

S Rout

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10098/publications.pdf>

Version: 2024-02-01

112
papers

3,038
citations

126858

33
h-index

182361

51
g-index

114
all docs

114
docs citations

114
times ranked

3011
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric, ferroelectric, magnetic and electrical properties of Sm-doped GaFeO ₃ . Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	3
2	Composition dependent crossover from ferroelectric to relaxor-ferroelectric in NBT-ST-KNN ceramics. Current Applied Physics, 2022, 36, 160-170.	1.1	11
3	Enhanced Photocatalytic Oxidation of RhB and MB Using Plasmonic Performance of Ag Deposited on Bi ₂ WO ₆ . Chemistry, 2022, 4, 272-296.	0.9	10
4	A Photocatalytic Hydrolysis and Degradation of Toxic Dyes by Using Plasmonic Metal-Semiconductor Heterostructures: A Review. Chemistry, 2022, 4, 454-479.	0.9	6
5	Effect of Mn-doping on the morphological and electrical properties of (Ba _{0.7} Sr _{0.3}) (Mn _x Ti _{1-x})O ₃ materials for energy storage application. Ceramics International, 2022, 48, 25816-25825.	2.3	11
6	Significant modulation in field-induced energy storage capability of BNKT-BN ceramics. Physica B: Condensed Matter, 2022, 640, 414030.	1.3	1
7	Plasmonic Metal/Semiconductor Heterostructure for Visible Light-Enhanced H ₂ Production. ACS Omega, 2022, 7, 25466-25475.	1.6	8
8	Surface polar charge induced Ni loaded CdS heterostructure nanorod for efficient photo-catalytic hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 16373-16386.	3.8	10
9	Structural and dielectric properties of Cu-doped ZnMoO ₄ ceramic system for enhanced green light emission and potential microwave applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 12881-12889.	1.1	7
10	Decolourization of rhodamine B and methylene blue dyes in the presence of bismuth tungstates: a detailed investigation on the effect of grain size. Bulletin of Materials Science, 2021, 44, 1.	0.8	14
11	Correlating the microstructural, optical, electronic and magnetic properties of Fe _{2-x} Pr _x O ₃ nanoparticles: a defective spinel cubic iron oxide. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	0
12	Ferroelectric and dielectric study in 0.78Na _{0.5} Bi _{0.5} TiO ₃ -0.2SrTiO ₃ -0.02K _{0.5} Na _{0.5} NbO ₃ lead free ceramic. Materials Research Bulletin, 2021, 142, 111407.	2.7	4
13	Mn doped multiferroic in Ga _{0.97} Nd _{0.03} FeO ₃ electroceramics. Journal of Magnetism and Magnetic Materials, 2021, 536, 168121.	1.0	5
14	Structural and proton conductivity study of BaZr _{1-x} RE _x O ₃ (RE = Dy, Sm) ceramics for intermediate temperature solid oxide fuel cell electrolyte. Journal of Solid State Electrochemistry, 2020, 24, 1463-1473.	1.2	6
15	Density dependent ionic transport in polycrystalline SrNb ₂ O ₆ ceramic. Physica B: Condensed Matter, 2020, 579, 411910.	1.3	3
16	Enhancement of electrical energy storage ability by controlling grain size of polycrystalline BaNb ₂ O ₆ for high density capacitor application. Journal of Alloys and Compounds, 2020, 829, 154573.	2.8	9
17	Electronic Structure, Morphological Aspects, and Photocatalytic Discoloration of Three Organic Dyes with MgWO ₄ Powders Synthesized by the Complex Polymerization Method. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 2952-2970.	1.9	11
18	Dielectric and Frequency Dependent Transport Properties of Gadolinium Doped Bismuth Ferrite. Transactions on Electrical and Electronic Materials, 2020, 21, 217-226.	1.0	15

#	ARTICLE	IF	CITATIONS
19	Influence of annealing temperature on the existence of polar domain in uniaxially stretched polyvinylidene-co-hexafluoropropylene for energy harvesting applications. Journal of Applied Physics, 2020, 128, 234104.	1.1	8
20	Effect of hot press temperature on $\sqrt{2}$ -phase, dielectric and ferroelectric properties of solvent casted Poly(vinylidene fluoride) films. Materials Research Express, 2019, 6, 095306.	0.8	37
21	Effect of molybdenum on structural, optical and microwave dielectric properties of copper tungstate. Journal of Materials Science: Materials in Electronics, 2019, 30, 20758-20769.	1.1	4
22	Frequency-dependent ferro-antiferro phase transition and internal bias field influenced piezoelectric response of donor and acceptor doped bismuth sodium titanate ceramics. Journal of Applied Physics, 2019, 126, .	1.1	18
23	Conduction and relaxation phenomena in barium zirconate ceramic in wet N ₂ environment. Journal of Alloys and Compounds, 2019, 811, 152042.	2.8	14
24	Investigation of proton conductivity in Sc and Yb co-doped barium zirconate ceramics. Materials Research Express, 2019, 6, 056305.	0.8	15
25	Structural, piezoelectric and high density energy storage properties of lead-free BNKT-BCZT solid solution. Journal of Alloys and Compounds, 2019, 782, 270-276.	2.8	36
26	Relaxor-ferroelectric BaLnZT (Ln = La, Nd, Sm, Eu, and Sc) ceramics for actuator and energy storage application. Materials Research Express, 2018, 5, 015509.	0.8	7
27	Impact of multiple phases on ferroelectric and piezoelectric performances of BNKT-BZT ceramic. Journal of Materials Science: Materials in Electronics, 2018, 29, 19524-19531.	1.1	9
28	Experimental and theoretical analysis of electronic and optical properties of MgWO ₄ . Journal of Materials Science, 2017, 52, 4934-4943.	1.7	28
29	Correlation between optical properties and environmental parameter of $ZnWO_4$ ceramic using complex chemical bond theory. Journal of Alloys and Compounds. 2017, 726, 1014-1023.	2.8	21
30	Effect of zirconia on the structural and optical properties of strontium titanate ceramic. Ferroelectrics, 2017, 517, 81-89.	0.3	3
31	Phase transition and energy storage properties of BaTiO ₃ -modified Bi _{0.5} (Na _{0.8} K _{0.2}) _{0.5} TiO ₃ ceramics. Ferroelectrics, 2017, 517, 97-103.	0.3	13
32	Concentration-driven structural stability and dielectric dispersion in lead free (Ba _{1-x} Sc _{2x/3})Zr _{0.3} Ti _{0.7} O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 1336-1351.	1.1	3
33	Compositional effect on dielectric and ferroelectric properties of lead free Zr modified BNT ceramic. Ferroelectrics, 2017, 518, 66-72.	0.3	2
34	Large electrostrictive effect in (Ba _{1-x} Gd _{2x/3})Zr _{0.3} Ti _{0.7} O ₃ relaxor towards moderate field actuator and energy storage applications. Journal of Applied Physics, 2016, 120, .	1.1	26
35	Structural and optical properties of dysprosium doped barium zirconium titanate ceramic. Materials Letters, 2016, 185, 415-419.	1.3	6
36	Two Element Magneto-Dielectric Resonator Antenna for Angle Diversity. Frequenz, 2016, 70, .	0.6	0

#	ARTICLE	IF	CITATIONS
37	Induced instability in local structure and ferroelectric polarization of rare earth modified BZT relaxor ceramics. <i>Current Applied Physics</i> , 2016, 16, 989-1000.	1.1	19
38	A CPW-fed quad-directional stacked magneto-dielectric resonator antenna for angle diversity application. <i>Microwave and Optical Technology Letters</i> , 2016, 58, 61-64.	0.9	0
39	Dielectric and ferroelectric properties of samarium substituted $\text{BaBi}_4\text{O}_{15}$ ceramics. <i>Ceramics International</i> , 2016, 42, 8798-8803.	1.3	29
40	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
41	Effect of Neodymium on Optical Bandgap and Microwave Dielectric Properties of Barium Zirconate Ceramic. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1277-1286.	1.1	14
42	Structural refinement, Raman spectroscopy, optical and electrical properties of $(\text{Ba}_{1-x}\text{Sr}_x)\text{MoO}_4$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8319-8335.	1.1	30
43	Order-disorder correlation on local structure and photo-electrical properties of La^{3+} ion modified BZT ceramics. <i>European Physical Journal Plus</i> , 2015, 130, 1.	1.2	31
44	Structural and scaling behavior in relaxor ferroelectric BZT ceramic doped with rare earth europium ion. , 2015, , .		3
45	Comparative study of different feeding mechanisms on thermally stable resonator antenna. , 2015, , .		0
46	Dielectric resonator antenna for angle diversity. , 2015, , .		0
47	MICROWAVE DIELECTRIC PROPERTIES OF $\text{Ni}_{0.2}\text{Cu}_x\text{Zn}_{0.8-x}\text{Fe}_2\text{O}_4$ FOR APPLICATION IN ANTENNA. <i>Progress in Electromagnetics Research B</i> , 2014, 57, 157-175.	1.0	27
48	Structural, optical and dielectric relaxor properties of neodymium doped cubic perovskite $(\text{Ba}_{1-x}\text{Nd}_{2x/3})(\text{Zr}_{0.3}\text{Ti}_{0.7})\text{O}_3$. <i>Solid State Sciences</i> , 2014, 30, 68-77.	1.5	28
49	Structural and dielectric relaxor properties of A-site deficient samarium-doped $(\text{Ba}_{1-x})\text{TjEQq110.784314rgBT/Overlock10Tf50}$	1.7	13
50	Structural, electrical, and optical properties of $(\text{Ba}_{1-x}\text{Nd}_{2x/3})\text{TiO}_3$ ceramics. <i>Phase Transitions</i> , 2014, 87, 157-174.	0.6	12
51	Structural, optical band gap, microwave dielectric properties and dielectric resonant antenna studies of $\text{Ba}(\text{La}_{1-x}\text{La}_{2x/3}\text{ZrO}_3(0 \leq x \leq 0.1))$ ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 615, 1006-1012.	2.8	11
52	Structural and microwave characterization of $\text{Ni}_{0.2}\text{Co}_x\text{Zn}_{0.8-x}\text{Fe}_2\text{O}_4$ for antenna applications. <i>Ceramics International</i> , 2014, 40, 1575-1586.	2.3	85
53	Dielectric-Resonant Antenna Studies of Dysprosium Doped Barium Zirconate Ceramic. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2634-2640.	1.2	3
54	Study of structure, microstructure and giant magnetoresistance in nanogranular FeCuAg thin films with wide concentration range. <i>Journal of Alloys and Compounds</i> , 2013, 563, 197-202.	2.8	3

#	ARTICLE	IF	CITATIONS
55	Characterization and Rietveld Refinement of A-site deficient Lanthanum doped Barium Titanate. Journal of Alloys and Compounds, 2013, 579, 473-484.	2.8	155
56	Solubility limits and microwave dielectric properties of Ca(ZrxTi1-x)O3 solid solution. Journal of Alloys and Compounds, 2013, 546, 216-223.	2.8	25
57	Structural, optical and microwave dielectric properties of Sr1-xCaxWO4 ceramics prepared by the solid state reaction route. Ceramics International, 2013, 39, 9627-9635.	2.3	50
58	Morphotropic phase boundary and electrical properties of 1-x[Bi0.5Na0.5]TiO3-xBa[Zr0.25Ti0.75]O3 lead-free piezoelectric ceramics. Ceramics International, 2013, 39, 4877-4886.	2.3	53
59	Structural investigation and improvement of photoluminescence properties in Ba(ZrxTi1-x)O3 powders synthesized by the solid state reaction method. Materials Chemistry and Physics, 2013, 142, 70-76.	2.0	17
60	Characterization of A-site deficient samarium doped barium titanate. Physica B: Condensed Matter, 2013, 411, 26-34.	1.3	56
61	Structural, optical and microwave dielectric properties of Ba1-xSrxWO4 ceramics prepared by solid state reaction route. Solid State Sciences, 2013, 20, 40-45.	1.5	40
62	Structural, electrical and optical properties of Ba(Ti1-xYb4x/3)O3 ceramics. Ceramics International, 2013, 39, 9511-9524.	2.3	38
63	Photoluminescence Properties of Nanocrystals. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	4
64	Structure, microstructure and dielectric properties of 100-x(Bi0.5Na0.5)TiO3-x[SrTiO3] composites ceramics. Applied Physics A: Materials Science and Processing, 2012, 109, 715-723.	1.1	71
65	Influence of Ball Milling Parameters on the Crystallite Size of Ba(Ti1-xZrx)O3. Ferroelectrics, 2012, 429, 22-30.	0.3	2
66	Structural, microwave dielectric properties and dielectric resonator antenna studies of Sr(ZrxTi1-x)O3 ceramics. Journal of Alloys and Compounds, 2012, 528, 126-134.	2.8	51
67	Diffuse phase transition, piezoelectric and optical study of Bi0.5Na0.5TiO3 ceramic. Bulletin of Materials Science, 2012, 35, 197-202.	0.8	37
68	Structural refinement, optical and microwave dielectric properties of BaZrO3. Ceramics International, 2012, 38, 2129-2138.	2.3	104
69	Dielectric relaxation on Ba1-xBi2x/3Zr0.25Ti0.75O3 ceramic. Materials Chemistry and Physics, 2012, 133, 863-870.	2.0	56
70	Structural, optical and dielectric studies of NixZn1-xFe2O4 prepared by auto combustion route. Physica B: Condensed Matter, 2012, 407, 935-942.	1.3	40
71	Structural, dielectric and electrical properties of BaFe0.5Nb0.5O3 ceramic prepared by solid-state reaction technique. Materials Chemistry and Physics, 2011, 131, 535-539.	2.0	47
72	Thermal, electrical and electrochemical characteristics of Ba1-xSrxCo0.8Fe0.2O3-x cathode material for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 11904-11913.	3.8	66

#	ARTICLE	IF	CITATIONS
73	Rietveld refinement, microstructure, conductivity and impedance properties of Ba[Zr _{0.25} Ti _{0.75}]O ₃ ceramic. Current Applied Physics, 2011, 11, 1282-1293.	1.1	104
74	Effect of process parameters on combined EDTA-citrate synthesis of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ perovskite. Powder Technology, 2011, 209, 98-104.	2.1	65
75	Anisotropic Dielectric and Electrical Properties of Hot-Forged SrBi ₄ Ti ₄ O ₁₅ Ceramics. International Journal of Applied Ceramic Technology, 2010, 7, E114.	1.1	4
76	Structural and dielectric relaxor properties of yttrium-doped Ba(Zr _{0.25} Ti _{0.75})O ₃ ceramics. Materials Chemistry and Physics, 2010, 121, 147-153.	2.0	47
77	Structure and optical properties of [Ba _{1-x} Y _{2x/3}](Zr _{0.25} Ti _{0.75})O ₃ powders. Solid State Sciences, 2010, 12, 1160-1167.	1.5	84
78	Superparamagnetism and giant magnetoresistance in sputtered FeCuAg granular films. Physica B: Condensed Matter, 2010, 405, 345-351.	1.3	7
79	Investigations on the structure, composition and performance of nanocrystalline thin film thermocouples deposited using anodic vacuum arc. Thin Solid Films, 2010, 518, 5839-5854.	0.8	11
80	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). Current Applied Physics, 2010, 10, 305-310.	1.1	28
81	Frequency-temperature response of CaBi ₄ Ti ₄ O ₁₅ ceramic prepared by soft chemical route: Impedance and modulus spectroscopy characterization. Current Applied Physics, 2010, 10, 917-922.	1.1	49
82	Electronic transport in LCMO/BTO composites. Phase Transitions, 2009, 82, 123-130.	0.6	6
83	Electrical anisotropy in the hot-forged CaBi ₄ Ti ₄ O ₁₅ ceramics. Solid State Sciences, 2009, 11, 1144-1149.	1.5	27
84	Phase formation and dielectric study of Bi doped BaTi _{0.75} Zr _{0.25} O ₃ ceramic. Current Applied Physics, 2009, 9, 727-731.	1.1	59
85	Synthesis of (Ba _{0.5} Sr _{0.5})(Ti _{1-x} Zr _x)O ₃ ceramics: Effect of Zr content on room temperature electrical properties. Journal of Electroceramics, 2009, 23, 37-42.	0.8	15
86	Influence of fibre-surface treatment on structural, thermal and mechanical properties of jute fibre and its composite. Bulletin of Materials Science, 2009, 32, 65-76.	0.8	183
87	Structural, electrical and optical properties of boron doped ZnO thin films using LSMCD method at room temperature. Applied Physics A: Materials Science and Processing, 2009, 97, 821-828.	1.1	46
88	Photoluminescence property of powders prepared by solid state reaction and polymeric precursor method. Physica B: Condensed Matter, 2009, 404, 3341-3347.	1.3	44
89	Effect of Dy Substitution on Dielectric Properties of BTZ Relaxor Ceramics. Ferroelectrics, 2009, 385, 6177-6186.	0.3	5
90	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

#	ARTICLE	IF	CITATIONS
91	Influence of BTO phase on structural, magnetic and electrical properties of LCMO. Journal of Alloys and Compounds, 2009, 485, 501-506.	2.8	35
92	Optical and dielectric relaxor behaviour of Ba(Zr _{0.25} Ti _{0.75})O ₃ ceramic explained by means of distorted clusters. Journal Physics D: Applied Physics, 2009, 42, 175414.	1.3	93
93	Phase transition in ABi ₄ Ti ₄ O ₁₅ (A=Ca,Sr,Ba) Aurivillius oxides prepared through a soft chemical route. Journal of Applied Physics, 2009, 105, .	1.1	45
94	Anodic vacuum arc developed nanocrystalline Cu-Ni and Fe-Ni thin film thermocouples. Journal of Applied Physics, 2009, 106, 113717.	1.1	5
95	Dielectric Behavior of Yttrium doped Barium-zirconium-titanate Ceramics. Journal of the Korean Physical Society, 2009, 55, 749-753.	0.3	16
96	Influence of fibre-surface treatment on structural, thermal and mechanical properties of jute. Journal of Materials Science, 2008, 43, 2590-2601.	1.7	76
97	Dielectric and phase transition of BaTi _{0.6} Zr _{0.4} O ₃ ceramics prepared by a soft chemical route. Applied Physics A: Materials Science and Processing, 2008, 91, 101-106.	1.1	21
98	Study of the structural and thermal properties of plasma treated jute fibre. Applied Physics A: Materials Science and Processing, 2008, 92, 283-290.	1.1	11
99	Relaxor behaviour of (Ba _{0.5} Sr _{0.5})(Ti _{0.6} Zr _{0.4})O ₃ ceramics. Bulletin of Materials Science, 2008, 31, 897-901.	0.8	26
100	Effect of neutron irradiation on the structural, mechanical, and thermal properties of jute fiber. Journal of Applied Polymer Science, 2008, 110, 413-423.	1.3	4
101	Diffuse phase transition of BaTi _{0.6} Zr _{0.4} O ₃ relaxor ferroelectric ceramics. Phase Transitions, 2008, 81, 129-137.	0.6	4
102	Ferroelectric phase transition of Ba _{1-x} Sr _x Ti _{0.6} Zr _{0.4} O ₃ ceramics. Phase Transitions, 2008, 81, 897-906.	0.6	3
103	Nanogranular Fe-Cu-Ag Thin Films: Structure, Microstructure and Giant Magnetoresistance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2964-2970.	0.9	2
104	Structure, Morphology and Magnetization of Fe-Pd Thin Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 4238-4242.	0.9	2
105	Dielectric properties and diffuse phase transition in Ba _{1-x} Mg _x Ti _{0.6} Zr _{0.4} O ₃ solid solutions. Materials Chemistry and Physics, 2007, 101, 428-432.	2.0	47
106	Synthesis of (Ba _{1-x} Sr _x)(Ti _{0.5} Zr _{0.5})O ₃ ceramics and effect of Sr content on room temperature dielectric properties. Journal of Electroceramics, 2007, 18, 33-37.	0.8	14
107	Phase formation and dielectric phase transition in Ba _{1-x} Ca _x Ti _{0.6} Zr _{0.4} O ₃ solid solutions. Journal of Physics and Chemistry of Solids, 2006, 67, 2257-2262.	1.9	23
108	SrTiO ₃ -SrZrO ₃ solid solution: Phase formation kinetics and mechanism through solid-oxide reaction. Materials Research Bulletin, 2005, 40, 1187-1193.	2.7	20

#	ARTICLE	IF	CITATIONS
109	On the formation mechanism of BaTiO ₃ –BaZrO ₃ solid solution through solid-oxide reaction. Materials Letters, 2005, 59, 135-138.	1.3	52
110	Study on electrical properties of Ni-doped SrTiO ₃ ceramics using impedance spectroscopy. Bulletin of Materials Science, 2005, 28, 275-279.	0.8	25
111	Grain and Grain-Boundary Study of Acceptor Doped SrTiO ₃ Ceramics Using Impedance Spectroscopy. Ferroelectrics, 2005, 323, 79-84.	0.3	4
112	The Mystery of Dimensional Effects in Ferroelectricity. , 0, , .		0