4 cathode with high volumetric capacity. Scripta Materialia, 2018, 146, 267-271.	2.6	37
46	Cold Sintering Na₂Mo₂O₇ Ceramic with Poly(ether imide) (PEI) Polymer to Realize High-Performance Composites and Integrated Multilayer Circuits. ACS Applied Nano Materials, 2018, 1, 3837-3844.	2.4	35
47	Enhanced electrical properties of CaCu3Ti4O12 ceramics by spark plasma sintering: Role of Zn and Al co-doping. Journal of Alloys and Compounds, 2019, 792, 1079-1087.	2.8	35
48	Microwave Dielectric Properties of (Li_{0.5}Ln_{0.5})MoO₄ (LnÂ=ÂNd, Er,) Tj ETQq0 0 0 rgBT /Overlock	1.9	34
49	Phase evolution and microwave dielectric properties of xBi_{2/3}MoO₄â€“(1 â^') Tj ETQq1 1 0.784314 rgBT /Ov 7290-7297.	1.6	33
50	Ultra-low temperature sintering and microwave dielectric properties of a novel temperature stable Na2Mo2O7-Na0.5Bi0.5MoO4 ceramic. Journal of the European Ceramic Society, 2018, 38, 813-816.	2.8	29
51	MICROWAVE DIELECTRIC PROPERTIES AND RAMAN SPECTROSCOPY OF SCHEELITE SOLID SOLUTION [(Li0.5Bi0.5)1-xCax]MoO4 CERAMICS WITH ULTRA-LOW SINTERING TEMPERATURES. Functional Materials Letters, 2010, 03, 253-257.	0.7	28
52	Ultraâ€low temperature sintering microwave dielectric ceramics based on Ag₂Oâ€“MoO₃ binary system. Journal of the American Ceramic Society, 2017, 100, 2604-2611.	1.9	28
53	Reactive intermediate phase cold sintering in strontium titanate. RSC Advances, 2018, 8, 20372-20378.	1.7	27
54	Structure, Phase Evolution, and Microwave Dielectric Properties of (Ag_{0.5}Bi_{0.5})(Mo_{0.5}W_{0.5})O₄ Ceramic with Ultralow Sintering Temperature. Inorganic Chemistry, 2014, 53, 5712-5716.	1.9	26

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55	Cold sintering ZnO based varistor ceramics with controlled grain growth to realize superior breakdown electric field. Journal of the European Ceramic Society, 2021, 41, 430-435.	2.8	26
56	Preparation of zinc oxide/poly-ether-ether-ketone (PEEK) composites via the cold sintering process. Acta Materialia, 2021, 215, 117036.	3.8	26
57	Cold sintering of ZnO-PTFE: Utilizing polymer phase to promote ceramic anisotropic grain growth. Acta Materialia, 2020, 186, 511-516.	3.8	24
58	Effect of porosity and microstructure on the microwave dielectric properties of rutile. Materials Letters, 2017, 200, 101-104.	1.3	23
59	Enhanced flexoelectric effect in a non-ferroelectric composite. Applied Physics Letters, 2013, 103, .	1.5	22
60	Correlation between vibrational modes and dielectric properties in (Ca 1â˘3x Bi 2x Î¦ x)MoO 4 ceramics. Journal of the European Ceramic Society, 2015, 35, 4459-4464.	2.8	21
61	Cold-sintered V2O5-PEDOT:PSS nanocomposites for negative temperature coefficient materials. Journal of the European Ceramic Society, 2019, 39, 1257-1262.	2.8	21
62	Dielectric behavior, band gap, in situ X-ray diffraction, Raman and infrared study on (1 â˘) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (	1.7	20
63	Local Observation of the Site Occupancy of Mn in a MnFePSi Compound. Physical Review Letters, 2015, 114, 106101.	2.9	20
64	Rutile TiO2 microwave dielectric ceramics prepared via cold sintering assisted two step sintering. Journal of the European Ceramic Society, 2021, 41, 3459-3465.	2.8	20
65	Microwave dielectric properties and low temperature firing of (1Ââ˘Âx)Li2Zn3Ti4O12 â€“xLi2TiO3 (0.2Ââ‰ÂxÂâ‰Â0.8) ceramics with B2O3â€“CuO addition. Journal of Materials Science: Materials in Electronics, 2013, 24, 1505-1510.	1.1	19
66	Grain size effect on microwave dielectric properties of Na2WO4 ceramics prepared by cold sintering process. Ceramics International, 2020, 46, 27193-27198.	2.3	18
67	Control of Crystal Morphology for Mold Flux During High-Aluminum AHSS Continuous Casting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2211-2221.	1.0	17
68	New Microwave Dielectric Ceramics <scp>BaLn₂(MoO₄)₄</scp> (<scp>Ln</scp>Â=Â<scp>Nd</scp> and <scp>Sm</scp>) with Low Loss. Journal of the American Ceramic Society, 2011, 94, 2800-2803.	1.9	16
69	PHASE EVOLUTION AND MICROWAVE DIELECTRIC PROPERTIES OF (Li_{0.5}Bi_{0.5})(W_{1-x}Mo_x) 1250042.	0.7	16
70	A Novel Magnetoâ€Dielectric Solid Solution Ceramic 0.25<scp><scp>LiFe</scp></scp>₅<scp><scp>O</scp></scp>₈â€“0.75<scp><scp>Li</scp></scp><sub>2</s with Relatively High Permeability and Ultraâ€Low Dielectric Loss. Journal of the American Ceramic Society, 2012, 95, 3732-3734.	1.9	16
71	Microstructural evolution of ZnO via hybrid cold sintering/spark plasma sintering. Journal of the European Ceramic Society, 2022, 42, 5738-5746.	2.8	16
72	Dielectric properties and phase transitions of BiNbO4 ceramic. Scripta Materialia, 2014, 81, 40-43.	2.6	15

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73	Microstructures and electrical properties of V2O5and carbon-nanofiber composites fabricated by cold sintering process. Japanese Journal of Applied Physics, 2018, 57, 025702.	0.8	15
74	Microwave dielectric properties of the (1â^'x)(Mg0.95Zn0.05)TiO3â^'x(Ca0.8Sm0.4/3)TiO3 temperature stable ceramics. Materials Letters, 2014, 132, 200-202.	1.3	14
75	Waterâ€Mediated Surface Diffusion Mechanism Enables the Cold Sintering Process: A Combined Computational and Experimental Study. Angewandte Chemie, 2019, 131, 12550-12554.	1.6	14
76	Microwave dielectric properties of scheelite structured low temperature fired Bi(In1/3Mo2/3)O4 ceramic. Ceramics International, 2013, 39, 4719-4722.	2.3	13
77	Considering the possibility of bonding utilizing cold sintering for ceramic adhesives. Journal of the American Ceramic Society, 2017, 100, 5421-5432.	1.9	12
78	Additive Manufacturing of Bi-Continuous Piezocomposites With Triply Periodic Phase Interfaces for Combined Flexibility and Piezoelectricity. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	12
79	Altering interfacial properties through the integration of C60 into ZnO ceramic via cold sintering process. Carbon, 2022, 190, 255-261.	5.4	12
80	SINTERING BEHAVIOR AND MICROWAVE DIELECTRIC PROPERTIES OF NOVEL LOW TEMPERATURE FIRINGBi₃FeMo₂O₁₂CERAMIC. Journal of Advanced Dielectrics, 2011, 01, 379-382.	1.5	11
81	Microwave dielectric properties and low temperature sintering of Li2Zn(Ti1â^'xSnx)3O8 (xÂâ‰Â0.20) ceramics with B2O3â€"CuO addition. Journal of Materials Science: Materials in Electronics, 2013, 24, 4942-4946.	1.1	11
82	Phase evolution and microwave dielectric properties of Bi3SbO7 ceramic. Journal of Physics and Chemistry of Solids, 2011, 72, 882-885.	1.9	10
83	Nonstoichiometric microwave dielectric ceramics [(Na0.5-xBi0.5+x/3)0.5Ca0.5]MoO4 with low sintering temperatures. Journal of the European Ceramic Society, 2021, 41, 7029-7034.	2.8	10
84	Cold sintered composites consisting of PEEK and metal oxides with improved electrical properties via the hybrid interfaces. Composites Part B: Engineering, 2021, 226, 109349.	5.9	10
85	Phase Evolution and Microwave Dielectric Properties of (<scp><scp>Bi</scp></scp>_{1â^'<i>x</i>}<scp><scp>Fe</scp></scp>_{<i>x</i>})<scp><scp>VO</scp></scp><su (<i>x</i>Ââ‰Â0.40) Ceramics. Journal of the American Ceramic Society, 2014, 97, 2915-2920.	1.9	9
86	Epigenetic Element-Based Transcriptome-Wide Association Study Identifies Novel Genes for Bipolar Disorder. Schizophrenia Bulletin, 2021, 47, 1642-1652.	2.3	8
87	Cold Sintering of Na2WO4 Ceramics using a Na2WO4-2H2O Chemistry. Journal of the European Ceramic Society, 2021, 41, 6029-6034.	2.8	6
88	Heterogeneous multilayer dielectric ceramics enabled by ultralowâ€temperature selfâ€constrained sintering. Journal of the American Ceramic Society, 2020, 103, 249-257.	1.9	5
89	Pattern Reorganization of Corticomuscular Connection with the Tactile Stimulation. Annals of Biomedical Engineering, 2020, 48, 834-847.	1.3	4
90	The effects of cold sintering parameters on the densification of Na ₂ WO ₄ ceramics using Na ₂ WO ₄ Â·2H ₂ O dry powders. Journal of the American Ceramic Society, 0, , .	1.9	4