Hana UrÅ¡iÄ•

List of Publications by Year
in descending order

107 papers	2,448 citations	218381 26 h-index	233125 45 g-index
107 all docs	107 docs citations	107 times ranked	2589 citing authors

#	Article	IF	Citations
1	Domain-wall conduction in ferroelectric BiFeO3 controlled by accumulation of charged defects. Nature Materials, 2017, 16, 322-327.	13.3	288
2	Influence of the critical point on the electrocaloric response of relaxor ferroelectrics. Journal of Applied Physics, 2011, 110, .	1.1	190
3	Bulk relaxor ferroelectric ceramics as a working body for an electrocaloric cooling device. Applied Physics Letters, 2015, 106, .	1.5	135
4	Mobile Domain Walls as a Bridge between Nanoscale Conductivity and Macroscopic Electromechanical Response. Advanced Functional Materials, 2015, 25, 2099-2108.	7.8	80
5	Lead-free nanocomposite piezoelectric nanogenerator film for biomechanical energy harvesting. Nano Energy, 2021, 81, 105661.	8.2	79
6	Large electrocaloric effect in grain-size-engineered 0.9Pb(Mg 1/3 Nb 2/3)O 3 â€“0.1PbTiO 3. Journal of the European Ceramic Society, 2016, 36, 75-80.	2.8	75
7	Direct Measurements of the Giant Electrocaloric Effect in Soft and Solid Ferroelectric Materials. Ferroelectrics, 2010, 405, 26-31.	0.3	73
8	Dielectric, ferroelectric, piezoelectric, and electrostrictive properties of K0.5Na0.5NbO3 single crystals. Journal of Applied Physics, 2010, 107, .	1.1	71
9	Multiscale study of ferroelectricâ€“relaxor crossover in BaSnxTi1â^’xO3 ceramics. Journal of the European Ceramic Society, 2014, 34, 3661-3674.	2.8	68
10	Intrinsic energy band alignment of functional oxides. Physica Status Solidi - Rapid Research Letters, 2014, 8, 571-576.	1.2	60
11	Dual strain mechanisms in a lead-free morphotropic phase boundary ferroelectric. Scientific Reports, 2016, 6, 19630.	1.6	57
12	Direct Measurements of the Electrocaloric Effect in Bulk PbMg_{1/3}Nb_{2/3}O₃(PMN) Ceramics. Ferroelectrics, 2011, 421, 103-107.	0.3	47
13	Domain-wall pinning and defect ordering in BiFeO3 probed on the atomic and nanoscale. Nature Communications, 2020, 11, 1762.	5.8	47
14	Synthesis of a Liâ€•and Taâ€Modified (K,Na)NbO₃ Solid Solution by Mechanochemical Activation. Journal of the American Ceramic Society, 2008, 91, 3789-3791.	1.9	44
15	Multilayer 0.9Pb(Mg 1/3 Nb 2/3)O 3 â€“0.1PbTiO 3 elements for electrocaloric cooling. Journal of the European Ceramic Society, 2017, 37, 599-603.	2.8	43
16	Piezoelectric response of BiFeO3 ceramics at elevated temperatures. Applied Physics Letters, 2016, 109, .	1.5	42
17	Temperature dependent piezoelectric response and strainâ€“electric-field hysteresis of rare-earth modified bismuth ferrite ceramics. Journal of Materials Chemistry C, 2016, 4, 7859-7868.	2.7	40
18	Connecting the Multiscale Structure with Macroscopic Response of Relaxor Ferroelectrics. Advanced Functional Materials, 2020, 30, 2006823.	7.8	34

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19	Influence of the substrate on the phase composition and electrical properties of 0.65PMNâ€“0.35PT thick films. Journal of the European Ceramic Society, 2010, 30, 2081-2092.	2.8	31
20	Tailoring the Shape, Size, Crystal Structure, and Preferential Growth Orientation of BaTiO₃ Plates Synthesized through a Topochemical Conversion Process. Crystal Growth and Design, 2017, 17, 3210-3220.	1.4	31
21	Domain wall-grain boundary interactions in polycrystalline Pb(Zr0.7Ti0.3)O3 piezoceramics. Journal of the European Ceramic Society, 2020, 40, 3965-3973.	2.8	30
22	Holographic scattering in photopolymer-dispersed liquid crystals. Applied Physics Letters, 2005, 87, 151101.	1.5	28
23	Field-induced polarization rotation and phase transitions in <mml:math		

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37	Ba1-xSrxTiO3 plates: Synthesis through topochemical conversion, piezoelectric and ferroelectric characteristics. Ceramics International, 2018, 44, 21406-21414.	2.3	18
38	Tailoring the electrical conductivity and hardening in BiFeO3 ceramics. Journal of the European Ceramic Society, 2020, 40, 5483-5493.	2.8	18
39	Microstructural and electrical characterisation of PZT thick films on LTCC substrates. Journal of the European Ceramic Society, 2008, 28, 1839-1844.	2.8	17
40	Large plastic deformability of bulk ferroelectric KNbO3 single crystals. Journal of the European Ceramic Society, 2021, 41, 4098-4107.	2.8	17
41	Design of lead-free BCZT-based ceramics with enhanced piezoelectric energy harvesting performances. Physical Chemistry Chemical Physics, 2022, 24, 6026-6036.	1.3	16
42	The Effect of Poling on the Properties of 0.65Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.35PbTiO₃ Ceramics. Japanese Journal of Applied Physics, 2011, 50, 035801.	0.8	15
43	Microstructure-dependent leakage-current properties of solution-derived (K0.5Na0.5)NbO3 thin films. Journal of the European Ceramic Society, 2015, 35, 3507-3511.	2.8	15
44	Unusual structural-disorder stability of mechanochemically derived-Pb(Sc0.5Nb0.5)O3. Journal of Materials Chemistry C, 2015, 3, 10309-10315.	2.7	15
45	Electrocaloric properties of 0.7Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.3PbTiO₃ceramics with different grain sizes. Advances in Applied Ceramics, 2016, 115, 77-80.	0.6	14
46	Direct observation of the stress-induced domain structure in lead-free (Na1/2Bi1/2)TiO3-based ceramics. Applied Physics Letters, 2019, 114, .	1.5	14
47	The electrical properties of chemically obtained barium titanate improved by attrition milling. Journal of Sol-Gel Science and Technology, 2013, 67, 267-272.	1.1	13
48	Integration of BiFeO3 thick films onto ceramic and metal substrates by screen printing. Journal of the European Ceramic Society, 2015, 35, 4163-4171.	2.8	13
49	The electrostrictive effect in ferroelectric 0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3 thick films. Journal of Applied Physics, 2008, 103, .	1.1	12
50	The influence of thermal stresses on the phase composition of 0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3 thick films. Journal of Applied Physics, 2011, 109, 014101.	1.1	12
51	Domain wall conductivity as the origin of enhanced domain wall dynamics in polycrystalline BiFeO3. Journal of Applied Physics, 2020, 128, .	1.1	12
52	A flexible self-poled piezocomposite nanogenerator based on H₂(Zr_{0.1}Ti_{0.9})₃O₇ nanowires and polylactic acid biopolymer. Sustainable Energy and Fuels, 2022, 6, 1983-1991.	2.5	12
53	Numerical modelling of ceramic mems structures with piezoceramic thick films. Journal of Electroceramics, 2008, 20, 3-9.	0.8	11
54	Self-Poling of BiFeO₃ Thick Films. ACS Applied Materials & Interfaces, 2016, 8, 19626-19634.	4.0	11

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55	High-performance PMNßPT thick films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2205-2212.	1.7	10
56	Synthesis of 0.65<scp><scp>Pb</scp></scp>(<scp><scp>Mg</scp></scp>_{1/3}Nb_{2/3})<scp><scp>O</scp></scp>₃ by Controlled Agglomeration of Precursor Particles. Journal of the American Ceramic Society, 2012, 95, 1858-1865.	1.9	10
57	Structural peculiarities of 0.67â€¯Pb(Mg1/3Nb2/3)O3â€“0.33â€¯PbTiO3 thin films grown directly on SrTiO3 substrates. Journal of the European Ceramic Society, 2018, 38, 4453-4462.	2.8	10
58	Improving the multicaloric properties of Pb(Fe0.5Nb0.5)O3 by controlling the sintering conditions and doping with manganese. Journal of the European Ceramic Society, 2019, 39, 4122-4130.	2.8	10
59	Effect of electric field and temperature on holographic scattering from holographic polymer-dispersed liquid crystals. Optical Materials, 2007, 29, 1416-1422.	1.7	9
60	PZT thick films on different ceramic substrates; piezoelectric measurements. Journal of Electroceramics, 2008, 20, 11-16.	0.8	9
61	Distinctive contributions to dielectric response of relaxor ferroelectric lead scandium niobate ceramic system. Physica Status Solidi (B): Basic Research, 2013, 250, 2232-2236.	0.7	9
62	Percolation in the dielectric function of Pb(Zr, Ti)O3â€“ Pb2Ru2O6.5ferroelectric â€“ metal composites. Journal Physics D: Applied Physics, 2014, 47, 495301.	1.3	9
63	The effect of calcium zirconate modifications on the microstructure and functional properties of sodium niobate thin films prepared by chemical solution deposition. Journal of the European Ceramic Society, 2019, 39, 2325-2330.	2.8	9
64	Magnetic contributions in multiferroic gadolinium modified bismuth ferrite ceramics. Scripta Materialia, 2020, 188, 233-237.	2.6	9
65	Strengthened relaxor behavior in (1â€“x)Pb(Fe_{0.5}Nb_{0.5})O₃â€“xBiFeO₃. Journal of Materials Chemistry C, 2020, 8, 3452-3462.	2.7	9
66	Effect of thermal annealing on dielectric and ferroelectric properties of aerosol-deposited 0.65Pb(Mg1/3Nb2/3)O3-0.35PbTiO3 thick films. Applied Physics Letters, 2022, 120, .	1.5	9
67	Anelastic relaxor behavior of Pb(Mg1/3Nb2/3)O3. Applied Physics Letters, 2013, 103, 072904.	1.5	8
68	Electrophoretic deposition and properties of strontium-doped sodium potassium niobate thick films. Journal of the European Ceramic Society, 2017, 37, 5305-5313.	2.8	8
69	Ferroelectric domain configurations in 0.65Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.35PbTiO₃thick films determined by piezoresponse force microscopy. Journal Physics D: Applied Physics, 2012, 45, 265402.	1.3	7
70	Growth mode and strain effect on relaxor ferroelectric domains in epitaxial 0.67Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.33PbTiO₃/SrRuO₃ heterostructures. RSC Advances, 2021, 11, 1222-1232.	1.7	7
71	Enhanced Electromechanical Response and Thermal Stability of 0.93(Na_{1/2}Bi_{1/2})TiO₃â€0.07BaTiO₃ Through Aerosol Deposition of Base Metal Electrodes. Advanced Materials Interfaces, 2021, 8, 2100309.	1.9	7
72	Flexible Energy-Storage Ceramic Thick-Film Structures with High Flexural Fatigue Endurance. ACS Applied Energy Materials, 2022, 5, 6896-6902.	2.5	7

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73	Linear thermal expansion coefficients of relaxor-ferroelectric 0.57Pb(Sc1/2Nb1/2)O3â€“0.43PbTiO3 ceramics in a wide temperature range. Journal of the European Ceramic Society, 2013, 33, 2167-2171.	2.8	6
74	Complex domain structure in polycrystalline Pb(Sc_{0.5}Nb_{0.5})O₃. Journal Physics D: Applied Physics, 2016, 49, 115304.	1.3	6
75	Effects of strontium doping on microstructure and functional properties of solution-derived potassium sodium niobate thin films. Processing and Application of Ceramics, 2020, 14, 231-241.	0.4	6
76	Multifunctional energy storage and piezoelectric properties of 0.65Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.35PbTiO₃ thick films on stainless-steel substrates. JPhys Energy, 2022, 4, 024004.	2.3	6
77	Influence of the sintering conditions on the properties of 0.57PSNâ€“0.43PT ceramics prepared from mechanochemically activated powder. Journal of the European Ceramic Society, 2013, 33, 795-803.	2.8	5
78	Electrocaloric Response in Substrate-Free PMN-0.30PT Thick Films. Ferroelectrics, 2014, 465, 1-6.	0.3	5
79	Far infrared and Raman response in tetragonal PZT ceramic films. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 219-224.	0.9	5
80	Macroscopic polarization in the nominally ergodic relaxor state of lead magnesium niobate. Applied Physics Letters, 2020, 117, .	1.5	5
81	Pb(Fe_{0.5}Nb_{0.5})O₃â€“BiFeO₃-based multicalorics with room-temperature ferroic anomalies. Journal of Materials Chemistry C, 2020, 8, 11282-11291.	2.7	5
82	Microstructure evolution and electromechanical properties of (K,Na) NbO₃â€based thick films. Journal of the American Ceramic Society, 2020, 103, 6677-6689.	1.9	5
83	Stress- and frequency-dependent properties of relaxor-like sodium bismuth titanate. Physical Review B, 2021, 103, .	1.1	5
84	Influence of Synthesis-Related Microstructural Features on the Electrocaloric Effect for 0.9Pb(Mg1/3Nb2/3)O3â€“0.1PbTiO3 Ceramics. Crystals, 2021, 11, 372.	1.0	5
85	Investigating the Feasibility of Preparing Metalâ€“Ceramic Multi-Layered Composites Using Only the Aerosol-Deposition Technique. Materials, 2021, 14, 4548.	1.3	5
86	Ferroelectric bismuth-titanate nanoplatelets and nanowires with a new crystal structure. Nanoscale, 2022, 14, 3537-3544.	2.8	5
87	PZT thick films for pressure sensors: Characterisation of materials and devices. , 2008, , .		4
88	Piezoelectric thick films on LTCC substrates. , 2010, , .		4
89	0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3Thick Films for High-Frequency Piezoelectric Transducer Applications. Japanese Journal of Applied Physics, 2013, 52, 055502.	0.8	4
90	Structure and Dynamics of Ferroelectric Domains in Polycrystalline Pb(Fe1/2Nb1/2)O3. Materials, 2019, 12, 1327.	1.3	4

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91	Customization of Sn₂P₂S₆ ferroelectrics by post-growth solid-state diffusion doping. Journal of Materials Chemistry C, 2020, 8, 9975-9985.	2.7	4
92	Ferroelectric Thin Films for Energy Conversion Applications. , 2012, , 293-313.		4
93	High radiation tolerance of electrocaloric (1-x)Pb(Mg1/3Nb2/3)O3â€“xPbTiO3. Journal of the European Ceramic Society, 2022, 42, 5575-5583.	2.8	4
94	BiFeO 3 ceramics and thick films. , 2018, , 515-525.		3
95	Fabrication of porous thick films using roomâ€temperature aerosol deposition. Journal of the American Ceramic Society, 2020, 103, 43-47.	1.9	3
96	Inkjet Printing of Piezoelectric Lead Magnesium Niobate-Lead Titanate Thick Films. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2013, 2013, 000226-000231.	0.2	3
97	Screen Printed Copper and Tantalum Modified Potassium Sodium Niobate Thick Films on Platinized Alumina Substrates. Materials, 2021, 14, 7137.	1.3	3
98	Temperature-dependent dielectric anomalies in powder aerosol deposited ferroelectric ceramic films. Journal of Materiomics, 2022, 8, 1239-1250.	2.8	3
99	An investigation of thick-film materials for temperature and pressure sensors on self-constrained LTCC substrates. , 2008, , .		2
100	Screen-printed BiFeO3 thick films on noble metal foils. Ferroelectrics, 2016, 496, 196-203.	0.3	2
101	Chemical Solution Deposition of Barium Titanate Thin Films with Ethylene Glycol as Solvent for Barium Acetate. Molecules, 2022, 27, 3753.	1.7	2
102	Room temperature deposition of freestanding BaTiO3 films: temperature-induced irreversible structural and chemical relaxation. Journal of Materials Science, 2022, 57, 13264-13286.	1.7	2
103	The Effect of Poling on the Properties of 0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3Ceramics. Japanese Journal of Applied Physics, 2011, 50, 035801.	0.8	1
104	Relaxor-ferroelectric PMNâ€“PT Thick Films. , 0, , .		0
105	Electrocaloric properties of 0.7Pb(Mg<inf>1/3</inf>Nb<inf>2/3</inf>)O<inf>3</inf>-0.3PbTiO<inf>3</inf> ceramics. , 2013, , .		0
106	Atomically Resolved Local Structure of Conductive Domain Walls in Ferroelectric BiFeO3.. Microscopy and Microanalysis, 2016, 22, 1828-1829.	0.2	0
107	Implications of Point Defects on the Atomic Structure of Domain Walls in BiFeO3. Microscopy and Microanalysis, 2019, 25, 2346-2347.	0.2	0