

Ali Hussain

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Energy storage and piezoelectric properties of lead-free SrTiO ₃ -modified 0.965Bi _{0.5} Na _{0.5} TiO ₃ â€“0.035BaTiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2021, 32, 10712-10725.	1.1	1
2	Role of Bi chemical pressure on electrical properties of BiFeO ₃ â€“BaTiO ₃ â€“based ceramics. Solid State Sciences, 2021, 114, 106562.	1.5	29
3	Structural evolution and electromechanical properties of SrTiO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ â€“BaTiO ₃ ceramics prepared by sol-gel and hydrothermal methods. Materials Chemistry and Physics, 2021, 266, 124529.	2.0	16
4	Thermally-stable high energy-storage performance over a wide temperature range in relaxor-ferroelectric Bi _{1/2} Na _{1/2} TiO ₃ -based ceramics. Ceramics International, 2021, 47, 23488-23496.	2.3	9
5	Evaluation of high strain response in lead-free BNBTFs-xNb ceramics by structure and ferroelectric characterizations. Journal of Physics and Chemistry of Solids, 2020, 138, 109230.	1.9	19
6	Enhanced Electromechanical Properties of 0.65Bi _{1.05} FeO ₃ â€“0.35BaTiO ₃ Ceramics through Optimizing Sintering Conditions. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900970.	0.8	10
7	Development and characterization of cost effective wear and corrosion resistant HVOF sprayed chromite coatings and hard chrome plating. , 2019, , .		2
8	Effect of the processing temperature on the electrical properties of lead-free 0.965Bi _{0.5} Na _{0.5} TiO ₃ â€“0.035BaTiO ₃ piezoelectric ceramics synthesized by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2019, 90, 643-652.	1.1	9
9	Effects of cooling rate on the electrical properties of Pb-free BF-BT ceramics. Ferroelectrics, 2019, 553, 76-82.	0.3	7
10	Effects of B-Site Donor Modification on the Crystal Structure and the Electrical Properties of Lead-Free 0.65BiFeO ₃ -0.35BaTiO ₃ Ceramics. Journal of the Korean Physical Society, 2019, 75, 811-816.	0.3	10
11	Structure Analysis and Ferroelectric Response of Bi _{0.5} Na _{0.5} TiO ₃ Nanopowder Synthesized by Solâ€“Gel Method. Journal of Nanoscience and Nanotechnology, 2019, 19, 1323-1329.	0.9	9
12	Electromechanical Properties of Lead-free Nb-doped 0.95Bi _{0.5} Na _{0.5} TiO ₃ â€“0.05BaZrO ₃ Piezoelectric Ceramics. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700942.	0.8	15
13	Stable Ferroelectric Behavior of Nb-Modified Bi _{0.5} K _{0.5} TiO ₃ -Bi(Mg _{0.5} Ti _{0.5})O ₃ Lead-Free Relaxor Ferroelectric Ceramics. Journal of Electronic Materials, 2018, 47, 2103-2109.	1.0	6
14	Thermal-stability of electric field-induced strain and energy storage density in Nb-doped BNKT-ST piezoceramics. Journal of the European Ceramic Society, 2018, 38, 2511-2519.	2.8	87
15	Temperature invariant high dielectric properties over the range 200 Â°Câ€“500 Â°C in BiFeO ₃ based ceramics. Journal of the European Ceramic Society, 2018, 38, 2259-2263.	2.8	25
16	Electromechanical properties of lead-free Sr- and Nb-doped Bi _{1/2} Na _{1/2} TiO ₃ â€“BaZrO ₃ ceramics. Materials Today: Proceedings, 2018, 5, 13688-13693.	0.9	1
17	Electromechanical properties of ternary BiFeO ₃ â€“0.35BaTiO ₃ â€“BiGaO ₃ piezoelectric ceramics. Journal of Electroceramics, 2018, 41, 93-98.	0.8	18
18	Evolution of ferroelectric and piezoelectric response by heat treatment in pseudocubic BiFeO ₃ â€“BaTiO ₃ ceramics. Journal of Electroceramics, 2018, 41, 99-104.	0.8	18

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19	Synthesis and electrical properties of $0.65\text{Bi}1.05\text{Fe}_{1-x}\text{Ga}_x\text{O}_3 \hat{=} 0.35\text{BaTiO}_3$ piezoceramics by air quenching process. <i>Journal of Electroceramics</i> , 2018, 41, 60-66.	0.8	12
20	Lead-free high performance $\text{Bi}(\text{Zn}_{0.5}\text{Ti}_{0.5})\text{O}_3$ -modified BiFeO_3 - BaTiO_3 piezoceramics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4414-4421.	2.8	68
21	Enhanced electromechanical properties of $(1-x)\text{BiFeO}_3 \hat{=} \text{BaTiO}_3 \hat{=} x\text{LiNbO}_3$ ceramics by quenching process. <i>Ceramics International</i> , 2017, 43, S198-S203.	2.3	41
22	Phase structure and electromechanical behavior of Li, Nb co-doped $0.95\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3 \hat{=} 0.05\text{BaZrO}_3$ ceramics. <i>Ceramics International</i> , 2017, 43, S204-S208.	2.3	24
23	Synthesis and electromechanical properties of LiTaO_3 -modified $\text{BiFeO}_3 \hat{=} \text{BaTiO}_3$ piezoceramics. <i>Ceramics International</i> , 2017, 43, S209-S213.	2.3	32
24	The Synthesis and Thermoelectric Properties of p-Type $\text{Li}^{1-x}\text{NbO}_2$ -Based Compounds. <i>Journal of Electronic Materials</i> , 2017, 46, 1740-1746.	1.0	9
25	Phase transition and energy storage properties of BaTiO_{3-x} -modified $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})_{0.5}\text{TiO}_3$ ceramics. <i>Ferroelectrics</i> , 2017, 517, 97-103.	0.3	13
26	Composition-dependent structural, dielectric and ferroelectric responses of lead-free $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ - SrZrO_3 ceramics. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1430-1438.	0.3	13
27	Dielectric and electromechanical properties of LiNbO_3 -modified $(\text{BiNa})\text{TiO}_3 \hat{=} (\text{BaCa})\text{TiO}_3$ lead-free piezoceramics. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175301.	1.3	38
28	Giant strain, thermally-stable high energy storage properties and structural evolution of Bi-based lead-free piezoceramics. <i>Journal of Alloys and Compounds</i> , 2016, 682, 302-310.	2.8	90
29	Influence of niobium substitution on structural and opto-electrical properties of BNKT piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 674, 413-424.	2.8	24
30	Temperature-insensitive High Strain in Lead-free $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.16})_{0.5}\text{TiO}_3 \hat{=} 0.04\text{SrTiO}_3$ Piezoceramics for Actuator Applications. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3842-3848.	1.3	123
31	Ferroelectric KNNT Fibers by Thermoplastic Extrusion Process: Microstructure and Electromechanical Characterization. <i>Actuators</i> , 2015, 4, 99-113.	1.2	13
32	The Effect of Niobium Doping on the Electrical Properties of $0.4(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3$ - 0.6BiFeO_3 Lead-Free Piezoelectric Ceramics. <i>Materials</i> , 2015, 8, 8183-8194.	1.3	10
33	Structural, Ferroelectric and Field-Induced Strain Response of Nb-Modified $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ - SrZrO_3 Lead-Free Ceramics. <i>Ferroelectrics</i> , 2015, 488, 23-31.	0.3	4
34	Structural transition and giant strain induced by A- and B-site concurrent donor doping in $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.16})_{0.5}\text{TiO}_3 \hat{=} \text{SrTiO}_3$ ceramics. <i>Materials Letters</i> , 2015, 143, 148-150.	1.3	38
35	Sodium Excess Ta-Modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ Ceramics Prepared by Reactive Template Grain Growth Method. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 228-234.	1.1	21
36	Evolution of phase structure and giant strain at low driving fields in Bi-based lead-free incipient piezoelectrics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 199, 105-112.	1.7	64

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37	Effect of sintering temperature on the electromechanical properties of $0.945\text{Bi}0.5\text{Na}0.5\text{TiO}_3\text{-}0.055\text{BaZrO}_3$ ceramics. Journal of the Korean Physical Society, 2015, 66, 1072-1076.	0.3	13
38	Reactive sintering of $(\text{K}0.5\text{Bi}0.5)\text{TiO}_3\text{-BiFeO}_3$ lead-free piezoelectric ceramics. Journal of the Korean Physical Society, 2015, 66, 1426-1438.	0.3	6
39	$\text{Na}0.5\text{Bi}0.5\text{TiO}_3\text{-BaZrO}_3$ textured ceramics prepared by reactive templated grain growth method. Ceramics International, 2015, 41, S26-S30.	2.3	23
40	Piezoelectric and ferroelectric properties of lead-free LiNbO_3 -modified $0.97(\text{Bi}0.5\text{Na}0.5\text{TiO}_3)\text{-}0.03\text{BaZrO}_3$ ceramics. Journal of the Korean Physical Society, 2015, 66, 661-666.	0.3	11
41	Effect of donor doping on the ferroelectric and the piezoelectric properties of lead-free $0.97(\text{Bi}0.5\text{Na}0.5\text{Ti}_{1-x}\text{Nb}_x)\text{O}_3\text{-}0.03\text{BaZrO}_3$ ceramics. Journal of the Korean Physical Society, 2015, 67, 1240-1245.	0.3	13
42	Structure-property relationship in lead-free A- and B-site co-doped $\text{Bi}_{0.5}(\text{Na}_{0.84}\text{K}_{0.16})_{0.5}\text{TiO}_3\text{-SrTiO}_3$ piezoceramics. RSC Advances, 2015, 5, 96953-96964.	0.3	6
43	Structural and dielectric properties of La and Nb co-substituted $\text{Bi}_{0.5}(\text{Na}_{0.84}\text{K}_{0.16})_{0.5}\text{TiO}_3\text{-SrTiO}_3$ ceramics. , 2015, , .		
44	Plate-like $\text{Na}0.5\text{Bi}0.5\text{TiO}_3$ particles synthesized by topochemical microcrystal conversion method. Journal of the European Ceramic Society, 2015, 35, 919-925.	2.8	34
45	Structural, Dielectric and Field-Induced Strain Properties of La-Modified $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3\text{-BaTiO}_3\text{-SrZrO}_3$ Ceramics. Korean Journal of Materials Research, 2015, 25, 566-570.	0.1	3
46	Enhanced Piezoelectric Properties of Lead-Free La and Nb Co-Modified $\text{Bi}0.5(\text{Na}0.84\text{K}0.16)0.5\text{TiO}_3\text{-SrTiO}_3$ Ceramics. Korean Journal of Materials Research, 2015, 25, 288-292.	0.1	3
47	Dielectric and Ferroelectric Properties of Nb Doped BNT-Based Relaxor Ferroelectrics. Korean Journal of Materials Research, 2015, 25, 317-321-317-321.	0.1	7
48	Structure and temperature dependent electrical properties of lead-free $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-SrZrO}_3$ ceramics. IOP Conference Series: Materials Science and Engineering, 2014, 60, 012047.	0.3	8
49	Ferroelectric and impedance response of lead-free $(\text{B}0.5\text{N}0.5)\text{TiO}_3\text{-BaZrO}_3$ piezoelectric ceramics. IOP Conference Series: Materials Science and Engineering, 2014, 60, 012043.	0.3	4
50	Effect of Na excess on the dielectric and piezoelectric properties of $(\text{Na}0.53\text{K}0.47)(\text{Nb}0.55\text{Ta}0.45)\text{O}_3$ ceramics. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1715-1719.	0.8	5
51	Structural and electromechanical properties of lead-free $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-BaZrO}_3$ ceramics. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1704-1708.	0.8	19
52	Field-induced strain and polarization response in lead-free $\text{Bi}_{1/2}(\text{Na}0.80\text{K}0.20)_{1/2}\text{TiO}_3\text{-SrZrO}_3$ ceramics. Materials Chemistry and Physics, 2014, 143, 1282-1288.	2.0	84
53	Enhanced electric field-induced strain and ferroelectric behavior of $(\text{Bi}0.5\text{Na}0.5)\text{TiO}_3\text{-BaTiO}_3\text{-SrZrO}_3$ lead-free ceramics. Ceramics International, 2014, 40, 11905-11914.	2.3	93
54	Field induced strain response of lead-free BaZrO_3 -modified $\text{Bi}0.5\text{Na}0.5\text{TiO}_3\text{-BaTiO}_3$ ceramics. Journal of Alloys and Compounds, 2014, 593, 97-102.	2.8	74

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55	Dielectric, ferroelectric and field-induced strain response of lead-free BaZrO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ ceramics. <i>Current Applied Physics</i> , 2014, 14, 331-336.	1.1	66
56	High strain in lead-free Nb-doped Bi _{1/2} (Na _{0.84} K _{0.16}) _{1/2} TiO ₃ piezoelectric ceramics. <i>Applied Physics Express</i> , 2014, 7, 061502.	1.1	19
57	Impedance Spectroscopy of Sodium Excess Ta-Modified (K _{0.5} Na _{0.5})NbO ₃ Ceramics Prepared by Reactive Templated Grain Growth. <i>Ferroelectrics</i> , 2014, 464, 107-115.	0.3	4
58	Mechanical properties of CNT reinforced hybrid functionally graded materials for bioimplants. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, s90-s98.	1.7	21
59	Ferroelectric and piezoelectric properties of SrZrO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ lead-free ceramics. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, s146-s151.	1.7	23
60	Effect of SrZrO ₃ substitution on structural and electrical properties of lead-free Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1709-1714.	0.8	20
61	Synthesis, Structural Analysis, and Dielectric Response of NaNbO ₃ Particles Synthesized by Different Techniques. <i>Materials and Manufacturing Processes</i> , 2014, 29, 733-737.	2.7	3
62	Dielectric and Piezoelectric Properties of Ta-modified (K _{0.53} Na _{0.47})(Nb _{0.8} Ta _{0.2})O ₃ Ferroelectric Ceramics. <i>Ferroelectrics</i> , 2014, 458, 111-117.	0.3	1
63	Effect of BiAlO ₃ concentration on the dielectric and piezoelectric properties of lead-free (Bi _{0.5} Na _{0.5}) _{0.94} Ba _{0.06} TiO ₃ piezoelectric ceramics. <i>Journal of Electroceramics</i> , 2013, 30, 82-86.	0.8	12
64	Fabrication of textured KNNT ceramics by reactive template grain growth using NN templates. <i>Current Applied Physics</i> , 2013, 13, 1055-1059.	1.1	26
65	Mechanical characterization of copper coated carbon nanotubes reinforced aluminum matrix composites. <i>Materials Characterization</i> , 2013, 86, 39-48.	1.9	97
66	Dielectric, ferroelectric and field induced strain properties of Nb-modified Pb-free 0.99Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} TiO ₃ -0.01LiSbO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2013, 574, 320-324.	2.8	49
67	Preparation and electrical properties of NaNbO ₃ ceramics synthesized by topochemical microcrystal conversion. <i>Ceramics International</i> , 2013, 39, S365-S368.	2.3	5
68	Comparison of Ferroelectric and Strain Properties between BaTiO ₃ - and BaZrO ₃ -Modified Bi _{1/2} (Na _{0.82} K _{0.18}) _{1/2} TiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MD02.	0.8	4
69	Temperature-Dependent Properties of (Bi _{1/2} Na _{1/2})TiO ₃ Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2241-2247.	3.8	38
70	Influence of zirconium substitution on dielectric, ferroelectric and field-induced strain behaviors of lead-free 0.99[Bi _{1/2} (Na _{0.82} K _{0.18}) _{1/2} (Ti _{1-x} Zr _x)O ₃]-0.01LiSbO ₃ ceramics. <i>Journal of the Korean Physical Society</i> , 2012, 61, 773-778.	0.3	10
71	Dielectric and conduction behaviors of lead-free LiNbO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ ceramics. <i>Journal of the Korean Physical Society</i> , 2012, 61, 951-955.	0.3	10
72	Dielectric, ferroelectric and field-induced strain behavior of K _{0.5} Na _{0.5} NbO ₃ -modified Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ lead-free ceramics. <i>Ceramics International</i> , 2012, 38, 4143-4149.	2.3	44

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73	Destabilization of ferroelectric order in bismuth perovskite ceramics by A-site vacancies. <i>Materials Letters</i> , 2012, 70, 98-100.	1.3	42
74	Comparison of Ferroelectric and Strain Properties between BaTiO ₃ - and BaZrO ₃ -Modified Bi _{1/2} (Na _{0.82} K _{0.18}) _{1/2} TiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MD02.	0.8	13
75	Effect of potassium concentration on the structure and electrical properties of lead-free Bi _{0.5} (Na,K)O ₅ TiO ₃ piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3148-3154.	2.8	37
76	Phase Transition, Electrical Properties, and Temperature-insensitive Large Strain in BiAlO ₃ -Modified Bi _{0.5} (Na _{0.75} K _{0.25}) _{0.5} TiO ₃ Lead-free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3915-3921.	1.9	105
77	Structural, dielectric and electrical properties of BaFe _{0.5} Nb _{0.5} O ₃ ceramic prepared by solid-state reaction technique. <i>Materials Chemistry and Physics</i> , 2011, 131, 535-539.	2.0	47
78	Anisotropic Dielectric and Electrical Properties of Hot-Forged SrBi ₄ Ti ₄ O ₁₅ Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2010, 7, E114.	1.1	4
79	The effects of sintering temperatures on dielectric, ferroelectric and electric field-induced strain of lead-free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ piezoelectric ceramics synthesized by the sol-gel technique. <i>Current Applied Physics</i> , 2010, 10, 1367-1371.	1.1	64
80	Large electric-field-induced strain in Zr-modified lead-free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ piezoelectric ceramics. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 84-89.	2.0	201
81	Giant strain in Nb-doped Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} TiO ₃ lead-free electromechanical ceramics. <i>Materials Letters</i> , 2010, 64, 2219-2222.	1.3	192
82	Structural transition and large electric field-induced strain in BiAlO ₃ -modified Bi _{0.5} (Na _{0.8} K _{0.2}) _{0.5} TiO ₃ lead-free piezoelectric ceramics. <i>Solid State Communications</i> , 2010, 150, 1145-1149.	0.9	38
83	Anisotropic electrical properties of Bi _{0.5} (Na _{0.75} K _{0.25}) _{0.5} TiO ₃ ceramics fabricated by reactive templated grain growth (RTGG). <i>Current Applied Physics</i> , 2010, 10, 305-310.	1.1	28
84	Phase transitions and large electric field-induced strain in BiAlO ₃ -modified Bi _{0.5} (Na,K) _{0.5} TiO ₃ lead-free piezoelectric ceramics. <i>Current Applied Physics</i> , 2010, 10, 1174-1181.	1.1	69
85	Phase Transition and Electrical Properties of BiAlO ₃ -Modified (Bi _{0.5} Na _{0.5})TiO ₃ Piezoelectric Ceramics. <i>Ferroelectrics</i> , 2010, 404, 167-172.	0.3	36
86	The Effect of Sintering Temperature on Lead-Free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ -(Na _{0.5} K _{0.5})NbO ₃ Ceramics. <i>Ferroelectrics</i> , 2010, 404, 157-161.	0.3	6
87	Effects of Hafnium Substitution on Dielectric and Electromechanical Properties of Lead-free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} (Ti _{1-x} Hf _x)O ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 041504.		
88	Phase Transition, Microstructures and Electromechanical Properties of BiAlO ₃ -modified Bi _{0.5} (Na,K) _{0.5} TiO ₃ Lead-free Piezoelectric Ceramics. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1102-1105.	0.3	17
89	Impedance Spectroscopy of Lead-free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ -(Na _{0.5} K _{0.5})NbO ₃ Piezoelectric Ceramics. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1106-1110.	0.3	14
90	Enhanced Electric-Field-Induced Strain at the Ferroelectric-Electrostrictive Phase Boundary of Yttrium-Doped Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} TiO ₃ Lead-Free Piezoelectric Ceramics. <i>Journal of the Korean Physical Society</i> , 2010, 57, 892-896.	0.3	18

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91	Impedance spectroscopy and morphology of SrBi ₄ Ti ₄ O ₁₅ ceramics prepared by soft chemical method. Journal of Alloys and Compounds, 2009, 477, 706-711.	2.8	98
92	Grain-Oriented Bi _{0.5} Na _{0.5} TiO ₃ –BaZrO ₃ Piezoelectric Ceramics. , 0, , .		0