

# Aman Ullah

## List of Publications by Year in descending order

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55  
papers

1,603  
citations

304602

22  
h-index

302012

39  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large electric-field-induced strain in Zr-modified lead-free $\text{Bi}_{0.5}(\text{Na}_{0.78}\text{K}_{0.22})_{0.5}\text{TiO}_3$ piezoelectric ceramics. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 84-89.	2.0	201
2	Electric-field-induced phase transition and large strain in lead-free Nb-doped BNKT-BST ceramics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 29-35.	2.8	120
3	Phase Transition, Electrical Properties, and Temperature-insensitive Large Strain in $\text{BiAlO}_3$ -Modified $\text{Bi}_{0.5}(\text{Na}_{0.75}\text{K}_{0.25})_{0.5}\text{TiO}_3$ Lead-free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3915-3921.	1.9	105
4	Large strain under a low electric field in lead-free bismuth-based piezoelectrics. <i>Applied Physics Letters</i> , 2013, 103, 022906.	1.5	72
5	Phase transitions and large electric field-induced strain in $\text{BiAlO}_3$ -modified $\text{Bi}_{0.5}(\text{Na},\text{K})_{0.5}\text{TiO}_3$ lead-free piezoelectric ceramics. <i>Current Applied Physics</i> , 2010, 10, 1174-1181.	1.1	69
6	Effects of Hafnium Substitution on Dielectric and Electromechanical Properties of Lead-free $\text{Bi}_{0.5}(\text{Na}_{0.78}\text{K}_{0.22})_{0.5}(\text{Ti}_{1-x}\text{Hf}_x)\text{O}_3$ Ceramic. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 041504.	0.8	69
7	The effects of sintering temperatures on dielectric, ferroelectric and electric field-induced strain of lead-free $\text{Bi}_{0.5}(\text{Na}_{0.78}\text{K}_{0.22})_{0.5}\text{TiO}_3$ piezoelectric ceramics synthesized by the sol-gel technique. <i>Current Applied Physics</i> , 2010, 10, 1367-1371.	1.1	64
8	Large Electromechanical Response in Lead-free La-doped BNKT-BST Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2471-2478.	1.9	64
9	High strain response in ternary $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ - $\text{BaTiO}_3$ - $\text{Bi}(\text{Mn}_{0.5}\text{Ti}_{0.5})\text{O}_3$ solid solutions. <i>RSC Advances</i> , 2016, 6, 63915-63921.	0.1	39
10	Dielectric, ferroelectric and field-induced strain behavior of $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ -modified $\text{Bi}_{0.5}(\text{Na}_{0.78}\text{K}_{0.22})_{0.5}\text{TiO}_3$ lead-free ceramics. <i>Ceramics International</i> , 2012, 38, 4143-4149.	2.3	44
11	Enhanced piezoelectric properties of Ta substituted- $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ films: A candidate for lead-free piezoelectric thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, L194-L198.	2.8	39
12	Giant room-temperature electrostrictive coefficients in lead-free relaxor ferroelectric ceramics by compositional tuning. <i>APL Materials</i> , 2018, 6, .	2.2	39
13	Structural transition and large electric field-induced strain in $\text{BiAlO}_3$ -modified $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})_{0.5}\text{TiO}_3$ lead-free piezoelectric ceramics. <i>Solid State Communications</i> , 2010, 150, 1145-1149.	0.9	38
14	Structure, ferroelectric properties, and electric field-induced large strain in lead-free $\text{Bi}_{0.5}(\text{Na},\text{K})_{0.5}\text{TiO}_3$ - $(\text{Bi}_{0.5}\text{La}_{0.5})\text{AlO}_3$ piezoelectric ceramics. <i>Ceramics International</i> , 2012, 38, S363-S368.	2.3	38
15	Effect of potassium concentration on the structure and electrical properties of lead-free $\text{Bi}_{0.5}(\text{Na},\text{K})_{0.5}\text{TiO}_3$ - $\text{BiAlO}_3$ piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3148-3154.	2.8	37
16	Phase Transition and Electrical Properties of $\text{BiAlO}_3$ -Modified $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ Piezoelectric Ceramics. <i>Ferroelectrics</i> , 2010, 404, 167-172.	0.3	36
17	Enhancement of dielectric and energy density properties in the PVDF-based copolymer/terpolymer blends. <i>Polymer Engineering and Science</i> , 2015, 55, 1396-1402.	1.5	33
18	Effect of Mn substitution on ferroelectric and leakage current characteristics of lead-free $(\text{K}_{0.5}\text{Na}_{0.5})(\text{Mn Nb}_{1-x})\text{O}_3$ thin films. <i>Current Applied Physics</i> , 2011, 11, S266-S269.	1.1	29

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19	Large piezoresponse of lead-free Bi <sub>0.5</sub> (Na <sub>0.85</sub> K <sub>0.15</sub> ) <sub>0.5</sub> TiO <sub>3</sub> thin film. <i>Current Applied Physics</i> , 2012, 12, 903-907.	1.1	27
20	Dielectric, ferroelectric, and piezoelectric properties of Nb-substituted Bi <sub>1/2</sub> (Na <sub>0.82</sub> K <sub>0.18</sub> ) <sub>1/2</sub> TiO <sub>3</sub> lead-free ceramics. <i>Journal of the Korean Physical Society</i> , 2012, 60, 207-211.	0.3	25
21	Recent Progress in Potassium Sodium Niobate Lead-free Thin Films. <i>Journal of the Korean Physical Society</i> , 2018, 72, 1467-1483.	0.3	25
22	Spectroscopic study of CO <sub>2</sub> and CO <sub>2</sub> +N <sub>2</sub> mixture plasma using dielectric barrier discharge. <i>AIP Advances</i> , 2019, 9, .	0.6	25
23	Relaxor behavior and piezoelectric properties of Bi(Mg <sub>0.5</sub> Ti <sub>0.5</sub> )O <sub>3</sub> -modified Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> lead-free ceramics. <i>Ceramics International</i> , 2015, 41, 10557-10564.	2.3	21
24	Large strain in Bi <sub>0.5</sub> (Na <sub>0.78</sub> K <sub>0.22</sub> ) <sub>0.5</sub> TiO <sub>3</sub> +Bi(Mg <sub>0.5</sub> Ti <sub>0.5</sub> )O <sub>3</sub> based composite ceramics under low driving field. <i>Sensors and Actuators A: Physical</i> , 2017, 258, 174-181.	2.0	21
25	Polymorphic phase transition in BaTiO <sub>3</sub> by Ni doping. <i>Ceramics International</i> , 2019, 45, 16305-16310.	2.3	21
26	Effects of LiNbO <sub>3</sub> substitution on lead-free (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> ceramics: Enhanced ferroelectric and electrical properties. <i>Current Applied Physics</i> , 2011, 11, S149-S153.	1.1	19
27	Photovoltaic effect of lead-free (Na <sub>0.82</sub> K <sub>0.18</sub> ) <sub>0.5</sub> Bi <sub>4.5</sub> Ti <sub>4</sub> O <sub>15</sub> ferroelectric thin film using Pt and indium tin oxide top electrodes. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	19
28	A study on low sintering-temperature (1-x)(Bi <sub>0.5</sub> (Na <sub>0.78</sub> K <sub>0.22</sub> ) <sub>0.5</sub> TiO <sub>3</sub> ) <sub>1-x</sub> 0.02CuO) <sub>1-x</sub> CoFe <sub>2</sub> O <sub>4</sub> particulate composites. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	19
29	Effect of Lanthanum Doping on Ferroelectric and Strain Properties of 0.96Bi <sub>1/2</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>1/2</sub> TiO <sub>3</sub> -0.04SrTiO <sub>3</sub> Lead-Free Ceramics. <i>Journal of Electronic Materials</i> , 2016, 45, 2639-2643.	1.0	18
30	Phase Transition, Microstructures and Electromechanical Properties of BiAlO <sub>3</sub> -modified Bi <sub>0.5</sub> (Na,K) <sub>0.5</sub> TiO <sub>3</sub> Lead-free Piezoelectric Ceramics. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1102-1105.	0.3	17
31	Effect of Ta content on the phase transition and piezoelectric properties of lead-free (K <sub>0.48</sub> Na <sub>0.48</sub> Li <sub>0.04</sub> )(Nb <sub>0.995-x</sub> Mn <sub>0.005</sub> Ta <sub>x</sub> )O <sub>3</sub> thin film. <i>Journal of Applied Physics</i> , 2012, 111, 024110.	1.1	14
32	Dielectric, ferroelectric and piezoelectric properties of (1-x)(Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.935</sub> Ba <sub>0.065</sub> Ti <sub>1-x</sub> (LiSbO <sub>3</sub> ) solid solutions. <i>Ceramics International</i> , 2018, 44, 556-562.	2.3	14
33	Boosting electrostriction and strain performance in bismuth sodium titanate-based ceramics via introducing low tolerance factor chemical modifier. <i>Sensors and Actuators A: Physical</i> , 2019, 291, 156-166.	2.0	14
34	Impedance Spectroscopy of Lead-free Bi <sub>0.5</sub> (Na <sub>0.78</sub> K <sub>0.22</sub> ) <sub>0.5</sub> TiO <sub>3</sub> -(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> Piezoelectric Ceramics. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1106-1110.	0.3	14
35	Dielectric spectroscopy of lead-free Bi <sub>0.5</sub> (Na <sub>0.75</sub> K <sub>0.25</sub> ) <sub>0.5</sub> TiO <sub>3</sub> +BiAlO <sub>3</sub> ceramics. <i>Ceramics International</i> , 2014, 40, 11335-11342.	2.3	13
36	Effect of BiAlO <sub>3</sub> concentration on the dielectric and piezoelectric properties of lead-free (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> piezoelectric ceramics. <i>Journal of Electroceramics</i> , 2013, 30, 82-86.	0.8	12



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55	Interfacial Dead Layers on Lead Free Ferroelectric (K <sub>0.5</sub> Na <sub>0.5</sub> )(Mn <sub>0.005</sub> Nb <sub>0.995</sub> )O <sub>3</sub> Thin Films. Japanese Journal of Applied Physics, 2012, 51, 09MD03.	0.8	1