

# Gobburu Skumar

## List of Publications by Year in descending order

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80  
papers

748  
citations

516710

16  
h-index

642732

23  
g-index

80  
all docs

80  
docs citations

80  
times ranked

636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impedance and a.c. conductivity studies on Ba(Nd <sub>0.2</sub> Ti <sub>0.6</sub> Nb <sub>0.2</sub> )O <sub>3</sub> ceramic prepared through conventional and microwave sintering route. Bulletin of Materials Science, 2006, 29, 347-355.	1.7	49
2	Bulletin of Materials Science, 2006, 29, 35-41.	1.7	42
3	Modification of dielectric relaxations in sodium bismuth titanate with samarium doping. Journal of Physics and Chemistry of Solids, 2006, 67, 1803-1808.	4.0	39
4	Dielectric properties of Bismuth Titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ) synthesized using solution combustion route. Physica B: Condensed Matter, 2012, 407, 3813-3817.	2.7	38
5	Control of ferroelectric phase transition in nano particulate NBT-BT based ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 283-292.	3.5	37
6	Studies of phase transition and impedance behavior of Ba(Zr <sub>x</sub> ) <sub>1-x</sub> Ti <sub>1-x</sub> O <sub>3</sub> ferroelectric relaxor. Journal of Applied Physics, 2015, 118, 1550002.	2.4	36
7	Dielectric relaxation in NBT-ST ceramic composite materials. Ionics, 2013, 19, 1751-1760.	2.4	25
8	Dielectric Properties of BaTiO <sub>3</sub> Based Lead Free Relaxor Prepared Through Conventional and Microwave Sintering. Ferroelectrics, 2005, 326, 79-84.	0.6	22
9	Dielectric behaviour of microwave sintered rare-earth doped BaTiO <sub>3</sub> ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 36-40.	3.5	22
10	Preparation, characterization and impedance study of AgTaMPO (M=Al, Ga, In, Cr, Fe and Y). Solid State Ionics, 2005, 176, 2701-2710.	2.7	21
11	Impedance analysis and dielectric properties of Ce modified bismuth titanate lead free ceramics synthesized using solution combustion route. Journal of Materials Science: Materials in Electronics, 2015, 26, 9122-9133.	2.2	20
12	Impedance Spectroscopic Studies on Lead Based Perovskite Materials. Ferroelectrics, 2008, 366, 55-66.	0.6	18
13	Electrical studies on A- and B-site-modified Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ceramic. Ceramics International, 2009, 35, 1057-1062.	4.8	18
14	Synthesis and characterization of BaTiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> composites. Ferroelectrics, 2017, 519, 15-22.	0.6	18
15	Effect of simultaneous double doping in Ba and Ti sites on dielectric and ferroelectric properties of sol-gel synthesized nano-BaTiO <sub>3</sub> . Journal of Materials Science: Materials in Electronics, 2011, 22, 1855-1864.	2.2	17
16	Electrical and X-ray Photoelectron Spectroscopy Study on (Na <sub>0.5-x</sub> K <sub>x</sub> Bi <sub>0.5-x</sub> Nd <sub>x</sub> )TiO <sub>3</sub> Ceramics. Ferroelectrics, 2013, 445, 161-171.	0.6	17
17	Impedance spectroscopy and conductivity studies on B site modified (Na <sub>0.5</sub> Bi <sub>0.5</sub> )(Nd <sub>x</sub> Ti <sub>1-2x</sub> Nb <sub>x</sub> )O <sub>3</sub> ceramics. Journal of Materials Science, 2007, 42, 10275-10283.	3.7	14
18	A-site substitution-controlled dielectric dispersion in lead-free sodium bismuth titanate. Pramana - Journal of Physics, 2009, 72, 999-1009.	1.8	14

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19	Study of Maxwell-Wagner (M <sup>W</sup> ) relaxation behavior and hysteresis observed in bismuth titanate layered structure obtained by solution combustion synthesis using dextrose as fuel. Materials Research Bulletin, 2014, 49, 651-656.	5.2	14
20	Optical properties and preparation of Bismuth Titanate (Bi <sub>12</sub> TiO <sub>20</sub> ) using combustion synthesis technique. Optik, 2013, 124, 2963-2965.	2.9	13
21	Dielectric and Piezoelectric Properties of Microwave Sintered Ba <sub>1-x</sub> Re <sub>x</sub> TiO <sub>3</sub> Ceramics. Ferroelectrics, 2015, 486, 175-183.	0.6	13
22	Spectroscopic and electrical studies on Nd <sup>3+</sup> , Zr <sup>4+</sup> ions doped nano-sized BaTiO <sub>3</sub> ferroelectrics prepared by sol-gel method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 366-372.	3.9	12
23	Effect of B-site isovalent doping on electrical and ferroelectric properties of lead free bismuth titanate ceramics. Journal of Physics and Chemistry of Solids, 2016, 93, 91-99.	4.0	12
24	Simulation of dielectric and resonance and anti-resonance data using modified Lorentz equation (T) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Materials Science, 2019, 42, 1.	1.7	11
25	Study of dielectric and impedance relaxations in (Na <sub>0.125</sub> Bi <sub>0.125</sub> Ba <sub>0.65</sub> Ca <sub>0.1</sub> )(Nd <sub>0.065</sub> Ti <sub>0.87</sub> Nb <sub>0.065</sub> )O <sub>3</sub> ceramic. Materials Chemistry and Physics, 2006, 99, 276-283.	4.0	10
26	Modified Lorentz and Gauss Equations to Describe the Dielectric Behaviour of Sr <sub>1-2x</sub> Na <sub>x</sub> Nd <sub>x</sub> Bi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> Normal Ferroelectric Compounds. Integrated Ferroelectrics, 2015, 167, 115-122.	0.7	10
27	Dielectric Relaxor Ceramics - Solid Solution of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> with Ba(Nd <sub>0.1</sub> Ti <sub>0.8</sub> Nb <sub>0.1</sub> )O <sub>3</sub> . Ferroelectrics, 2013, 445, 172-181.	0.6	9
28	Impedance and Raman Spectroscopic Studies on La-modified BLSF Ceramics. Ferroelectrics, 2015, 474, 29-42.	0.6	9
29	Dielectric, impedance and electromechanical studies on [Ba(Nd <sub>0.1</sub> Ti <sub>0.8</sub> Nb <sub>0.1</sub> )O <sub>3</sub> ] <sub>1-y</sub> [Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ] <sub>y</sub> relaxor ceramics prepared through conventional and microwave sintering route. Ferroelectrics, 2017, 506, 63-75.	0.6	9
30	DEGREE OF DIFFUSED PHASE TRANSITION AND NON-DEBYE DIELECTRIC RELAXATION INBa(NdxTi1-2xNbx)O3CERAMICS. Modern Physics Letters B, 2005, 19, 1335-1346.	1.9	8
31	Effect of Simultaneous Substitution of Sm and Pr Ions on Dielectric and Ferroelectric Properties of Strontium Bismuth Titanate. Ferroelectrics, 2013, 445, 121-135.	0.6	8
32	Synthesis of bismuth titanate with urea as fuel by solution combustion route and its dielectric and ferroelectric properties. Optik, 2014, 125, 820-823.	2.9	8
33	Enhanced Electromechanical Properties, Impedance and Modulus of NBT-ST Composite Ceramic Materials. Ferroelectrics, 2015, 481, 21-33.	0.6	8
34	POLARIZATION REVERSAL AND ELECTROMECHANICAL STUDIES ON Ba(NdxTi1-2xNbx)O3 DIELECTRIC RELAXOR CERAMICS PREPARED THROUGH CONVENTIONAL AND MICROWAVE SINTERING ROUTE. Modern Physics Letters B, 2007, 21, 807-816.	1.9	7
35	Effect of Simultaneous Doping of Pr and Sm on Electrical Conductivity and Relaxation Process in BLSF-SrBi4Ti4O15. Ferroelectrics, 2015, 474, 83-98.	0.6	7
36	Effect of SrTiO <sub>3</sub> on dielectric and piezoelectric properties of NBT. Phase Transitions, 2015, 88, 169-182.	1.3	7

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37	Microstructural and high temperature dielectric, ferroelectric and complex impedance spectroscopic properties of BiFeO <sub>3</sub> modified NBT-BT lead free ferroelectric ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 38-44.	3.5	7
38	DIELECTRIC, ELECTROMECHANICAL AND FERROELECTRIC PROPERTIES OF (Na <sub>0.5</sub> Bi <sub>0.5</sub> )(Nd <sub>x</sub> Ti <sub>1-2x</sub> Nb <sub>x</sub> )O <sub>3</sub> RELAXOR CERAMICS. Modern Physics Letters B, 2008, 22, 1343-1355.	1.9	6
39	Characterization of Piezoelectric Ceramic [Ba(Nd <sub>0.1</sub> Ti <sub>0.8</sub> Nb <sub>0.1</sub> )O <sub>3</sub> ] <sub>0.40</sub> [Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ] <sub>0.40</sub> [CaTiO <sub>3</sub> ] <sub>0.20</sub> . Ferroelectrics, 2015, 482, 121-128.	0.6	6
40	Influence of Ba <sup>2+</sup> Ion Substitution on the Structural, Ferroelectric and Electrical Properties of Nano-Structured Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Lead Free Piezo Ceramics. Transactions of the Indian Ceramic Society, 2018, 77, 30-36.	1.0	6
41	Electrical Relaxation Studies on Lanthanum and Vanadium Modified Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . Ferroelectrics, 2012, 437, 88-102.	0.6	5
42	Dielectric, Ferroelectric, Electromechanical and Impedance Studies on Na <sub>0.5-x</sub> K <sub>x</sub> Bi <sub>0.5-x</sub> Dy <sub>x</sub> TiO <sub>3</sub> Ceramics. Ferroelectrics, 2013, 445, 182-195.	0.6	5
43	High-temperature complex impedance and modulus spectroscopic studies of doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> ferroelectric ceramics. Ionics, 2016, 22, 2363-2377.	2.4	5
44	Dielectric and Impedance Studies on New Bismuth Layered Compound SrBi <sub>3</sub> NbTi <sub>2</sub> O <sub>12</sub> . Ferroelectrics, 2005, 324, 137-143.	0.6	4
45	Raman and electrical studies on Bi <sub>2</sub> SmTiNbO <sub>9</sub> ceramics. Ferroelectrics, 2017, 517, 75-80.	0.6	4
46	Dispersion of Relaxation Times in Impedance Measurements of Na <sub>1-x</sub> K <sub>x</sub> NbO <sub>3</sub> Mixed Ceramic. Ferroelectrics, 2005, 324, 43-47.	0.6	3
47	ELECTROMECHANICAL CHARACTERIZATION OF LANTHANUM-DOPED SODIUM BISMUTH TITANATE CERAMICS. Modern Physics Letters B, 2006, 20, 475-480.	1.9	3
48	Electrical Impedance Characterization of Bi Doped BaTiO <sub>3</sub> Prepared through Chemical Route. Integrated Ferroelectrics, 2010, 116, 151-160.	0.7	3
49	FTIR, dielectric and impedance spectroscopic studies on Bi <sub>[3.25]</sub> La <sub>[0.75]</sub> Ti <sub>[3-x]</sub> Zr <sub>[x]</sub> O <sub>[12]</sub> (x = 0.1, 0.3, 0.5, 0.7 & 1)., 2013, , .		3
50	Electrical studies on Zr-modified Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> : a promising FRAM ceramic. Phase Transitions, 2014, 87, 1246-1254.	1.3	3
51	Study of electrical and ferroelectric properties of Bi <sub>3.4</sub> Ce <sub>0.6</sub> Ti <sub>2.4</sub> Zr <sub>0.6</sub> O <sub>12</sub> ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 9342-9349.	2.2	3
52	Understanding Electro-caloric Effect of NBT-ST Using Differential Impedance Analysis. Materials Today: Proceedings, 2016, 3, 470-478.	1.8	3
53	Dielectric, impedance relaxation and DC resistivity studies on microwave sintered Ba <sub>1-x</sub> Re <sub>x</sub> TiO <sub>3</sub> (Re = Nd&Pr) ceramics using 5% SiO <sub>2</sub> as sintering aid. Ferroelectrics, 2018, 526, 46-54.	0.6	3
54	Electromechanical and AC conductivity studies on Na <sub>(0.5-x)</sub> K <sub>x</sub> Bi <sub>(0.5-x)</sub> Dy <sub>x</sub> TiO <sub>3</sub> piezoelectric ceramics. Ferroelectrics, 2018, 526, 61-67.	0.6	3

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55	Sintering temperature dependant dielectric and piezoelectric properties of barium titanate based piezoceramics. Journal of Physics: Conference Series, 2019, 1172, 012099.	0.4	3
56	Simulation of polarization data using modified Glazounov equation (T & E simultaneously) of barium titanate based normal and relaxor ferroelectrics. Ferroelectrics, 2020, 568, 155-160.	0.6	3
57	Direct estimation of the activation energy and relaxation times from the anomalies observed in the dielectric, AC and DC resistivity data using modified Lorentz equation. SN Applied Sciences, 2020, 2, 1.	2.9	3
58	Impedance and Pyroelectric Measurements on $\text{Dy}_{0.75}\text{Bi}_{3.25}\text{Ti}_{2.9625}\text{Nb}_{0.03}\text{O}_{12}$ Ceramics. Ferroelectrics, 2009, 386, 22-35.	0.6	2
59	Study of influence of fuel on dielectric and ferroelectric properties of bismuth titanate ceramics synthesized using solution based combustion technique. Materials Research Express, 2015, 2, 036302.	1.6	2
60	Modelling of the resonance and anti-resonance behaviour in free and clamped state of $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{1-x}[(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3]_x$ piezoelectric ceramics. Ferroelectrics, 2017, 507, 102-108.	0.6	2
61	Study of dielectric and resonance and anti-resonance property of dielectric relaxor ceramic: $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.50}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_{0.40}[\text{CaTiO}_3]_{0.10}$ . Ferroelectrics, 2017, 506, 184-192.	0.6	2
62	Electrical studies on double rare earth modified $\text{Bi}_6\text{Fe}_2\text{Ti}_3\text{O}_{18}$ . Ferroelectrics, 2017, 514, 61-69.	0.6	2
63	Dielectric relaxor, impedance relaxor, PTCR and electromechanical effects in multifunctional ceramic: $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.65}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_{0.25}[\text{BaZrO}_3]_{0.10}$ . Ferroelectrics, 2017, 514, 43-49.	0.6	2
64	Influence of samarium substitution on the ferroelectricity of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ ceramic. Ferroelectrics, 2017, 517, 41-45.	0.6	2
65	Dielectric, impedance and resistivity studies on $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.40}[(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3]_{0.40}[\text{CaTiO}_3]_{0.20}$ piezoelectric ceramic. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114823.	3.5	2
66	EFFECT OF TANTALUM ON FERROELECTRIC PHASE TRANSITION BEHAVIOR OF $\text{SrBi}_4\text{Ti}_4\text{O}_{15}$ SINTERED DISCS. Modern Physics Letters B, 2009, 23, 1479-1488.	1.9	1
67	Electrical and Pyroelectric Measurements on Charge Imbalanced $\text{Sr}_2\text{Bi}_2\text{Nb}_3\text{O}_{12}$ Sol-Gel Ceramic. Ferroelectrics, 2013, 447, 126-135.	0.6	1
68	Relaxation in $\text{BaBi}_x\text{Ti}_{(1-x)}\text{O}_3$ Disordered Dielectric Composite Materials. Ferroelectrics, 2014, 460, 162-172.	0.6	1
69	Studies on $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.50}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_{0.40}[\text{CaTiO}_3]_{0.10}$ ceramic for transducer application. Ferroelectrics, 2018, 524, 201-207.	0.6	1
70	Electromechanical coupling, AC and DC resistivity simulation studies on $[\text{Ba}(\text{Nd}_{0.075}\text{Ti}_{0.85}\text{Nb}_{0.075})\text{O}_3]_{0.30}[(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3]_{0.70}$ piezoelectric ceramic. Ferroelectrics, 2020, 568, 39-46.	0.6	1
71	Enhanced dielectric and piezoelectric properties in multi-ferroic ceramics $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{(1-x)}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_x$ . SN Applied Sciences, 2020, 2, 1.	2.9	1
72	TRANSITION OF MODIFIED LAYERED STRUCTURED BISMUTH TITANATE FROM NORMAL TO RELAXOR FERROELECTRIC STATE. Modern Physics Letters B, 2006, 20, 1597-1606.	1.9	0

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73	Impedance and Pyroelectric Measurements on $\text{Sm}^{3+}/\text{Dy}^{3+}$ and $\text{Nb}^{5+}$ Modified $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Ceramic. <i>Integrated Ferroelectrics</i> , 2010, 118, 76-85.	0.7	0
74	Synthesis and Dielectric Properties of Novel $\text{BaBi}_x\text{Ti}_{1-x}\text{O}_{3-\delta}$ Ceramics. <i>Ferroelectrics</i> , 2011, 413, 357-370.	0.6	0
75	Impedance and pyroelectric measurements on charge imbalanced BLSF sol-gel ceramic. , 2012, , .		0
76	A New Equation to Completely Describe the Dielectric and Impedance Behaviour of $\text{Ba}(\text{Nd}_x\text{Ti}_{1-2x}\text{Nb}_x)\text{O}_3$ Relaxor Ferroelectric Compounds with Frequency and Temperature Simultaneously. <i>Ferroelectrics</i> , 2015, 474, 74-82.	0.6	0
77	Microfiber growth and characterization of $\text{NaNbO}_3$ - $\text{KNbO}_3$ ceramics. <i>Ferroelectrics</i> , 2017, 517, 128-135.	0.6	0
78	Enhanced dielectric and piezoelectric properties in microwave sintered ( $\text{Ba}_{0.997}$ ) $\text{Tj ETQqO O O rgBT /Overlock 10 TF 5$	1.7	0
79	New higher temperature and high performance barium titanate and sodium bismuth titanate based piezoelectric ceramics. <i>Ferroelectrics</i> , 2020, 554, 150-159.	0.6	0
80	Ozone and NaCl Based Electrolytic Solar Cell; It's Working Principle, Advantages and Possibilities. <i>Transactions on Electrical and Electronic Materials</i> , 2021, 22, 536-542.	1.9	0