

Clive A Randall

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

455
papers

20,750
citations

74
h-index

124
g-index

482
ext. papers

23,229
ext. citations

3.9
avg, IF

7.08
L-index

#	Paper	IF	Citations
455	Integration and characterization of a ferroelectric polymer PVDF-TrFE into the grain boundary structure of ZnO via cold sintering. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2789-2789	6	0
454	Altering interfacial properties through the integration of C60 into ZnO ceramic via cold sintering process. <i>Carbon</i> , 2022 , 190, 255-261	10.4	0
453	Cold Sintering of Iron Powdered Metal Compacts and Their Performance. <i>Minerals, Metals and Materials Series</i> , 2022 , 564-570	0.3	1
452	Fundamentals and practical dielectric implications of stoichiometry and chemical design in a high-performance ferroelectric oxide: BaTiO ₃ . <i>Journal of the European Ceramic Society</i> , 2022 , 42, 1445-1473	6	4
451	Cold sintering of the ceramic potassium sodium niobate, (K _{0.5} Na _{0.5})NbO ₃ , and influences on piezoelectric properties. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 105-111	6	0
450	Mechanisms and Energetics in the early stages of solvent-assisted low-temperature sintering of ZnO. <i>Materialia</i> , 2022 , 101418	3.2	
449	Polarization Mechanism Underlying Strongly Enhanced Dielectric Permittivity in Polymer Composites with Conductive Fillers. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7596-7604	3.8	5
448	Morphological and chemical evolution of transient interfaces during zinc oxide cold sintering process. <i>Materials Today Chemistry</i> , 2022 , 24, 100925	6.2	
447	Progress and Opportunities in the Application of Cold Sintering to Solid-State, Electrochemical, and Ceramic Devices. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-02, 1382-1382	0	
446	The influence of Mn doping on the leakage current mechanisms and resistance degradation behavior in lead zirconate titanate films. <i>Acta Materialia</i> , 2021 , 208, 116680	8.4	10
445	Dynamics of the Chemically Driven Densification of Barium Titanate Using Molten Hydroxides. <i>Nano Letters</i> , 2021 , 21, 3451-3457	11.5	7
444	Leakage current characteristics and DC resistance degradation mechanisms in Nb doped PZT films. <i>Journal of Applied Physics</i> , 2021 , 129, 174102	2.5	1
443	Surface modification of BaTiO ₃ with catechol surfactant and effects on cold sintering. <i>Journal of Applied Physics</i> , 2021 , 129, 184102	2.5	2
442	Antiferroelectrics: History, fundamentals, crystal chemistry, crystal structures, size effects, and applications. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3775-3810	3.8	11
441	Thermally stimulated depolarization current measurements on degraded lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5270-5280	3.8	5
440	Comparison of different sintering aids in cold sinter-assisted densification of lead zirconate titanate. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5479-5488	3.8	1
439	High permittivity BaTiO ₃ and BaTiO ₃ -polymer nanocomposites enabled by cold sintering with a new transient chemistry: Ba(OH) ₂ ·8H ₂ O. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 409-417	6	13

438	Cold Sintering and Hydrothermal Sintering 2021 , 311-326		
437	Cold sintering ZnO based varistor ceramics with controlled grain growth to realize superior breakdown electric field. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 430-435	6	5
436	In situ doping of BaTiO ₃ and visualization of pressure solution in flux-assisted cold sintering. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 96-104	3.8	9
435	An overview of oxygen vacancy dynamics in (1-x)(Bi _{1/2} Na _{1/2})TiO ₃ -xBaTiO ₃ solid solution. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10303-10308	7.1	4
434	Cold sintering, enabling a route to co-sinter an all-solid-state lithium-ion battery. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 037001	1.4	6
433	Piezoelectric glass-ceramics: Crystal chemistry, orientation mechanisms, and emerging applications. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1915-1944	3.8	2
432	Interfacial effects on the dielectric properties of elastomer/carbon-black/ceramic composites. <i>MRS Advances</i> , 2021 , 6, 247-251	0.7	5
431	Assessment of the Role of Speciation during Cold Sintering of ZnO Using Chelates. <i>Inorganic Chemistry</i> , 2021 , 60, 13453-13460	5.1	1
430	Preparation of zinc oxide/poly-ether-ether-ketone (PEEK) composites via the cold sintering process. <i>Acta Materialia</i> , 2021 , 215, 117036	8.4	6
429	Highly Reliable BaTiO ₃ -Polyphenylene Oxide Nanocomposite Dielectrics via Cold Sintering. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100963	4.6	3
428	Design and Sintering of All-Solid-State Composite Cathodes with Tunable Mixed Conduction Properties via the Cold Sintering Process. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48071-48087	9.5	1
427	Cold Sintering of PZT 2-2 Composites for High Frequency Ultrasound Transducer Arrays. <i>Actuators</i> , 2021 , 10, 235	2.4	0
426	Engineering the nature of polarization dynamics in lead-free relaxors based on (Bi _{1/2} Na _{1/2})TiO ₃ . <i>Applied Physics Letters</i> , 2021 , 119, 112904	3.4	1
425	Cold sintered composites consisting of PEEK and metal oxides with improved electrical properties via the hybrid interfaces. <i>Composites Part B: Engineering</i> , 2021 , 226, 109349	10	3
424	Assessment of Strain Relaxation and Oxygen Vacancy Migration Near Grain Boundary in SrTiO ₃ Bicrystals by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11892-11901	3.8	0
423	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	8.4	1
422	Broad temperature dependence, high conductivity, and structure-property relations of cold sintering of LLZO-based composite electrolytes. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6241-6248	6.248	16
421	A Route towards Fabrication of Functional Ceramic/Polymer Nanocomposite Devices Using the Cold Sintering Process. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1917-1924	4	5

420	Direct, spatially resolved observation of defect states with electromigration and degradation of single crystal SrTiO ₃ . <i>Journal of Applied Physics</i> , 2020 , 127, 094105	2.5	5
419	Anisothermal densification kinetics of the cold sintering process below 150 °C. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5668-5672	7.1	14
418	Thermosetting polymers in cold sintering: The fabrication of ZnO-polydimethylsiloxane composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3039-3050	3.8	11
417	Size and scaling effects in barium titanate. An overview. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3744-3758	6	58
416	Cold sintering of ZnO-PTFE: Utilizing polymer phase to promote ceramic anisotropic grain growth. <i>Acta Materialia</i> , 2020 , 186, 511-516	8.4	8
415	Densification of a Solid-State NASICON Sodium-Ion Electrolyte Below 400 °C by Cold Sintering With a Fused Hydroxide Solvent. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4356-4366	6.1	14
414	Model for the cold sintering of lead zirconate titanate ceramic composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4894-4902	3.8	5
413	Single-step densification of nanocrystalline CeO ₂ by the cold sintering process. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2979-2985	3.8	9
412	Thermal-assisted cold sintering study of a lithium electrolyte: Li _{13.9} Sr _{0.1} Zn(GeO ₄) ₄ . <i>Journal of Electroceramics</i> , 2020 , 44, 16-22	1.5	3
411	Single step densification of high permittivity BaTiO ₃ ceramics at 300 °C. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1280-1284	6	31
410	Comparing hydrothermal sintering and cold sintering process: Mechanisms, microstructure, kinetics and chemistry. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1312-1324	6	28
409	Toward a size scale-up cold sintering process at reduced uniaxial pressure. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2322-2327	3.8	7
408	Roadmap for densification in cold sintering: Chemical pathways. <i>Open Ceramics</i> , 2020 , 2, 100019	3.3	12
407	Introducing an extremely high output power and high temperature piezoelectric bimorph energy harvester technology based on the ferroelectric system Bi(Me)O ₃ -PbTiO ₃ . <i>Journal of Applied Physics</i> , 2020 , 128, 144102	2.5	3
406	Enhanced high permittivity BaTiO ₃ /polymer nanocomposites from the cold sintering process. <i>Journal of Applied Physics</i> , 2020 , 128, 084103	2.5	7
405	Cold sintering of yttria-stabilized cubic bismuth oxide: Conductivity and microstructural evolution of metastable grain boundaries with annealing. <i>Journal of Applied Physics</i> , 2020 , 128, 215104	2.5	3
404	New Opportunities in Metallization Integration in Cofired Electroceramic Multilayers by the Cold Sintering Process. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1198-1207	4	15
403	Cold-Sintered COG Multilayer Ceramic Capacitors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900025	6.4	38

402	CeramicSalt Composite Electrolytes from Cold Sintering. <i>Advanced Functional Materials</i> , 2019 , 29, 180781-180786	3.6	42
401	Decarbonising ceramic manufacturing: A techno-economic analysis of energy efficient sintering technologies in the functional materials sector. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5213-5235	6	42
400	Sintering mechanisms and dielectric properties of cold sintered (1-x) SiO ₂ - x PTFE composites. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4743-4751	6	18
399	Water-Mediated Surface Diffusion Mechanism Enables the Cold Sintering Process: A Combined Computational and Experimental Study. <i>Angewandte Chemie</i> , 2019 , 131, 12550-12554	3.6	8
398	Cold Sintering: Progress, Challenges, and Future Opportunities. <i>Annual Review of Materials Research</i> , 2019 , 49, 275-295	12.8	76
397	Water-Mediated Surface Diffusion Mechanism Enables the Cold Sintering Process: A Combined Computational and Experimental Study. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12420-12424	16.4	22
396	Cold sintering process for fabrication of a high volumetric capacity Li ₄ Ti ₅ O ₁₂ anode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 250, 114435	3.1	6
395	Ultrahigh piezoelectric coefficient of a lead-free K _{0.5} Na _{0.5} NbO ₃ -based single crystal fabricated by a simple seed-free solid-state growth method. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14845-14854	7.1	25
394	Chelate complex assisted cold sintering for spinel ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 899-904	1	3
393	Polarity dependent DC resistance degradation and electrical breakdown in Nb doped PZT films. <i>APL Materials</i> , 2019 , 7, 120901	5.7	10
392	Atmospheric controlled processing enabling highly textured NKN with enhanced piezoelectric performance. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 963-972	6	10
391	Material and device design for the high performance low temperature co-fired multilayer piezoelectric transformer. <i>Sensors and Actuators A: Physical</i> , 2019 , 286, 4-13	3.9	6
390	Local structural changes due to the electric field-induced migration of oxygen vacancies at Fe-doped SrTiO ₃ interfaces. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4353-4366	3.8	8
389	Densification of thermodynamically unstable tin monoxide using cold sintering process. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1230-1236	6	17
388	Conductivity of iron-doped strontium titanate in the quenched and degraded states. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3567-3577	3.8	10
387	Cold-sintered V ₂ O ₅ -PEDOT:PSS nanocomposites for negative temperature coefficient materials. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1257-1262	6	11
386	Applying cold sintering process to a proton electrolyte material: CsH ₂ PO ₄ . <i>Journal of the European Ceramic Society</i> , 2019 , 39, 396-401	6	20
385	Stabilized antiferroelectricity in xBiScO ₃ -(1-x)NaNbO ₃ lead-free ceramics with established double hysteresis loops. <i>Applied Physics Letters</i> , 2018 , 112, 092905	3.4	35

384	Introducing a ZnO/BT/PE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700902	3.5	29
383	Microstructures and electrical properties of V ₂ O ₅ and carbon-nanofiber composites fabricated by cold sintering process. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 025702	1.4	13
382	Formation of structural defects and strain in electrodegraded Fe-doped SrTiO ₃ crystals due to oxygen vacancy migration. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2545-2561	3.8	14
381	Bimodal porous carbon electrodes derived from polyfurfuryl alcohol/phloroglucinol for ionic liquid based electrical double layer capacitors. <i>Journal of Materials Research</i> , 2018 , 33, 1189-1198	2.5	3
380	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. <i>APL Materials</i> , 2018 , 6, 016101	5.7	36
379	ReaxFF molecular dynamics simulation of intermolecular structure formation in acetic acid-water mixtures at elevated temperatures and pressures. <i>Journal of Chemical Physics</i> , 2018 , 148, 164506	3.9	18
378	Contrasting energy efficiency in various ceramic sintering processes. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1018-1029	6	32
377	Reactive intermediate phase cold sintering in strontium titanate.. <i>RSC Advances</i> , 2018 , 8, 20372-20378	3.7	16
376	Cold Sintering Na ₂ Mo ₂ O ₇ Ceramic with Poly(ether imide) (PEI) Polymer to Realize High-Performance Composites and Integrated Multilayer Circuits. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3837-3844	5.6	21
375	High-Voltage Stability of Ionic-Liquid-Based Electrochemical Double Layer Capacitors with a Bimodal Porous Carbon Electrode. <i>ChemElectroChem</i> , 2018 , 5, 3460-3467	4.3	2
374	Recent Progress in Applications of the Cold Sintering Process for Ceramic/Polymer Composites. <i>Advanced Functional Materials</i> , 2018 , 28, 1801724	15.6	56
373	Development of a ReaxFF reactive force field for lithium ion conducting solid electrolyte LiAlTi(PO) ₄ (LATP). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22134-22147	3.6	14
372	Cold sintering approach to fabrication of high rate performance binderless LiFePO ₄ cathode with high volumetric capacity. <i>Scripta Materialia</i> , 2018 , 146, 267-271	5.6	28
371	Flexible robust binder-free carbon nanotube membranes for solid state and microcapacitor application. <i>Nanotechnology</i> , 2018 , 29, 035605	3.4	3
370	ReaxFF Molecular Dynamics Study on the Influence of Temperature on Adsorption, Desorption, and Decomposition at the Acetic Acid/Water/ZnO(101 0) Interface Enabling Cold Sintering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37717-37724	9.5	25
369	Raman spectroscopy study of reduced strontium barium niobate (SBN61) and hints of supergrowth or intergrowth structures. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1849-1859	2.3	3
368	Cold Sintering of a Covalently Bonded MoS ₂ /Graphite Composite as a High Capacity Li bn Electrode. <i>ChemNanoMat</i> , 2018 , 4, 1088-1094	3.5	7
367	Detection of Nanoscale Structural Defects in Degraded Fe-Doped SrTiO ₃ by Ultrafast Photoacoustic Waves. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12864-12868	3.8	7

366	Life cycle assessment and environmental profile evaluation of lead-free piezoelectrics in comparison with lead zirconate titanate. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4922-4938	6	37
365	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. <i>Advanced Materials</i> , 2018 , 30, e1801846	10.4	
364	Probing electrocolored Fe-doped SrTiO ₃ bulks using optical second harmonic generation. <i>Acta Materialia</i> , 2017 , 126, 520-527	8.4	10
363	Cold sintering process for 8 mol%Y ₂ O ₃ -stabilized ZrO ₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2303-2308	6	43
362	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, 064107	2.5	11
361	High-temperature thermoelectric characterization of filled strontium barium niobates: power factors and carrier concentrations. <i>Journal of Materials Research</i> , 2017 , 32, 1160-1167	2.5	6
360	Dielectric relaxation and localized electron hopping in colossal dielectric (Nb,In)-doped TiO rutile nanoceramics. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8568-8574	3.6	33
359	Cold sintering process of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ solid electrolyte. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2123-2135	3.8	62
358	Cold sintering and co-firing of a multilayer device with thermoelectric materials. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3488-3496	3.8	37
357	High Power Interdigitated Carbon Nanotube Based Micro-Capacitors. <i>MRS Advances</i> , 2017 , 2, 413-418	0.7	
356	Degradation and recovery of iron doped barium titanate single crystals via modulus spectroscopy and thermally stimulated depolarization current. <i>Journal of Applied Physics</i> , 2017 , 121, 145106	2.5	11
355	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803	3.8	17
354	Modification of the Schottky barrier height at the RuO ₂ cathode during resistance degradation of Fe-doped SrTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4590-4601	3.8	13
353	Movers, shakers, and storers of charge: The legacy of ferroelectricians L. Eric Cross and Robert E. Newnham. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3346-3359	3.8	12
352	Nonlinear optical detections of structural distortions at degraded Fe-doped SrTiO ₃ interfaces. <i>Materials Chemistry and Physics</i> , 2017 , 198, 131-136	4.4	11
351	Current progress and perspectives of applying cold sintering process to ZrO ₂ -based ceramics. <i>Scripta Materialia</i> , 2017 , 136, 141-148	5.6	37
350	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	6	38
349	LiCO-Coated Ni Particles for the Inner Electrodes of Multilayer Ceramic Capacitors: Evaluation of Lifetime. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 585-591	9.5	4

348	Prediction of Charge-Discharge and Impedance Characteristics of Electric Double-Layer Capacitors Using Porous Electrode Theory. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2899-A2913	3.9	13
347	Cold sintering: Current status and prospects. <i>Journal of Materials Research</i> , 2017 , 32, 3205-3218	2.5	119
346	Low temperature co-fired multilayer piezoelectric transformers for high power applications. <i>Materials and Design</i> , 2017 , 132, 512-517	8.1	10
345	Considering the possibility of bonding utilizing cold sintering for ceramic adhesives. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5421-5432	3.8	11
344	Cold sintering of a Li-ion cathode: LiFePO ₄ -composite with high volumetric capacity. <i>Ceramics International</i> , 2017 , 43, 15370-15374	5.1	42
343	Unexpected significant increase in bulk conductivity of a dielectric arising from charge injection. <i>Applied Physics Letters</i> , 2017 , 110, 262902	3.4	11
342	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	3.8	45
341	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	3.8	96
340	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	3.8	120
339	Preserving nickel electrode conductivity during sintering process using lithium carbonate coatings. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1448-1454	5.7	
338	Filled oxygen-deficient strontium barium niobates. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 774-782	3.8	6
337	Determination of electrical properties of degraded mixed ionic conductors: Impedance studies with applied dc voltage. <i>Journal of Applied Physics</i> , 2017 , 122, 244101	2.5	10
336	Utilizing the Cold Sintering Process for Flexible Printable Electroceramic Device Fabrication. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3202-3204	3.8	55
335	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie</i> , 2016 , 128, 11629-11633	3.6	30
334	Cold Sintering Process of Composites: Bridging the Processing Temperature Gap of Ceramic and Polymer Materials. <i>Advanced Functional Materials</i> , 2016 , 26, 7115-7121	15.6	143
333	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	3.8	171
332	Redesigning Multilayer Ceramic Capacitors by Preservation of Electrode Conductivity and Localized Doping. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31449-31459	9.5	5
331	Effect of multi-domain structure on ionic transport, electrostatics, and current evolution in BaTiO ₃ ferroelectric capacitor. <i>Acta Materialia</i> , 2016 , 112, 224-230	8.4	16

330	Study on the behavior of atomic layer deposition coatings on a nickel substrate at high temperature. <i>Nanotechnology</i> , 2016 , 27, 245701	3.4	8
329	A charge-based deep level transient spectroscopy measurement system and characterization of a ZnO-based varistor and a Fe-doped SrTiO ₃ dielectric. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 0266014	1.4	9
328	Defect chemistry and resistance degradation in Fe-doped SrTiO ₃ single crystal. <i>Acta Materialia</i> , 2016 , 108, 229-240	8.4	64
327	Base Metal Co-Fired Multilayer Piezoelectrics. <i>Actuators</i> , 2016 , 5, 8	2.4	31
326	Investigation of Electric Field-Induced Structural Changes at Fe-Doped SrTiO ₃ /Anode Interfaces by Second Harmonic Generation. <i>Materials</i> , 2016 , 9,	3.5	9
325	Low Temperature Ionic Conductivity of an Acceptor-Doped Perovskite: II. Impedance of Single-Crystal BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3360-3366	3.8	24
324	Low-Temperature Ionic Conductivity of an Acceptor-Doped Perovskite: I. Impedance of Single-Crystal SrTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3350-3359	3.8	36
323	The Effects of Low Oxygen Activity Conditions on the Phase Equilibria and Cation Occupancy of Strontium Barium Niobate. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3435-3442	3.8	11
322	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	3.8	34
321	Observation of structural inhomogeneity at degraded Fe-doped SrTiO ₃ interfaces. <i>Applied Physics Letters</i> , 2016 , 109, 031602	3.4	12
320	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, 204102	2.5	44
319	Excimer laser assisted re-oxidation of BaTiO ₃ thin films on Ni metal foils. <i>Journal of Applied Physics</i> , 2016 , 119, 024106	2.5	3
318	Impedance spectroscopy utilized to study the spatial distribution of conductivity within capacitors during operation 2016 ,		5
317	Valence and electronic trap states of manganese in SrTiO ₃ -based colossal permittivity barrier layer capacitors. <i>RSC Advances</i> , 2016 , 6, 92127-92133	3.7	6
316	Hydrothermal-Assisted Cold Sintering Process: A New Guidance for Low-Temperature Ceramic Sintering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20909-15	9.5	114
315	Coating Ni particles to preserve their conductivity during sintering in oxidizing atmospheres. <i>Chemical Engineering Journal</i> , 2016 , 304, 1009-1019	14.7	5
314	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11457-61	16.4	229
313	The relation of electrical conductivity profiles and modulus data using the example of STO:Fe single crystals: A path to improve the model of resistance degradation. <i>Acta Materialia</i> , 2016 , 117, 252-261	8.4	34

312	Protocol for Ultralow-Temperature Ceramic Sintering: An Integration of Nanotechnology and the Cold Sintering Process. <i>ACS Nano</i> , 2016 , 10, 10606-10614	16.7	101
311	Lead-free antiferroelectric: $x\text{CaZrO}_3-(1-x)\text{NaNbO}_3$ system ($0 \leq x \leq 1.0$). <i>Dalton Transactions</i> , 2015 , 44, 10763-72	4.3	160
310	Analysis of the degradation of BaTiO_3 resistivity due to hydrogen ion incorporation: Impedance spectroscopy and diffusion analysis. <i>Acta Materialia</i> , 2015 , 96, 344-351	8.4	11
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