

Neamul Hayet Khansur

List of Publications by Year in descending order

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papers

856
citations

471371

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h-index

526166

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51
docs citations

51
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale ferroelectric/relaxor composites: Origin of large strain in lead-free Bi ³⁺ -based incipient piezoelectric ceramics. Journal of the European Ceramic Society, 2016, 36, 3401-3407.	2.8	89
2	Review of the mechanical and fracture behavior of perovskite lead-free ferroelectrics for actuator applications. Smart Materials and Structures, 2017, 26, 063001.	1.8	77
3	Resolving structural contributions to the electric-field-induced strain in lead-free (1-x)Ba(Zr _{0.2} Ti _{0.8})O _{3-x} (Ba _{0.7} Ca _{0.3})TiO ₃ piezoceramics. Acta Materialia, 2014, 66, 340-348.	3.8	59
4	Electric-field-induced strain contributions in morphotropic phase boundary composition of (Bi _{1/2} Na _{1/2})TiO ₃ -BaTiO ₃ during poling. Applied Physics Letters, 2015, 107, .	1.5	43
5	Room temperature deposition of functional ceramic films on low-cost metal substrate. Ceramics International, 2018, 44, 16295-16301.	2.3	42
6	Relaxor-ferroelectric crossover in $(1-x)\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_{3-x}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ piezoceramics. Physical Review B, 2017, 96, .	1.1	38
7	Synchrotron x-ray microdiffraction study of residual stresses in BaTiO ₃ films deposited at room temperature by aerosol deposition. Scripta Materialia, 2018, 157, 86-89.	2.6	33
8	Investigation of residual stress in lead-free BNT-based ceramic/ceramic composites. Acta Materialia, 2018, 148, 432-441.	3.8	32
9	Electric-field-induced Domain Switching and Domain Texture Relaxations in Bulk Bismuth Ferrite. Journal of the American Ceramic Society, 2015, 98, 3884-3890.	1.9	31
10	The effect of nano-sized BNBT on microstructure and dielectric/piezoelectric properties. Ceramics International, 2009, 35, 3027-3036.	2.3	27
11	Grain size effects in donor doped lead zirconate titanate ceramics. Journal of Applied Physics, 2020, 128, .	1.1	25
12	Tailoring of unipolar strain in lead-free piezoelectrics using the ceramic/ceramic composite approach. Journal of Applied Physics, 2014, 115, 124108.	1.1	23
13	Enhanced extrinsic domain switching strain in core-shell structured BaTiO ₃ /KNbO ₃ ceramics. Acta Materialia, 2015, 98, 182-189.	3.8	22
14	Energy-storage-efficient 0.9Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.1PbTiO ₃ thick films integrated directly onto stainless steel. Acta Materialia, 2021, 221, 117403.	3.8	20
15	Frequency dependence of the relaxor-to-ferroelectric transition under applied electrical and mechanical fields. Journal of the European Ceramic Society, 2019, 39, 1031-1041.	2.8	19
16	Compact size ultrasonic linear motor using a dome shaped piezoelectric actuator. Journal of Electroceramics, 2012, 28, 123-131.	0.8	18
17	The effect of pre-milling/pre-synthesis process and excess Ba on the microstructure and dielectric/piezoelectric properties of nano-sized 0.94[(Bi _{0.5} Na _{0.5})TiO ₃]-0.06[Ba(1+x)TiO ₃]. Ceramics International, 2010, 36, 1265-1275.	2.3	17
18	Electric field-induced changes in the ferroelastic behavior of (Na _{1/2} Bi _{1/2})TiO ₃ -BaTiO ₃ . Journal of the European Ceramic Society, 2018, 38, 4623-4630.	2.8	17

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19	The effect of inter-granular constraints on the response of polycrystalline piezoelectric ceramics at the surface and in the bulk. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	16
20	High temperature piezoelectric response of polycrystalline Li-doped (K,Na)NbO ₃ ceramics under compressive stress. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	16
21	Temperature-induced changes of the electrical and mechanical properties of aerosol-deposited BaTiO ₃ thick films for energy storage applications. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4108-4121.	1.9	15
22	Stress-modulated optimization of polymorphic phase transition in Li-doped (K,Na)NbO ₃ . <i>Applied Physics Letters</i> , 2020, 117, .	1.5	13
23	Nonlinear mechanical behaviour of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ and in situ stress dependent synchrotron X-ray diffraction study. <i>Solid State Ionics</i> , 2017, 300, 106-113.	1.3	12
24	Composition dependence of electric-field-induced structure of Bi _{1/2} (Na _{1-x} K _x) _{1/2} TiO ₃ lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2016, 119, 234101.	1.1	11
25	Determining the local pressure during aerosol deposition using glass memory. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2443-2452.	1.9	11
26	Bioactive glass coating using aerosol deposition. <i>Ceramics International</i> , 2019, 45, 14728-14732.	2.3	10
27	Temperature and Stress-Dependent Electromechanical Response of Porous Pb(Zr,Ti)O ₃ . <i>Advanced Engineering Materials</i> , 2020, 22, 2000389.	1.6	10
28	Revealing the effects of aerosol deposition on the substrate-film interface using NaCl coating. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5763-5771.	1.9	9
29	In situ combined stress and temperature dependent Raman spectroscopy of Li-doped (Na,K)NbO ₃ . <i>Journal of the American Ceramic Society</i> , 2022, 105, 2735-2743.	1.9	8
30	Effects of AgSbO ₃ on the Piezoelectric/Dielectric Properties and Phase Transition of Li ₂ O Doped NKN Lead-Free Piezoelectric Ceramics. <i>Advanced Materials Research</i> , 2011, 287-290, 801-804.	0.3	7
31	Uniaxial compressive stress and temperature dependent mechanical behavior of (1-x)BiFeO ₃ -x BaTiO ₃ lead-free piezoelectric ceramics. <i>Ceramics International</i> , 2017, 43, 9092-9098.	2.3	7
32	Enhanced Electromechanical Response and Thermal Stability of 0.93(Na _{1/2} Bi _{1/2})TiO ₃ -0.07BaTiO ₃ Through Aerosol Deposition of Base Metal Electrodes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100309.	1.9	7
33	Electric-field-induced strain of (Li,Na,K)NbO ₃ -based multilayered piezoceramics under electromechanical loading. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	7
34	Stress-dependent crystal structure of lanthanum strontium cobalt ferrite by in situ synchrotron X-ray diffraction. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	6
35	Effect of varying Bi content on the temperature-dependent mechanical, dielectric, and structural properties of nominal Na _{1/2} Bi _{1/2} TiO ₃ . <i>Journal of Applied Physics</i> , 2021, 130, 185106.	1.1	6
36	Multifunctional energy storage and piezoelectric properties of 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.35PbTiO ₃ thick films on stainless-steel substrates. <i>JPhys Energy</i> , 2022, 4, 024004.	2.3	6

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37	Stress- and frequency-dependent properties of relaxor-like sodium bismuth titanate. <i>Physical Review B</i> , 2021, 103, .	1.1	5
38	Characterization of Aerosol Deposited Cesium Lead Tribromide Perovskite Films on Interdigitated ITO Electrodes. <i>Advanced Electronic Materials</i> , 2021, 7, 2001165.	2.6	5
39	Electromechanical properties of paper-derived potassium sodium niobate piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6755-6764.	1.9	5
40	Influence of the annealing conditions on temperature-dependent ferroelastic behavior of LSCF. <i>Materialia</i> , 2019, 6, 100297.	1.3	4
41	Growth of tungsten bronze phase out of niobate perovskite phase for opto-ferroelectric applications. <i>Journal of the American Ceramic Society</i> , 0, , .	1.9	4
42	Unique multiferroics with tunable ferroelastic transition in antiferromagnet Mn ₂ V ₂ O ₇ . <i>Materials Today Physics</i> , 2022, 23, 100623.	2.9	4
43	Temperature-dependent ferroelastic behaviour of antiferroelectric AgNbO ₃ . <i>Acta Materialia</i> , 2022, 232, 117931.	3.8	4
44	A sample cell for <i>in situ</i> electric-field-dependent structural characterization and macroscopic strain measurements. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 694-699.	1.0	3
45	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
46	Local Structural Investigation of (Ba,Ca)(Zr,Ti)O ₃ and Ca(Zr,Ti)O ₃ by X-ray Fluorescence Holography. <i>Physica Status Solidi (B): Basic Research</i> , 0, , 2100609.	0.7	3
47	Temperature-dependent dielectric anomalies in powder aerosol deposited ferroelectric ceramic films. <i>Journal of Materiomics</i> , 2022, 8, 1239-1250.	2.8	3
48	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
49	Lead-Free Multilayer Piezoceramic Composites: Effect of Cosintering on Electromechanical Properties. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1127-1134.	1.7	1
50	Spatially-resolved relaxor to ferroelectric phase switching in 0.93Na _{1/2} Bi _{1/2} TiO ₃ -0.07BaTiO ₃ ceramics. <i>Journal of Materiomics</i> , 2022, , .	2.8	0