

Gobburu Skumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7217012/publications.pdf>

Version: 2024-02-01

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	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
2	Ozone and NaCl Based Electrolytic Solar Cell; It's Working Principle, Advantages and Possibilities. Transactions on Electrical and Electronic Materials, 2021, 22, 536-542.	1.9	0
3	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
4	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
5	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
6	New higher temperature and high performance barium titanate and sodium bismuth titanate based piezoelectric ceramics. Ferroelectrics, 2020, 554, 150-159.	0.6	0
7	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
8	Simulation of dielectric and resonance and anti-resonance data using modified Lorentz equation (T) $T_j \text{ETQ} q_0 \text{O} \text{O} \text{rgBT} / \text{Overlock } 10 \text{Tf } 5$. Materials Science, 2019, 42, 1.	1.7	11
9	Sintering temperature dependant dielectric and piezoelectric properties of barium titanate based piezoceramics. Journal of Physics: Conference Series, 2019, 1172, 012099.	0.4	3
10	Enhanced dielectric and piezoelectric properties in microwave sintered ($\text{Ba}_{0.997}$) $T_j \text{ETQ} q_0 \text{O} \text{O} \text{rgBT} / \text{Overlock } 10 \text{Tf } 5$.	1.7	0
11	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
12	Microstructural and high temperature dielectric, ferroelectric and complex impedance spectroscopic properties of BiFeO ₃ 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
13	Dielectric, impedance relaxation and DC resistivity studies on microwave sintered $\text{Ba}_{1-x}\text{Re}_x\text{TiO}_3$ (Re = Nd&Pr) ceramics using 5% SiO ₂ as sintering aid. Ferroelectrics, 2018, 526, 46-54.	0.6	3
14	Influence of Ba ²⁺ Ion Substitution on the Structural, Ferroelectric and Electrical Properties of Nano-Structured Na _{0.5} Bi _{0.5} TiO ₃ Lead Free Piezo Ceramics. Transactions of the Indian Ceramic Society, 2018, 77, 30-36.	1.0	6
15	Electromechanical and AC conductivity studies on $\text{Na}_{(0.5-x)}\text{K}_x\text{Bi}_{(0.5-x)}\text{Dy}_x\text{TiO}_3$ piezoelectric ceramics. Ferroelectrics, 2018, 526, 61-67.	0.6	3
16	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
17	Dielectric, impedance and electromechanical studies on $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{1-y}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_y$ relaxor ceramics prepared through conventional and microwave sintering route. Ferroelectrics, 2017, 506, 63-75.	0.6	9
18	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

#	ARTICLE	IF	CITATIONS
19	Electrical studies on double rare earth modified $\text{Bi}_{6-x}\text{Fe}_2\text{Ti}_3\text{O}_{18}$. <i>Ferroelectrics</i> , 2017, 514, 61-69.	0.6	2
20	Dielectric relaxor, impedance relaxor, PTCR and electromechanical effects in multifunctional ceramic: $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.65}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_{0.25}[\text{BaZrO}_3]_{0.10}$. <i>Ferroelectrics</i> , 2017, 514, 43-49.	0.6	2
21	Microfiber growth and characterization of NaNbO_3 - KNbO_3 ceramics. <i>Ferroelectrics</i> , 2017, 517, 128-135.	0.6	0
22	Influence of samarium substitution on the ferroelectricity of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ ceramic. <i>Ferroelectrics</i> , 2017, 517, 41-45.	0.6	2
23	Raman and electrical studies on $\text{Bi}_2\text{SmTiNbO}_9$ ceramics. <i>Ferroelectrics</i> , 2017, 517, 75-80.	0.6	4
24	Synthesis and characterization of BaTiO_3 - CoFe_2O_4 composites. <i>Ferroelectrics</i> , 2017, 519, 15-22.	0.6	18
25	High-temperature complex impedance and modulus spectroscopic studies of doped $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - BaTiO_3 ferroelectric ceramics. <i>Ionics</i> , 2016, 22, 2363-2377.	2.4	5
26	Understanding Electro-caloric Effect of NBT-ST Using Differential Impedance Analysis. <i>Materials Today: Proceedings</i> , 2016, 3, 470-478.	1.8	3
27	Effect of B-site isovalent doping on electrical and ferroelectric properties of lead free bismuth titanate ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 93, 91-99.	4.0	12
28	Modified Lorentz and Gauss Equations to Describe the Dielectric Behaviour of $\text{Sr}_{1-2x}\text{Na}_x\text{Nd}_x\text{Bi}_4\text{Ti}_4\text{O}_{15}$ Normal Ferroelectric Compounds. <i>Integrated Ferroelectrics</i> , 2015, 167, 115-122.	0.7	10
29	Study of electrical and ferroelectric properties of $\text{Bi}_{3.4}\text{Ce}_{0.6}\text{Ti}_{2.4}\text{Zr}_{0.6}\text{O}_{12}$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9342-9349.	2.2	3
30	Enhanced Electromechanical Properties, Impedance and Modulus of NBT-ST Composite Ceramic Materials. <i>Ferroelectrics</i> , 2015, 481, 21-33.	0.6	8
31	Characterization of Piezoelectric Ceramic $[\text{Ba}(\text{Nd}_{0.1}\text{Ti}_{0.8}\text{Nb}_{0.1})\text{O}_3]_{0.40}[\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3]_{0.40}[\text{CaTiO}_3]_{0.20}$. <i>Ferroelectrics</i> , 2015, 482, 121-128.	0.6	6
32	Dielectric and Piezoelectric Properties of Microwave Sintered $\text{Ba}_{1-x}\text{Re}_x\text{TiO}_3$ Ceramics. <i>Ferroelectrics</i> , 2015, 486, 175-183.	0.6	13
33	Effect of Simultaneous Doping of Pr and Sm on Electrical Conductivity and Relaxation Process in BLSF- $\text{SrBi}_4\text{Ti}_4\text{O}_{15}$. <i>Ferroelectrics</i> , 2015, 474, 83-98.	0.6	7
34	Study of influence of fuel on dielectric and ferroelectric properties of bismuth titanate ceramics synthesized using solution based combustion technique. <i>Materials Research Express</i> , 2015, 2, 036302.	1.6	2
35	Studies of phase transition and impedance behavior of $\text{Ba}(\text{Zr}, \text{Tj})\text{ETQq1}$ 1 0.784314 rgBT /Overlock 10 T 15 1550002.	2.4	36
36	Impedance and Raman Spectroscopic Studies on La-modified BLSF Ceramics. <i>Ferroelectrics</i> , 2015, 474, 29-42.	0.6	9

#	ARTICLE	IF	CITATIONS
37	A New Equation to Completely Describe the Dielectric and Impedance Behaviour of Ba(Nd _x Ti _{1-2x} Nb _x)O ₃ Relaxor Ferroelectric Compounds with Frequency and Temperature Simultaneously. <i>Ferroelectrics</i> , 2015, 474, 74-82.	0.6	0
38	Impedance analysis and dielectric properties of Ce modified bismuth titanate lead free ceramics synthesized using solution combustion route. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9122-9133.	2.2	20
39	Spectroscopic and electrical studies on Nd ³⁺ , Zr ⁴⁺ ions doped nano-sized BaTiO ₃ ferroelectrics prepared by sol-gel method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 366-372.	3.9	12
40	Effect of SrTiO ₃ on dielectric and piezoelectric properties of NBT. <i>Phase Transitions</i> , 2015, 88, 169-182.	1.3	7
41	Relaxation in BaBi _x Ti _(1-x) O ₃ Disordered Dielectric Composite Materials. <i>Ferroelectrics</i> , 2014, 460, 162-172.	0.6	1
42	Electrical studies on Zr-modified Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ : a promising FRAM ceramic. <i>Phase Transitions</i> , 2014, 87, 1246-1254.	1.3	3
43	Study of Maxwell-Wagner (M ^W) relaxation behavior and hysteresis observed in bismuth titanate layered structure obtained by solution combustion synthesis using dextrose as fuel. <i>Materials Research Bulletin</i> , 2014, 49, 651-656.	5.2	14
44	Synthesis of bismuth titanate with urea as fuel by solution combustion route and its dielectric and ferroelectric properties. <i>Optik</i> , 2014, 125, 820-823.	2.9	8
45	Effect of Simultaneous Substitution of Sm and Pr Ions on Dielectric and Ferroelectric Properties of Strontium Bismuth Titanate. <i>Ferroelectrics</i> , 2013, 445, 121-135.	0.6	8
46	Dielectric relaxation in NBT-ST ceramic composite materials. <i>Ionics</i> , 2013, 19, 1751-1760.	2.4	25
47	Dielectric Relaxor Ceramics Solid Solution of Na _{0.5} Bi _{0.5} TiO ₃ with Ba(Nd _{0.1} Ti _{0.8} Nb _{0.1})O ₃ . <i>Ferroelectrics</i> , 2013, 445, 172-181.	0.6	9
48	Control of ferroelectric phase transition in nano particulate NBT-BT based ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 283-292.	3.5	37
49	Optical properties and preparation of Bismuth Titanate (Bi ₂ TiO ₇) using combustion synthesis technique. <i>Optik</i> , 2013, 124, 2963-2965.	2.9	13
50	Electrical and Pyroelectric Measurements on Charge Imbalanced Sr ₂ Bi ₂ Nb ₃ O ₁₂ Sol-Gel Ceramic. <i>Ferroelectrics</i> , 2013, 447, 126-135.	0.6	1
51	Electrical and X-ray Photoelectron Spectroscopy Study on (Na _{0.5-x} K _x Bi _{0.5-x} Nd _x)TiO ₃ Ceramics. <i>Ferroelectrics</i> , 2013, 445, 161-171.	0.6	17
52	Dielectric, Ferroelectric, Electromechanical and Impedance Studies on Na _{0.5-x} K _x Bi _{0.5-x} Dy _x TiO ₃ Ceramics. <i>Ferroelectrics</i> , 2013, 445, 182-195.	0.6	5
53	FTIR, dielectric and impedance spectroscopic studies on Bi _{3.25} La _{0.75} Ti _{3-x} Zr _x O ₁₂ (x=0.1, 0.3, 0.5, 0.7 & 1). , 2013, , .		3
54	Impedance and pyroelectric measurements on charge imbalanced BLSF sol-gel ceramic. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Electrical Relaxation Studies on Lanthanum and Vanadium Modified Bi _{4-x} Ti _{3-x} O ₁₂ . Ferroelectrics, 2012, 437, 88-102.	0.6	5
56	Dielectric properties of Bismuth Titanate (Bi ₄ Ti ₃ O ₁₂) synthesized using solution combustion route. Physica B: Condensed Matter, 2012, 407, 3813-3817.	2.7	38
57	Synthesis and Dielectric Properties of Novel BaBi _x Ti _{1-x} O ₃ Ceramics. Ferroelectrics, 2011, 413, 357-370.	0.6	0
58	Effect of simultaneous double doping in Ba and Ti sites on dielectric and ferroelectric properties of sol-gel synthesized nano-BaTiO ₃ . Journal of Materials Science: Materials in Electronics, 2011, 22, 1855-1864.	2.2	17
59	Electrical Impedance Characterization of Bi Doped BaTiO ₃ Prepared through Chemical Route. Integrated Ferroelectrics, 2010, 116, 151-160.	0.7	3
60	Impedance and Pyroelectric Measurements on Sm ³⁺ /Dy ³⁺ and Nb ⁵⁺ Modified Bi ₄ Ti ₃ O ₁₂ Ceramic. Integrated Ferroelectrics, 2010, 118, 76-85.	0.7	0
61	EFFECT OF TANTALUM ON FERROELECTRIC PHASE TRANSITION BEHAVIOR OF SrBi ₄ Ti ₄ O ₁₅ SINTERED DISCS. Modern Physics Letters B, 2009, 23, 1479-1488.	1.9	1
62	A-site substitution-controlled dielectric dispersion in lead-free sodium bismuth titanate. Pramana - Journal of Physics, 2009, 72, 999-1009.	1.8	14
63	Electrical studies on A- and B-site-modified Bi ₄ Ti ₃ O ₁₂ ceramic. Ceramics International, 2009, 35, 1057-1062.	4.8	18
64	Impedance and Pyroelectric Measurements on Dy _{0.75} Bi _{3.25} Ti _{2.9625} Nb _{0.03} O ₁₂ Ceramics. Ferroelectrics, 2009, 386, 22-35.	0.6	2
65	Impedance Spectroscopic Studies on Lead Based Perovskite Materials. Ferroelectrics, 2008, 366, 55-66.	0.6	18
66	DIELECTRIC, ELECTROMECHANICAL AND FERROELECTRIC PROPERTIES OF (Na _{0.5} Bi _{0.5})(Nd _x Ti _{1-2x} Nb _x)O ₃ RELAXOR CERAMICS. Modern Physics Letters B, 2008, 22, 1343-1355.	1.9	6
67	POLARIZATION REVERSAL AND ELECTROMECHANICAL STUDIES ON Ba(Nd _x Ti _{1-2x} Nb _x)O ₃ DIELECTRIC RELAXOR CERAMICS PREPARED THROUGH CONVENTIONAL AND MICROWAVE SINTERING ROUTE. Modern Physics Letters B, 2007, 21, 807-816.	1.9	7
68	Impedance spectroscopy and conductivity studies on B site modified (Na _{0.5} Bi _{0.5})(Nd _x Ti _{1-2x} Nb _x)O ₃ ceramics. Journal of Materials Science, 2007, 42, 10275-10283.	3.7	14
69	Dielectric behaviour of microwave sintered rare-earth doped BaTiO ₃ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 36-40.	3.5	22
70	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
71	Impedance and a.c. conductivity studies on Ba(Nd _{0.2} Ti _{0.6} Nb _{0.2})O ₃ ceramic prepared through conventional and microwave sintering route. Bulletin of Materials Science, 2006, 29, 347-355.	1.7	49
72	Bulletin of Materials Science, 2006, 29, 35-41.	1.7	42

#	ARTICLE	IF	CITATIONS
73	Study of dielectric and impedance relaxations in $(\text{Na}_{0.125}\text{Bi}_{0.125}\text{Ba}_{0.65}\text{Ca}_{0.1})(\text{Nd}_{0.065}\text{Ti}_{0.87}\text{Nb}_{0.065})\text{O}_3$ ceramic. <i>Materials Chemistry and Physics</i> , 2006, 99, 276-283.	4.0	10
74	TRANSITION OF MODIFIED LAYERED STRUCTURED BISMUTH TITANATE FROM NORMAL TO RELAXOR FERROELECTRIC STATE. <i>Modern Physics Letters B</i> , 2006, 20, 1597-1606.	1.9	0
75	ELECTROMECHANICAL CHARACTERIZATION OF LANTHANUM-DOPED SODIUM BISMUTH TITANATE CERAMICS. <i>Modern Physics Letters B</i> , 2006, 20, 475-480.	1.9	3
76	Preparation, characterization and impedance study of AgTaMPO ($\text{M}=\text{Al}, \text{Ga}, \text{In}, \text{Cr}, \text{Fe}$ and Y). <i>Solid State Ionics</i> , 2005, 176, 2701-2710.	2.7	21
77	Dispersion of Relaxation Times in Impedance Measurements of $\text{Na}_{1-x}\text{K}_x\text{NbO}_3$ Mixed Ceramic. <i>Ferroelectrics</i> , 2005, 324, 43-47.	0.6	3
78	Dielectric Properties of BaTiO_3 Based Lead Free Relaxor Prepared Through Conventional and Microwave Sintering. <i>Ferroelectrics</i> , 2005, 326, 79-84.	0.6	22
79	Dielectric and Impedance Studies on New Bismuth Layered Compound $\text{SrBi}_3\text{NbTi}_2\text{O}_{12}$. <i>Ferroelectrics</i> , 2005, 324, 137-143.	0.6	4
80	DEGREE OF DIFFUSED PHASE TRANSITION AND NON-DEBYE DIELECTRIC RELAXATION IN $\text{Ba}(\text{Nd}_x\text{Ti}_{1-2x}\text{Nb}_x)\text{O}_3$ CERAMICS. <i>Modern Physics Letters B</i> , 2005, 19, 1335-1346.	1.9	8