

Matias Acosta

List of Publications by Citations

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42
papers

2,689
citations

23
h-index

48
g-index

48
ext. papers

3,098
ext. citations

5.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
42	Giant electric-field-induced strains in lead-free ceramics for actuator applications –status and perspective. <i>Journal of Electroceramics</i> , 2012 , 29, 71-93	1.5	674
41	BaTiO ₃ -based piezoelectrics: Fundamentals, current status, and perspectives. <i>Applied Physics Reviews</i> , 2017 , 4, 041305	17.3	487
40	Relationship between electromechanical properties and phase diagram in the Ba(Zr _{0.2} Ti _{0.8})O ₃ –(Ba _{0.7} Ca _{0.3})TiO ₃ lead-free piezoceramic. <i>Acta Materialia</i> , 2014 , 80, 48-55	8.4	149
39	Temperature- and Frequency-Dependent Properties of the 0.75Bi _{1/2} Na _{1/2} TiO ₃ –0.25SrTiO ₃ Lead-Free Incipient Piezoceramic. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1937-1943	3.8	127
38	High-temperature dielectrics in CaZrO ₃ -modified Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 4327-4334	6	127
37	Strong electrocaloric effect in lead-free 0.65Ba(Zr _{0.2} Ti _{0.8})O ₃ –0.35(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics obtained by direct measurements. <i>Applied Physics Letters</i> , 2015 , 106, 062901	3.4	114
36	Origin of the large piezoelectric activity in (1–x)Ba(Zr _{0.2} Ti _{0.8})O ₃ –x(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics. <i>Physical Review B</i> , 2015 , 91,	3.3	103
35	Core–shell Lead–free Piezoelectric Ceramics: Current Status and Advanced Characterization of the Bi _{1/2} Na _{1/2} TiO ₃ –SrTiO ₃ System. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3405-3422	3.8	97
34	Criticality: Concept to Enhance the Piezoelectric and Electrocaloric Properties of Ferroelectrics. <i>Advanced Functional Materials</i> , 2016 , 26, 7326-7333	15.6	71
33	Formation of the core–shell microstructure in lead-free Bi _{1/2} Na _{1/2} TiO ₃ –SrTiO ₃ piezoceramics and its influence on the electromechanical properties. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1009-1016	6	60
32	Thermal-stability of electric field-induced strain and energy storage density in Nb-doped BNKT-ST piezoceramics. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2511-2519	6	58
31	Electrocaloric Effect in Ba(Zr,Ti)O ₃ –(Ba,Ca)TiO ₃ Ceramics Measured Directly. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 4022-4030	3.8	51
30	Tailoring the Piezoelectric and Relaxor Properties of (Bi _{1/2} Na _{1/2})TiO ₃ –BaTiO ₃ via Zirconium Doping. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2881-2886	3.8	41
29	Mechanical constitutive behavior and exceptional blocking force of lead-free BZT–xBCT piezoceramics. <i>Journal of Applied Physics</i> , 2014 , 115, 204107	2.5	37
28	In situ electric field induced domain evolution in Ba(Zr _{0.2} Ti _{0.8})O ₃ –0.3(Ba _{0.7} Ca _{0.3})TiO ₃ ferroelectrics. <i>Applied Physics Letters</i> , 2014 , 105, 112904	3.4	36
27	Polarization dynamics across the morphotropic phase boundary in Ba(Zr _{0.2} Ti _{0.8})O ₃ –x(Ba _{0.7} Ca _{0.3})TiO ₃ ferroelectrics. <i>Applied Physics Letters</i> , 2013 , 103, 152904	3.4	34
26	Wide Compositional Range In Situ Electric Field Investigations on Lead-Free Ba(Zr _{0.2} Ti _{0.8})O ₃ –x(Ba _{0.7} Ca _{0.3})TiO ₃ Piezoceramic. <i>Physical Review Applied</i> , 2015 , 3,	4.3	32

25	Stress-dependent electromechanical properties of doped (Ba _{1-x} Ca _x)(Zr _y Ti _{1-y})O ₃ . <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1209-1217	6	32
24	High piezoelectricity by multiphase coexisting point: Barium titanate derivatives. <i>MRS Bulletin</i> , 2018 , 43, 595-599	3.2	30
23	Designing properties of (Na _{1/2} Bix)TiO ₃ -based materials through A-site non-stoichiometry. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 738-744	7.1	29
22	Mechanisms of electromechanical response in (1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ -x(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics. <i>Applied Physics Letters</i> , 2015 , 107, 142906	3.4	27
21	Nanostructured Materials and Interfaces for Advanced Ionic Electronic Conducting Oxides. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900462	4.6	23
20	Polarization dynamics variation across the temperature- and composition-driven phase transitions in the lead-free Ba(Zr _{0.2} Ti _{0.8})O ₃ -x(Ba _{0.7} Ca _{0.3})TiO ₃ ferroelectrics. <i>Journal of Applied Physics</i> , 2015 , 118, 134104	2.5	23
19	Piezoelectricity and rotostriction through polar and non-polar coupled instabilities in bismuth-based piezoceramics. <i>Scientific Reports</i> , 2016 , 6, 28742	4.9	22
18	Temperature-dependent R-curve behavior of the lead-free ferroelectric 0.615Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.385(Ba _{0.7} Ca _{0.3})TiO ₃ ceramic. <i>Engineering Fracture Mechanics</i> , 2015 , 144, 68-77	4.2	18
17	Electric field-temperature phase diagram of sodium bismuth titanate-based relaxor ferroelectrics. <i>Journal of Materials Science</i> , 2018 , 53, 9393-9400	4.3	18
16	Influence of composition on the unipolar electric fatigue of Ba(Zr _{0.2} Ti _{0.8})O ₃ -(Ba _{0.7} Ca _{0.3})TiO ₃ lead-free piezoceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4699-4709	3.8	17
15	Tailoring ergodicity through selective A-site doping in the Bi _{1/2} Na _{1/2} TiO ₃ -Bi _{1/2} K _{1/2} TiO ₃ system. <i>Journal of Applied Physics</i> , 2015 , 117, 134106	2.5	17
14	Revealing the core-shell interactions of a giant strain relaxor ferroelectric 0.75BiNaTiO-0.25SrTiO. <i>Scientific Reports</i> , 2016 , 6, 36910	4.9	17
13	Strain Mechanisms in Lead-Free Ferroelectrics for Actuators. <i>Springer Theses</i> , 2016 ,	0.1	16
12	Temperature dependent polarization reversal mechanism in 0.94(Bi _{1/2} Na _{1/2})TiO ₃ -0.06Ba(Zr _{0.02} Ti _{0.98})O ₃ relaxor ceramics. <i>Applied Physics Letters</i> , 2015 , 107, 232906	2.4	16
11	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. <i>Nature Communications</i> , 2021 , 12, 2660	17.4	15
10	Cytotoxicity, chemical stability, and surface properties of ferroelectric ceramics for biomaterials. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 440-449	3.8	14
9	Oxygen-vacancy-mediated dielectric property in perovskite Eu _{0.5} Ba _{0.5} TiO ₃ -epitaxial thin films. <i>Applied Physics Letters</i> , 2018 , 112, 182906	3.4	12
8	Influence of B-Site Disorder on the Properties of Unpoled Bi _{1/2} Na _{1/2} TiO ₃ -0.06Ba(Zr _x Ti _{1-x})O ₃ Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2801-2808	3.8	10

7	Enabling nanoscale flexoelectricity at extreme temperature by tuning cation diffusion. <i>Nature Communications</i> , 2018 , 9, 4445	17.4	9
6	Enhancing electromechanical properties of lead-free ferroelectrics with bilayer ceramic/ceramic composites. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 997-1006	3.2	6
5	Revealing the role of local stress on the depolarization of BNT-BT-based relaxors. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
4	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4117-4125	9.5	5
3	Multi-analyser detector (MAD) for high-resolution and high-energy powder X-ray diffraction. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 146-157	2.4	4
2	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400 °C in B-site exposed (La,Sr)(Co,Fe)O ₃ thin-films. <i>Journal of Power Sources</i> , 2022 , 523, 230983	8.9	0
1	A typology of advisory bodies in legislatures and research perspectives. <i>Journal of Legislative Studies</i> , <i>The</i> ,1-26	0.4	