

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	Influence of fibre-surface treatment on structural, thermal and mechanical properties of jute fibre and its composite. <i>Bulletin of Materials Science</i> , 2009, 32, 65-76.	0.8	183
2	Characterization and Rietveld Refinement of A-site deficient Lanthanum doped Barium Titanate. <i>Journal of Alloys and Compounds</i> , 2013, 579, 473-484.	2.8	155
3	Rietveld refinement, microstructure, conductivity and impedance properties of Ba[Zr _{0.25} Ti _{0.75}]O ₃ ceramic. <i>Current Applied Physics</i> , 2011, 11, 1282-1293.	1.1	104
4	Structural refinement, optical and microwave dielectric properties of BaZrO ₃ . <i>Ceramics International</i> , 2012, 38, 2129-2138.	2.3	104
5	Impedance spectroscopy and morphology of SrBi ₄ Ti ₄ O ₁₅ ceramics prepared by soft chemical method. <i>Journal of Alloys and Compounds</i> , 2009, 477, 706-711.	2.8	98
6	Optical and dielectric relaxor behaviour of Ba(Zr _{0.25} Ti _{0.75})O ₃ ceramic explained by means of distorted clusters. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 175414.	1.3	93
7	Structural and microwave characterization of Ni _{0.2} Co _x Zn _{0.8-γ} Fe ₂ O ₄ for antenna applications. <i>Ceramics International</i> , 2014, 40, 1575-1586.	2.3	85
8	Structure and optical properties of [Ba _{1-γ} (Zr _{0.25} Ti _{0.75})O ₃ powders. <i>Solid State Sciences</i> , 2010, 12, 1160-1167.	1.5	84
9	Influence of fibre-surface treatment on structural, thermal and mechanical properties of jute. <i>Journal of Materials Science</i> , 2008, 43, 2590-2601.	1.7	76
10	Structure, microstructure and dielectric properties of 100 γ (Bi _{0.5} Na _{0.5})TiO ₃ γ [SrTiO ₃] composites ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 715-723.	1.1	71
11	Thermal, electrical and electrochemical characteristics of Ba _{1-γ} Sr _{γ} Co _{0.8} Fe _{0.2} O ₃ γ cathode material for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11904-11913.	3.8	66
12	Effect of process parameters on combined EDTA-citrate synthesis of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ γ perovskite. <i>Powder Technology</i> , 2011, 209, 98-104.	2.1	65
13	Phase formation and dielectric study of Bi doped BaTi _{0.75} Zr _{0.25} O ₃ ceramic. <i>Current Applied Physics</i> , 2009, 9, 727-731.	1.1	59
14	Dielectric relaxation on Ba _{1-γ} Bi _{2γ} /3Zr _{0.25} Ti _{0.75} O ₃ ceramic. <i>Materials Chemistry and Physics</i> , 2012, 133, 863-870.	2.0	56
15	Characterization of A-site deficient samarium doped barium titanate. <i>Physica B: Condensed Matter</i> , 2013, 411, 26-34.	1.3	56
16	Morphotropic phase boundary and electrical properties of 1 γ [Bi _{0.5} Na _{0.5}]TiO ₃ γ Ba[Zr _{0.25} Ti _{0.75}]O ₃ lead-free piezoelectric ceramics. <i>Ceramics International</i> , 2013, 39, 4877-4886.	2.3	53
17	On the formation mechanism of BaTiO ₃ γ BaZrO ₃ solid solution through solid-oxide reaction. <i>Materials Letters</i> , 2005, 59, 135-138.	1.3	52
18	Structural, microwave dielectric properties and dielectric resonator antenna studies of Sr(Zr _{γ} Ti _{1-γ})O ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2012, 528, 126-134.	2.8	51

#	ARTICLE	IF	CITATIONS
19	Structural, optical and microwave dielectric properties of Sr $_{1-x}$ CaxWO $_4$ ceramics prepared by the solid state reaction route. Ceramics International, 2013, 39, 9627-9635.	2.3	50
20	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
21	Dielectric properties and diffuse phase transition in Ba $_{1-x}$ MgxTi $_{0.6}$ Zr $_{0.4}$ O $_3$ solid solutions. Materials Chemistry and Physics, 2007, 101, 428-432.	2.0	47
22	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
23	Structural, dielectric and electrical properties of BaFe $_{0.5}$ Nb $_{0.5}$ O $_3$ ceramic prepared by solid-state reaction technique. Materials Chemistry and Physics, 2011, 131, 535-539.	2.0	47
24	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
25	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
26	Photoluminescence property of powders prepared by solid state reaction and polymeric precursor method. Physica B: Condensed Matter, 2009, 404, 3341-3347.	1.3	44
27	Structural, optical and dielectric studies of Ni $_x$ Zn $_{1-x}$ Fe $_2$ O $_4$ prepared by auto combustion route. Physica B: Condensed Matter, 2012, 407, 935-942.	1.3	40
28	Structural, optical and microwave dielectric properties of Ba $_{1-x}$ SrxWO $_4$ ceramics prepared by solid state reaction route. Solid State Sciences, 2013, 20, 40-45.	1.5	40
29	Structural, electrical and optical properties of Ba(Ti $_{1-x}$ Yb $_{4x/3}$)O $_3$ ceramics. Ceramics International, 2013, 39, 9511-9524.	2.3	38
30	Diffuse phase transition, piezoelectric and optical study of BiO \cdot 5NaO \cdot 5TiO $_3$ ceramic. Bulletin of Materials Science, 2012, 35, 197-202.	0.8	37
31	Effect of hot press temperature on ρ -phase, dielectric and ferroelectric properties of solvent casted Poly(vinylidene fluoride) films. Materials Research Express, 2019, 6, 095306.	0.8	37
32	Structural, piezoelectric and highdensity energy storage properties of lead-free BNKT-BCZT solid solution. Journal of Alloys and Compounds, 2019, 782, 270-276.	2.8	36
33	Influence of BTO phase on structural, magnetic and electrical properties of LCMO. Journal of Alloys and Compounds, 2009, 485, 501-506.	2.8	35
34	Order-disorder correlation on local structure and photo-electrical properties of La $^{3+}$ ion modified BZT ceramics. European Physical Journal Plus, 2015, 130, 1.	1.2	31
35	Structural refinement, Raman spectroscopy, optical and electrical properties of (Ba $_{1-x}$ Srx)MoO $_4$ ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 8319-8335.	1.1	30
36	Dielectric and ferroelectric properties of samarium substituted $\text{BaBi}_4\text{Ti}_4\text{O}_{15}$ ceramic. Ceramics International, 2016, 42, 8798-8803.	1.3	29

#	ARTICLE	IF	CITATIONS
55	Synthesis of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ ceramics: Effect of Zr content on room temperature electrical properties. <i>Journal of Electroceramics</i> , 2009, 23, 37-42.	0.8	15
56	Investigation of proton conductivity in Sc and Yb co-doped barium zirconate ceramics. <i>Materials Research Express</i> , 2019, 6, 056305.	0.8	15
57	Dielectric and Frequency Dependent Transport Properties of Gadolinium Doped Bismuth Ferrite. <i>Transactions on Electrical and Electronic Materials</i> , 2020, 21, 217-226.	1.0	15
58	Synthesis of $(\text{Ba}_{1-x}\text{Sr}_x)(\text{Ti}_{0.5}\text{Zr}_{0.5})\text{O}_3$ ceramics and effect of Sr content on room temperature dielectric properties. <i>Journal of Electroceramics</i> , 2007, 18, 33-37.	0.8	14
59	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
60	Conduction and relaxation phenomena in barium zirconate ceramic in wet N ₂ environment. <i>Journal of Alloys and Compounds</i> , 2019, 811, 152042.	2.8	14
61	Decolourization of rhodamine B and methylene blue dyes in the presence of bismuth tungstates: a detailed investigation on the effect of grain size. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	14
62	Structural and dielectric relaxor properties of A-site deficient samarium-doped $(\text{Ba}_{1-x}\text{Tm}_x)\text{TiO}_3$ ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 704, 115-120.	1.7	13
63	Phase transition and energy storage properties of BaTiO_3 -modified $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})_{0.5}\text{TiO}_3$ ceramics. <i>Ferroelectrics</i> , 2017, 517, 97-103.	0.3	13
64	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
65	Study of the structural and thermal properties of plasma treated jute fibre. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 283-290.	1.1	11
66	Investigations on the structure, composition and performance of nanocrystalline thin film thermocouples deposited using anodic vacuum arc. <i>Thin Solid Films</i> , 2010, 518, 5839-5854.	0.8	11
67	Structural, optical band gap, microwave dielectric properties and dielectric resonant antenna studies of $\text{Ba}(\text{La}_x)\text{La}(2x/3)\text{ZrO}_3(0 \leq x \leq 0.1)$ ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 615, 1006-1012.	2.8	11
68	Electronic Structure, Morphological Aspects, and Photocatalytic Discoloration of Three Organic Dyes with MgWO_4 Powders Synthesized by the Complex Polymerization Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2952-2970.	1.9	11
69	Composition dependent crossover from ferroelectric to relaxor-ferroelectric in NBT-ST-KNN ceramics. <i>Current Applied Physics</i> , 2022, 36, 160-170.	1.1	11
70	Effect of Mn-doping on the morphological and electrical properties of $(\text{Ba}_{0.7}\text{Sr}_{0.3})(\text{Mn}_x\text{Ti}_{1-x})\text{O}_3$ materials for energy storage application. <i>Ceramics International</i> , 2022, 48, 25816-25825.	2.3	11
71	Surface polar charge induced Ni loaded CdS heterostructure nanorod for efficient photo-catalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16373-16386.	3.8	10
72	Enhanced Photocatalytic Oxidation of RhB and MB Using Plasmonic Performance of Ag Deposited on Bi_2WO_6 . <i>Chemistry</i> , 2022, 4, 272-296.	0.9	10

#	ARTICLE	IF	CITATIONS
73	Impact of multiple phases on ferroelectric and piezoelectric performances of BNKTâ€“BZT ceramic. Journal of Materials Science: Materials in Electronics, 2018, 29, 19524-19531.	1.1	9
74	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
75	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
76	Plasmonic Metal/Semiconductor Heterostructure for Visible Light-Enhanced H ₂ Production. ACS Omega, 2022, 7, 25466-25475.	1.6	8
77	Superparamagnetism and giant magnetoresistance in sputtered FeCuAg granular films. Physica B: Condensed Matter, 2010, 405, 345-351.	1.3	7
78	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
79	Structural and dielectric properties of Cu-doped $\hat{\pm}$ -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
80	Electronic transport in LCMO/BTO composites. Phase Transitions, 2009, 82, 123-130.	0.6	6
81	Structural and optical properties of dysprosium doped barium zirconium titanate ceramic. Materials Letters, 2016, 185, 415-419.	1.3	6
82	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
83	A Photocatalytic Hydrolysis and Degradation of Toxic Dyes by Using Plasmonic Metalâ€“Semiconductor Heterostructures: A Review. Chemistry, 2022, 4, 454-479.	0.9	6
84	Effect of Dy Substitution on Dielectric Properties of BTZ Relaxor Ceramics. Ferroelectrics, 2009, 385, 6177-6186.	0.3	5
85	Anodic vacuum arc developed nanocrystalline Cuâ€“Ni and Feâ€“Ni thin film thermocouples. Journal of Applied Physics, 2009, 106, 113717.	1.1	5
86	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
87	Grain and Grain-Boundary Study of Acceptor Doped SrTiO ₃ Ceramics Using Impedance Spectroscopy. Ferroelectrics, 2005, 323, 79-84.	0.3	4
88	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
89	Diffuse phase transition of BaTi _{0.6} Zr _{0.4} O ₃ relaxor ferroelectric ceramics. Phase Transitions, 2008, 81, 129-137.	0.6	4
90	Anisotropic Dielectric and Electrical Properties of Hotâ€“Forged SrBi ₄ Ti ₄ O ₁₅ Ceramics. International Journal of Applied Ceramic Technology, 2010, 7, E114.	1.1	4

#	ARTICLE	IF	CITATIONS
91	Photoluminescence Properties of Nanocrystals. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	4
92	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
93	Ferroelectric and dielectric study in 0.78Na0.5Bi0.5TiO3-0.2SrTiO3-0.02K0.5Na0.5NbO3 lead free ceramic. Materials Research Bulletin, 2021, 142, 111407.	2.7	4
94	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
95	Dielectric-Resonant Antenna Studies of Dysprosium Doped Barium Zirconate Ceramic. Journal of Materials Engineering and Performance, 2013, 22, 2634-2640.	1.2	3
96	Study of structure, microstructure and giant magnetoresistance in nanogranular FeCuAg thin films with wide concentration range. Journal of Alloys and Compounds, 2013, 563, 197-202.	2.8	3
97	Structural and scaling behavior in relaxor ferroelectric BZT ceramic doped with rare earth europium ion. , 2015, , .		3
98	Effect of zirconia on the structural and optical properties of strontium titanate ceramic. Ferroelectrics, 2017, 517, 81-89.	0.3	3
99	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
100	Density dependent ionic transport in polycrystalline SrNb ₂ O ₆ ceramic. Physica B: Condensed Matter, 2020, 579, 411910.	1.3	3
101	Dielectric, ferroelectric, magnetic and electrical properties of Sm-doped GaFeO ₃ . Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	3
102	Nanogranular Fe-Cu-Ag Thin Films: Structure, Microstructure and Giant Magnetoresistance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2964-2970.	0.9	2
103	Structure, Morphology and Magnetization of Fe-Pd Thin Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 4238-4242.	0.9	2
104	Influence of Ball Milling Parameters on the Crystallite Size of Ba(Ti _{1-x} Zr _x)O ₃ . Ferroelectrics, 2012, 429, 22-30.	0.3	2
105	Compositional effect on dielectric and ferroelectric properties of lead free Zr modified BNT ceramic. Ferroelectrics, 2017, 518, 66-72.	0.3	2
106	Significant modulation in field-induced energy storage capability of BNKT-BN ceramics. Physica B: Condensed Matter, 2022, 640, 414030.	1.3	1
107	Comparative study of different feeding mechanisms on thermally stable resonator antenna. , 2015, , .		0
108	Dielectric resonator antenna for angle diversity. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
109	Two Element Magneto-Dielectric Resonator Antenna for Angle Diversity. Frequenz, 2016, 70, .	0.6	0
110	A CPW-fed quad-directional stacked magneto-dielectric resonator antenna for angle diversity application. Microwave and Optical Technology Letters, 2016, 58, 61-64.	0.9	0
111	Correlating the microstructural, optical, electronic and magnetic properties of $\hat{\Gamma}^3$ -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
112	The Mystery of Dimensional Effects in Ferroelectricity. , 0, , .		0