

Hana UrÅ;iÄ•

List of Publications by Year in descending order

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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	A flexible self-poled piezocomposite nanogenerator based on $\text{H}_{2\text{O}}(\text{Zr}_{0.1}\text{Ti}_{0.9})_{3\text{O}}7$ nanowires and polylactic acid biopolymer. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1983-1991.	2.5	12
2	Design of lead-free BCZT-based ceramics with enhanced piezoelectric energy harvesting performances. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6026-6036.	1.3	16
3	Ferroelectric bismuth-titanate nanoplatelets and nanowires with a new crystal structure. <i>Nanoscale</i> , 2022, 14, 3537-3544.	2.8	5
4	Effect of thermal annealing on dielectric and ferroelectric properties of aerosol-deposited $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ thick films. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	9
5	Multifunctional energy storage and piezoelectric properties of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ thick films on stainless-steel substrates. <i>JPhys Energy</i> , 2022, 4, 024004.	2.3	6
6	Temperature-dependent dielectric anomalies in powder aerosol deposited ferroelectric ceramic films. <i>Journal of Materiomics</i> , 2022, 8, 1239-1250.	2.8	3
7	High radiation tolerance of electrocaloric $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}x\text{PbTiO}_3$. <i>Journal of the European Ceramic Society</i> , 2022, 42, 5575-5583.	2.8	4
8	Flexible Energy-Storage Ceramic Thick-Film Structures with High Flexural Fatigue Endurance. <i>ACS Applied Energy Materials</i> , 2022, 5, 6896-6902.	2.5	7
9	Chemical Solution Deposition of Barium Titanate Thin Films with Ethylene Glycol as Solvent for Barium Acetate. <i>Molecules</i> , 2022, 27, 3753.	1.7	2
10	Room temperature deposition of freestanding BaTiO_3 films: temperature-induced irreversible structural and chemical relaxation. <i>Journal of Materials Science</i> , 2022, 57, 13264-13286.	1.7	2
11	Lead-free nanocomposite piezoelectric nanogenerator film for biomechanical energy harvesting. <i>Nano Energy</i> , 2021, 81, 105661.	8.2	79
12	Growth mode and strain effect on relaxor ferroelectric domains in epitaxial $0.67\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.33\text{PbTiO}_3/\text{SrRuO}_3$ heterostructures. <i>RSC Advances</i> , 2021, 11, 1222-1232.	1.7	7
13	Dielectric and electro-mechanic nonlinearities in perovskite oxide ferroelectrics, relaxors, and relaxor ferroelectrics. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	19
14	Stress- and frequency-dependent properties of relaxor-like sodium bismuth titanate. <i>Physical Review B</i> , 2021, 103, .	1.1	5
15	Influence of Synthesis-Related Microstructural Features on the Electrocaloric Effect for $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.1\text{PbTiO}_3$ Ceramics. <i>Crystals</i> , 2021, 11, 372.	1.0	5
16	Enhanced Electromechanical Response and Thermal Stability of $0.93(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3\text{-}0.07\text{BaTiO}_3$ Through Aerosol Deposition of Base Metal Electrodes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100309.	1.9	7
17	Large plastic deformability of bulk ferroelectric KNbO_3 single crystals. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4098-4107.	2.8	17
18	Investigating the Feasibility of Preparing Metal-Ceramic Multi-Layered Composites Using Only the Aerosol-Deposition Technique. <i>Materials</i> , 2021, 14, 4548.	1.3	5

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19	Energy-storage-efficient 0.9Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.1PbTiO ₃ thick films integrated directly onto stainless steel. <i>Acta Materialia</i> , 2021, 221, 117403.	3.8	20
20	Screen Printed Copper and Tantalum Modified Potassium Sodium Niobate Thick Films on Platinized Alumina Substrates. <i>Materials</i> , 2021, 14, 7137.	1.3	3
21	Fabrication of porous thick films using room-temperature aerosol deposition. <i>Journal of the American Ceramic Society</i> , 2020, 103, 43-47.	1.9	3
22	Connecting the Multiscale Structure with Macroscopic Response of Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2020, 30, 2006823.	7.8	34
23	Macroscopic polarization in the nominally ergodic relaxor state of lead magnesium niobate. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	5
24	Pb(Fe _{0.5} Nb _{0.5})O ₃ –BiFeO ₃ -based multicalorics with room-temperature ferroic anomalies. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11282-11291.	2.7	5
25	Magnetic contributions in multiferroic gadolinium modified bismuth ferrite ceramics. <i>Scripta Materialia</i> , 2020, 188, 233-237.	2.6	9
26	Domain wall conductivity as the origin of enhanced domain wall dynamics in polycrystalline BiFeO ₃ . <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	12
27	Customization of Sn ₂ P ₂ S ₆ ferroelectrics by post-growth solid-state diffusion doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9975-9985.	2.7	4
28	Tailoring the electrical conductivity and hardening in BiFeO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5483-5493.	2.8	18
29	Strengthened relaxor behavior in (1-x)Pb(Fe _{0.5} Nb _{0.5})O ₃ –xBiFeO ₃ . <i>Journal of Materials Chemistry C</i> , 2020, 8, 3452-3462.	2.7	9
30	Microstructure evolution and electromechanical properties of (K,Na) NbO ₃ -based thick films. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6677-6689.	1.9	5
31	Domain-wall pinning and defect ordering in BiFeO ₃ probed on the atomic and nanoscale. <i>Nature Communications</i> , 2020, 11, 1762.	5.8	47
32	Domain wall-grain boundary interactions in polycrystalline Pb(Zr _{0.7} Ti _{0.3})O ₃ piezoceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3965-3973.	2.8	30
33	Effects of strontium doping on microstructure and functional properties of solution-derived potassium sodium niobate thin films. <i>Processing and Application of Ceramics</i> , 2020, 14, 231-241.	0.4	6
34	Implications of Point Defects on the Atomic Structure of Domain Walls in BiFeO ₃ . <i>Microscopy and Microanalysis</i> , 2019, 25, 2346-2347.	0.2	0
35	Improving the multicaloric properties of Pb(Fe _{0.5} Nb _{0.5})O ₃ by controlling the sintering conditions and doping with manganese. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4122-4130.	2.8	10
36	Structure and Dynamics of Ferroelectric Domains in Polycrystalline Pb(Fe _{1/2} Nb _{1/2})O ₃ . <i>Materials</i> , 2019, 12, 1327.	1.3	4

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37	Investigations of ferroelectric polycrystalline bulks and thick films using piezoresponse force microscopy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180782.	1.0	27
38	Electrocaloric fatigue of lead magnesium niobate mediated by an electric-field-induced phase transformation. Acta Materialia, 2019, 169, 275-283.	3.8	25
39	Direct observation of the stress-induced domain structure in lead-free (Na _{1/2} Bi _{1/2})TiO ₃ -based ceramics. Applied Physics Letters, 2019, 114, .	1.5	14
40	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
41	Multiscale field-induced structure of (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ â€“xPbTiO ₃ ceramics from combined techniques. Acta Materialia, 2018, 154, 14-24.	3.8	22
42	Ba _{1-x} Sr _x TiO ₃ plates: Synthesis through topochemical conversion, piezoelectric and ferroelectric characteristics. Ceramics International, 2018, 44, 21406-21414. Field-induced polarization rotation and phase transitions in $\langle m\bar{1}1\rangle$ math	2.3	18

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55	Temperature dependent piezoelectric response and strain-electric-field hysteresis of rare-earth modified bismuth ferrite ceramics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7859-7868.	2.7	40
56	A multicaloric material as a link between electrocaloric and magnetocaloric refrigeration. <i>Scientific Reports</i> , 2016, 6, 26629.	1.6	26
57	Electrocaloric properties of $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ \approx 0.3PbTiO_3 ceramics with different grain sizes. <i>Advances in Applied Ceramics</i> , 2016, 115, 77-80.	0.6	14
58	Large electrocaloric effect in grain-size-engineered $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ \approx 0.1PbTiO_3 . <i>Journal of the European Ceramic Society</i> , 2016, 36, 75-80.	2.8	75
59	Complex domain structure in polycrystalline $\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 115304.	1.3	6
60	Far infrared and Raman response in tetragonal PZT ceramic films. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2015, 54, 219-224.	0.9	5
61	Bulk relaxor ferroelectric ceramics as a working body for an electrocaloric cooling device. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	135
62	Mobile Domain Walls as a Bridge between Nanoscale Conductivity and Macroscopic Electromechanical Response. <i>Advanced Functional Materials</i> , 2015, 25, 2099-2108.	7.8	80
63	Microstructure-dependent leakage-current properties of solution-derived $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ thin films. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3507-3511.	2.8	15
64	Unusual structural-disorder stability of mechanochemically derived- $\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10309-10315.	2.7	15
65	Integration of BiFeO_3 thick films onto ceramic and metal substrates by screen printing. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4163-4171.	2.8	13
66	Percolation in the dielectric function of $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ \approx $\text{Pb}_2\text{Ru}_2\text{O}_6$ ferroelectric \approx metal composites. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495301.	1.3	9
67	$\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Textured Ceramics with High Piezoelectric Response by a Novel Templated Grain Growth Approach. <i>Journal of the American Ceramic Society</i> , 2014, 97, 420-426.	1.9	26
68	Electrocaloric Response in Substrate-Free PMN-0.30PT Thick Films. <i>Ferroelectrics</i> , 2014, 465, 1-6.	0.3	5
69	Intrinsic energy band alignment of functional oxides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 571-576.	1.2	60
70	Multiscale study of ferroelectric-relaxor crossover in $\text{BaSn}_x\text{Ti}_{1-x}\text{O}_3$ ceramics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3661-3674.	2.8	68
71	The electrical properties of chemically obtained barium titanate improved by attrition milling. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 267-272.	1.1	13
72	Anelastic relaxor behavior of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Applied Physics Letters</i> , 2013, 103, 072904.	1.5	8

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73	Electocaloric properties of $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.3\text{PbTiO}_3$ ceramics. , 2013, , .		0
74	Piezoelectric Properties of Inkjet-Printed Lead Zirconate Titanate Thick Films Confirmed by Piezoresponse Force Microscopy. Journal of the American Ceramic Society, 2013, 96, 2714-2717.	1.9	23
75	Linear thermal expansion coefficients of relaxor-ferroelectric $0.57\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3-0.43\text{PbTiO}_3$ ceramics in a wide temperature range. Journal of the European Ceramic Society, 2013, 33, 2167-2171.	2.8	6
76	Influence of the sintering conditions on the properties of $0.57\text{PSN}-0.43\text{PT}$ ceramics prepared from mechanochemically activated powder. Journal of the European Ceramic Society, 2013, 33, 795-803.	2.8	5
77	$0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.35\text{PbTiO}_3$ Thick Films for High-Frequency Piezoelectric Transducer Applications. Japanese Journal of Applied Physics, 2013, 52, 055502.	0.8	4
78	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
79	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
80	Ferroelectric domain configurations in $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.35\text{PbTiO}_3$ thick films determined by piezoresponse force microscopy. Journal Physics D: Applied Physics, 2012, 45, 265402.	1.3	7
81	Direct Measurements of the Electrocaloric Effect In Substrate-Free PMN-0.35pt Thick Films on a Platinum Layer. Integrated Ferroelectrics, 2012, 140, 161-165.	0.3	19
82	The Giant Electrocaloric Effect in Inorganic and Organic Ferroelectric Relaxor Systems. Ferroelectrics, 2012, 430, 98-102.	0.3	19
83	Synthesis of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.35\text{PbTiO}_3$ by Controlled Agglomeration of Precursor Particles. Journal of the American Ceramic Society, 2012, 95, 1858-1865.	1.9	10
84	Structural and electrical properties of $0.57\text{PSN}-0.43\text{PT}$ ceramics prepared by mechanochemical synthesis and sintered at low temperature. Journal of the European Ceramic Society, 2012, 32, 449-456.	2.8	23
85	Ferroelectric Thin Films for Energy Conversion Applications. , 2012, , 293-313.		4
86	Influence of the critical point on the electrocaloric response of relaxor ferroelectrics. Journal of Applied Physics, 2011, 110, .	1.1	190
87	Direct Measurements of the Electrocaloric Effect in Bulk $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ (PMN) Ceramics. Ferroelectrics, 2011, 421, 103-107.	0.3	47
88	The Effect of Poling on the Properties of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.35\text{PbTiO}_3$ Ceramics. Japanese Journal of Applied Physics, 2011, 50, 035801.	0.8	15
89	The influence of thermal stresses on the phase composition of $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.35\text{PbTiO}_3$ thick films. Journal of Applied Physics, 2011, 109, 014101.	1.1	12
90	$\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-\text{PbTiO}_3$ (PMN-PT) Material for Actuator Applications. Smart Materials Research, 2011, 2011, 1-6.	0.5	19

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91	The Effect of Poling on the Properties of 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.35PbTiO ₃ Ceramics. Japanese Journal of Applied Physics, 2011, 50, 035801.	0.8	1
92	Influence of the substrate on the phase composition and electrical properties of 0.65PMN–0.35PT thick films. Journal of the European Ceramic Society, 2010, 30, 2081-2092.	2.8	31
93	Dielectric, ferroelectric, piezoelectric, and electrostrictive properties of K _{0.5} Na _{0.5} NbO ₃ single crystals. Journal of Applied Physics, 2010, 107, .	1.1	71
94	Piezoelectric thick films on LTCC substrates. , 2010, , .		4
95	Direct Measurements of the Giant Electrocaloric Effect in Soft and Solid Ferroelectric Materials. Ferroelectrics, 2010, 405, 26-31.	0.3	73
96	High-performance PMN/PT thick films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2205-2212.	1.7	10
97	PZT thick films on different ceramic substrates; piezoelectric measurements. Journal of Electroceramics, 2008, 20, 11-16.	0.8	9
98	Numerical modelling of ceramic mems structures with piezoceramic thick films. Journal of Electroceramics, 2008, 20, 3-9.	0.8	11
99	A large-displacement 65Pb(Mg _{1/3} Nb _{2/3})O ₃ –35PbTiO ₃ /Pt bimorph actuator prepared by screen printing. Sensors and Actuators B: Chemical, 2008, 133, 699-704.	4.0	23
100	Microstructural and electrical characterisation of PZT thick films on LTCC substrates. Journal of the European Ceramic Society, 2008, 28, 1839-1844.	2.8	17
101	Synthesis of a Li- and Ta-Modified (K,Na)NbO ₃ Solid Solution by Mechanochemical Activation. Journal of the American Ceramic Society, 2008, 91, 3789-3791.	1.9	44
102	The electrostrictive effect in ferroelectric 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.35PbTiO ₃ thick films. Journal of Applied Physics, 2008, 103, .	1.1	12
103	An investigation of thick-film materials for temperature and pressure sensors on self-constrained LTCC substrates. , 2008, , .		2
104	PZT thick films for pressure sensors: Characterisation of materials and devices. , 2008, , .		4
105	Effect of electric field and temperature on holographic scattering from holographic polymer-dispersed liquid crystals. Optical Materials, 2007, 29, 1416-1422.	1.7	9
106	Holographic scattering in photopolymer-dispersed liquid crystals. Applied Physics Letters, 2005, 87, 1511-1514.	1.5	28
107	Relaxor-ferroelectric PMN–PT Thick Films. , 0, , .		0