

# Jamil Ur Rahman

## List of Publications by Year in descending order

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40  
papers

1,085  
citations

471371

17  
h-index

414303

32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, microstructure, and thermoelectric properties of Sb-Based high entropy alloys. <i>Intermetallics</i> , 2022, 143, 107495.	1.8	5
2	Identification and comparison of peculiarities in physical properties of multiferroic morphotropic phase boundary sintered BiFeO <sub>3</sub> -xPbTiO <sub>3</sub> nano-ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109868.	1.9	3
3	Manipulation of dielectric, ferroelectric and magnetic anomalies in multiferroic, morphotropic phase boundary quenched BiFeO <sub>3</sub> -0.35PbTiO <sub>3</sub> solid solutions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125835.	0.9	7
4	Grain Boundary Interfaces Controlled by Reduced Graphene Oxide in Nonstoichiometric SrTiO <sub>3</sub> - $\delta$ Thermoelectrics. <i>Scientific Reports</i> , 2019, 9, 8624.	1.6	50
5	Electrical response of mixed phase (1-x)BiFeO <sub>3</sub> -xPbTiO <sub>3</sub> solid solution: Role of tetragonal phase and tetragonality. <i>Journal of Alloys and Compounds</i> , 2019, 786, 98-108.	2.8	12
6	X-site aliovalent substitution decoupled charge and phonon transports in XYZ half-Heusler thermoelectrics. <i>Acta Materialia</i> , 2019, 166, 650-657.	3.8	10
7	Chemically synthesized Cu <sub>2</sub> Te incorporated Bi-Sb-Te p-type thermoelectric materials for low temperature energy harvesting. <i>Scripta Materialia</i> , 2019, 165, 78-83.	2.6	19
8	Oxygen vacancy revived phonon-glass electron-crystal in SrTiO <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , 2019, 39, 358-365.	2.8	59
9	Synthesis and thermoelectric properties of Ti-substituted (Hf <sub>0.5</sub> Zr <sub>0.5</sub> ) <sub>1-x</sub> Ti <sub>x</sub> NiSn <sub>0.998</sub> Sb <sub>0.002</sub> Half-Heusler compounds. <i>Journal of Alloys and Compounds</i> , 2019, 773, 1141-1145.	2.8	13
10	Coral-like iron particles synthesized by morphology controllable reduction process. <i>Ceramics International</i> , 2018, 44, 5359-5364.	2.3	3
11	High thermoelectric performance of melt-spun CuxBi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> by synergetic effect of carrier tuning and phonon engineering. <i>Acta Materialia</i> , 2018, 158, 289-296.	3.8	37
12	Formation of multiferroic PbTiO <sub>3</sub> /PbFe <sub>12</sub> O <sub>19</sub> composite by exceeding the solubility limit of Fe in PbTiO <sub>3</sub> . <i>Physica B: Condensed Matter</i> , 2017, 520, 139-147.	1.3	5
13	The Synthesis and Thermoelectric Properties of p-Type Li <sup>x</sup> NbO <sub>2</sub> -Based Compounds. <i>Journal of Electronic Materials</i> , 2017, 46, 1740-1746.	1.0	9
14	Localized double phonon scattering and DOS induced thermoelectric enhancement of degenerate nonstoichiometric Li <sup>x</sup> NbO <sub>2</sub> compounds. <i>RSC Advances</i> , 2017, 7, 53255-53264.	1.7	10
15	Nonstoichiometric Effects in the Leakage Current and Electrical Properties of Bismuth Ferrite Ceramics. <i>Journal of the Korean Ceramic Society</i> , 2017, 54, 323-330.	1.1	18
16	Composition-dependent structural, dielectric and ferroelectric responses of lead-free Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -SrZrO <sub>3</sub> ceramics. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1430-1438.	0.3	13
17	Temperature-insensitive High Strain in Lead-Free Bi <sub>0.5</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>0.5</sub> TiO <sub>3</sub> $\delta$ 0.04SrTiO <sub>3</sub> Ceramics for Actuator Applications. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3842-3848.	1.5	123
18	Structural, Ferroelectric and Field-Induced Strain Response of Nb-Modified (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -SrZrO <sub>3</sub> Lead-Free Ceramics. <i>Ferroelectrics</i> , 2015, 488, 23-31.	0.3	4

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19	Structural transition and giant strain induced by A- and B-site concurrent donor doping in Bi <sub>0.5</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>0.5</sub> TiO <sub>3</sub> â€“SrTiO <sub>3</sub> ceramics. Materials Letters, 2015, 143, 148-150.	1.3	38
20	Evolution of phase structure and giant strain at low driving fields in Bi-based lead-free incipient piezoelectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 199, 105-112.	1.7	64
21	Effect of sintering temperature on the electromechanical properties of 0.945Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -0.055BaZrO <sub>3</sub> ceramics. Journal of the Korean Physical Society, 2015, 66, 1072-1076.	0.3	13
22	Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> â€“BaZrO <sub>3</sub> textured ceramics prepared by reactive templated grain growth method. Ceramics International, 2015, 41, S26-S30.	2.3	23
23	Piezoelectric and ferroelectric properties of lead-free LiNbO <sub>3</sub> -modified 0.97(Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> )-0.03BaZrO <sub>3</sub> ceramics. Journal of the Korean Physical Society, 2015, 66, 661-666.	0.3	11
24	Effect of donor doping on the ferroelectric and the piezoelectric properties of lead-free 0.97(Bi <sub>0.5</sub> Na <sub>0.5</sub> Ti <sub>1-x</sub> Nb <sub>x</sub> )O <sub>3</sub> -0.03BaZrO <sub>3</sub> ceramics. Journal of the Korean Physical Society, 2015, 67, 1240-1245.	0.3	13
25	Structureâ€“property relationship in lead-free A- and B-site co-doped Bi <sub>0.5</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>0.5</sub> TiO <sub>3</sub> â€“SrTiO <sub>3</sub> incipient piezoceramics. RSC Advances, 2015, 5, 96953-96964.	0.3	64
26	Structural and dielectric properties of La and Nb co-substituted Bi <sub>0.5</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>0.5</sub> TiO <sub>3</sub> â€“SrTiO <sub>3</sub> incipient piezoceramics. , 2015, , .		
27	Plate-like Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> particles synthesized by topochemical microcrystal conversion method. Journal of the European Ceramic Society, 2015, 35, 919-925.	2.8	34
28	Thermoelectric Properties of n-Type Half-Heusler Compounds Synthesized by the Induction Melting Method. Transactions on Electrical and Electronic Materials, 2015, 16, 342-345.	1.0	4
29	Structure and temperature dependent electrical properties of lead-free Bi <sub>0.5</sub> (Na <sub>0.84</sub> K <sub>0.16</sub> ) <sub>0.5</sub> TiO <sub>3</sub> -SrZrO <sub>3</sub> ceramics. IOP Conference Series: Materials Science and Engineering, 2014, 60, 012047.	0.3	8
30	Ferroelectric and impedance response of lead-free (Bi <sub>0.5</sub> Nb <sub>0.5</sub> )TiO <sub>3</sub> -BaZrO <sub>3</sub> piezoelectric ceramics. IOP Conference Series: Materials Science and Engineering, 2014, 60, 012043.	0.3	4
31	Structural and electromechanical properties of lead-free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaZrO <sub>3</sub> ceramics. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1704-1708.	0.8	19
32	Field-induced strain and polarization response in lead-free Bi <sub>1/2</sub> (Na <sub>0.80</sub> K <sub>0.20</sub> ) <sub>1/2</sub> TiO <sub>3</sub> â€“SrZrO <sub>3</sub> ceramics. Materials Chemistry and Physics, 2014, 143, 1282-1288.	2.0	84
33	Enhanced electric field-induced strain and ferroelectric behavior of (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> â€“BaTiO <sub>3</sub> â€“SrZrO <sub>3</sub> lead-free ceramics. Ceramics International, 2014, 40, 11905-11914.	2.3	93
34	Field induced strain response of lead-free BaZrO <sub>3</sub> -modified Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> â€“BaTiO <sub>3</sub> ceramics. Journal of Alloys and Compounds, 2014, 593, 97-102.	2.8	74
35	Dielectric, ferroelectric and field-induced strain response of lead-free BaZrO <sub>3</sub> -modified Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> ceramics. Current Applied Physics, 2014, 14, 331-336.	1.1	66
36	Impedance Spectroscopy of Sodium Excess Ta-Modified (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> Ceramics Prepared by Reactive Templated Grain Growth. Ferroelectrics, 2014, 464, 107-115.	0.3	4

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37	Mechanical properties of CNT reinforced hybrid functionally graded materials for bioimplants. Transactions of Nonferrous Metals Society of China, 2014, 24, s90-s98.	1.7	21
38	Ferroelectric and piezoelectric properties of SrZrO <sub>3</sub> -modified Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> lead-free ceramics. Transactions of Nonferrous Metals Society of China, 2014, 24, s146-s151.	1.7	23
39	Effect of SrZrO <sub>3</sub> substitution on structural and electrical properties of lead-free Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> ceramics. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1709-1714.	0.8	20
40	Challenges in Improving Performance of Oxide Thermoelectrics Using Defect Engineering. , 0, , .		1