Sujata Sanghi

List of Publications by Year
in descending order

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103	2,612	172457	206112
papers	citations	29 h-index	48 g-index

103	103	103	2178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Bi2O3 content on the optical band gap, density and electrical conductivity of MOÂ·Bi2O3Â·B2O3 (M=Ba, Sr) glasses. Materials Chemistry and Physics, 2005, 90, 83-89.	4.0	147
2	Dielectric relaxation, conductivity behavior and magnetic properties of Mg substituted Znâ€“Li ferrites. Current Applied Physics, 2011, 11, 783-789.	2.4	137
3	Juddâ€“Ofelt parameters and radiative properties of Sm3+ ions doped zinc bismuth borate glasses. Optical Materials, 2009, 32, 339-344.	3.6	136
4	Rietveld analysis, dielectric and magnetic properties of Sr and Ti codoped BiFeO3 multiferroic. Journal of Applied Physics, 2011, 110, .	2.5	132
5	Influence of Bi2O3 on thermal, structural and dielectric properties of lithium zinc bismuth borate glasses. Journal of Alloys and Compounds, 2014, 597, 110-118.	5.5	97
6	Rietveld refinement, electrical properties and magnetic characteristics of Caâ€“Sr substituted barium hexaferrites. Journal of Alloys and Compounds, 2012, 513, 436-444.	5.5	77
7	Synthesis, microstructure, dielectric and magnetic properties of Cu substituted Niâ€“Li ferrites. Journal of Magnetism and Magnetic Materials, 2011, 323, 486-492.	2.3	75
8	Effect of magnesium substitution on dielectric and magnetic properties of Niâ€“Zn ferrite. Physica B: Condensed Matter, 2011, 406, 687-692.	2.7	71
9	Dielectric loss, conductivity relaxation process and magnetic properties of Mg substituted Niâ€“Cu ferrites. Journal of Magnetism and Magnetic Materials, 2012, 324, 2506-2511.	2.3	70
10	Phase transformation, dielectric and magnetic properties of Nb doped Bi0.8Sr0.2FeO3 multiferroics. Journal of Applied Physics, 2012, 111, .	2.5	67
11	Rietveld refinement and impedance spectroscopy of calcium titanate. Current Applied Physics, 2012, 12, 1429-1435.	2.4	61
12	Study of optical band gap and FTIR spectroscopy of Li2OÂ·Bi2O3Â·P2O5 glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 673-677.	3.9	60
13	Structural transformation and improved dielectric and magnetic properties in Ti-substituted Bi_{0.8}La_{0.2}FeO₃ multiferroics. Journal Physics D: Applied Physics, 2012, 45, 165001.	2.8	60
14	Crystal structure transformation, dielectric and magnetic properties of Ba and Co modified BiFeO3 multiferroic. Journal of Alloys and Compounds, 2014, 594, 175-181.	5.5	57
15	Improved dielectric and magnetic properties of Ti modified BiCaFeO3 multiferroic ceramics. Journal of Applied Physics, 2013, 113, .	2.5	54
16	Influence of Nb2O5 on the structure, optical and electrical properties of alkaline borate glasses. Materials Chemistry and Physics, 2010, 120, 381-386.	4.0	52
17	Structure refinement and dielectric relaxation of M-type Ba, Sr, Ba-Sr, and Ba-Pb hexaferrites. Journal of Applied Physics, 2012, 112, .	2.5	51
18	Structural, absorption and fluorescence spectral analysis of Pr3+ ions doped zinc bismuth borate glasses. Journal of Alloys and Compounds, 2011, 509, 7625-7631.	5.5	47

#	Article	IF	Citations
19	Structural, magnetic and dielectric properties of Sr and V doped BiFeO 3 multiferroics. Journal of Magnetism and Magnetic Materials, 2015, 385, 175-181.	2.3	46
20	Spectroscopic properties of Sm3+ doped lead bismosilicate glasses using Juddâ€“Ofelt theory. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 191-197.	3.9	45
21	Effect of Bi2O3 on nonlinear optical properties of ZnOâ‹…Bi2O3â‹…SiO2 glasses. Optical Materials, 2013, 36, 352-356.	3.6	43
22	Spectroscopic and structural investigations of Er3+ doped zinc bismuth borate glasses. Materials Chemistry and Physics, 2012, 133, 151-158.	4.0	41
23	Effect of Li2O on structure and optical properties of lithium bismosilicate glasses. Journal of Alloys and Compounds, 2009, 480, 516-520.	5.5	40
24	Structural transformation and investigation of dielectric properties of Ca substituted (Na0.5Bi0.5)0.95â^'xBa0.05CaxTiO3 ceramics. Journal of Alloys and Compounds, 2017, 695, 3282-3289.	5.5	39
25	Dielectric relaxation, conductivity behaviour and magnetic properties of Mg substituted Niâ€“Li ferrites. Journal of Alloys and Compounds, 2011, 509, 7543-7548.	5.5	37
26	Crystal structure refinement, dielectric and magnetic properties of Sm modified BiFeO3 multiferroic. Journal of Molecular Structure, 2015, 1097, 207-213.	3.6	32
27	Investigation of spectroscopic properties, structure and luminescence spectra of Sm3+ doped zinc bismuth silicate glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 101, 74-81.	3.9	31
28	Crystal structure and magnetic properties of Bi0.8A0.2FeO3 (A = La, Ca, Sr, Ba) multiferroics using neutron diffraction and Mossbauer spectroscopy. AIP Advances, 2014, 4, .	1.3	31
29	Crystal structure transformation and improved dielectric and magnetic properties of La-substituted BiFeO3 multiferroics. Ceramics International, 2017, 43, 12095-12101.	4.8	30
30	Physical, optical and electrical properties of calcium bismuth borate glasses. Radiation Effects and Defects in Solids, 2004, 159, 369-379.	1.2	29
31	Influence of SiO2 on the structure and optical properties of lithium bismuth silicate glasses. Journal of Molecular Structure, 2010, 963, 82-86.	3.6	29
32	Effect of Zr substitution on phase transformation and dielectric properties of Ba0.9Ca0.1TiO3 ceramics. Journal of Applied Physics, 2013, 114, 164106.	2.5	29
33	Influence of Bi2O3 on physical, electrical and thermal properties of Li2OÂ·ZnOÂ·Bi2O3Â·SiO2 glasses. Journal of Alloys and Compounds, 2015, 619, 659-666.	5.5	28
34	Evolution of structural and magnetic phases in Nd doped BiFeO3 multiferroics with sintering time. Journal of Magnetism and Magnetic Materials, 2017, 442, 200-207.	2.3	28
35	Crystal structure refinement and investigation of electrically heterogeneous microstructure of single phased Sr substituted BaTiO3 ceramics. Journal of Alloys and Compounds, 2013, 575, 109-114.	5.5	27
36	Dielectric properties and conductivity enhancement on heat treatment of bismuth silicate glasses containing TiO2. Physica B: Condensed Matter, 2009, 404, 1648-1654.	2.7	26

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37	Improved structural, dielectric and magnetic properties of Ca2+ and Nb5+ co-substituted BiFeO3 multiferroics. Journal of Alloys and Compounds, 2017, 722, 606-616.	5.5	26
38	Rietveld refinement, impedance spectroscopy and magnetic properties of Bi0.8Sr0.2FeO3 substituted Na0.5Bi0.5TiO3 ceramics. Journal of Magnetism and Magnetic Materials, 2016, 414, 1-9.	2.3	25
39	Effects of Nd3+ and high-valence Nb5+ co-doping on the structural, dielectric and magnetic properties of BiFeO3 multiferroics. Ceramics International, 2018, 44, 7683-7693.	4.8	25
40	Modification of structure and electrical conductivity of cadmium borate glasses in the presence of V2O5. Materials Chemistry and Physics, 2008, 107, 236-243.	4.0	22
41	Effect of Mn doping on crystal structure, dielectric and magnetic ordering of Bi0.8Ba0.2FeO3 multiferroic. Ceramics International, 2016, 42, 5403-5411.	4.8	22
42	Effect of Ba and Ho co-doping on crystal structure, phase transformation, magnetic properties and dielectric properties of BiFeO3. Current Applied Physics, 2019, 19, 321-331.	2.4	22
43	Effect of WO3 on EPR, structure and electrical conductivity of vanadyl doped WO3Â·M2OÂ·B2O3 (M=Li,) Tj ETQq1 1 0.784314 rgBT	2.7	21
44	Conductivity and dielectric relaxation in sodium borosulfate glasses. Journal of Alloys and Compounds, 2009, 472, 40-45.	5.5	20
45	Variation of crystal structure, magnetization, and dielectric properties of Nd and Ba coâ€doped BiFeO₃ multiferroics. International Journal of Applied Ceramic Technology, 2019, 16, 119-129.	2.1	19
46	Conductivity and dielectric relaxation in niobium alkali borate glasses. Physica B: Condensed Matter, 2010, 405, 4919-4924.	2.7	18
47	Crystal structure refinement, enhanced magnetic and dielectric properties of Na 0.5 Bi 0.5 TiO 3 modified Bi 0.8 Ba 0.2 FeO 3 ceramics. Ceramics International, 2017, 43, 4622-4629.	4.8	18
48	Study of crystal structure, dielectric, magnetic and magnetoelecrtic properties of xCoFe2O4-(1-x)Na0.5Bi0.5TiO3 composites. Ceramics International, 2018, 44, 7629-7636.	4.8	18
49	Energy transfer excitation in an N2-laser-pumped coumarin 485-rhodamine B dye mixture through optical gain characteristics. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 68, 77-84.	3.9	16
50	Investigation of crystal structure, dielectric and magnetic properties in La and Nd co-doped BiFeO3 multiferroics. Journal of Magnetism and Magnetic Materials, 2017, 426, 369-374.	2.3	15
51	Crystal structure refinement, dielectric and magnetic properties of A-site and B-site co-substituted Bi0.90Nd0.10Fe1-xTixO3 (x=0.00, 0.02, 0.05 & 0.07) ceramics. Journal of Alloys and Compounds, 2018, 750, 848-856.	5.5	15
52	Crystal structure, dielectric, magnetic and magnetoelectric properties of xNiFe2O4-(1-x)Na0.5Bi0.5TiO3 composites. Journal of Alloys and Compounds, 2018, 748, 1022-1030.	5.5	15
53	Study of structure and optical properties of Fe2O3Â·CaOÂ·Bi2O3 glasses. Journal of Alloys and Compounds, 2009, 488, 454-458.	5.5	14
54	Structural, dielectric and magnetic properties of Cd/Pb doped W-type hexaferrites. Journal of Magnetism and Magnetic Materials, 2014, 349, 121-127.	2.3	14

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55	Investigation of near constant loss contribution to conductivity in lithium bismo-silicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 3767-3772.	3.1	12
56	Effect of doping of vanadium ions on crystal structure, dielectric and magnetic properties of Bi0.8Ba0.2FeO3 multiferroic. Journal of Magnetism and Magnetic Materials, 2016, 406, 76-82.	2.3	12
57	Influence of SiO2 on dispersive conductivity and absorption edge of calcium bismuthate glasses. Solid State Ionics, 2011, 204-205, 20-26.	2.7	11
58	Crystallization kinetics, optical and dielectric properties of Li2Oâ‹…CdOâ‹…Bi2O3â‹…SiO2 glasses. Journal of Molecular Structure, 2015, 1098, 1-11.	3.6	11
59	Sintering time dependent structural and magnetic phase transformations in Pr doped BiFeO3 multiferroics. Journal of Magnetism and Magnetic Materials, 2021, 519, 167412.	2.3	11
60	Production of green electricity from strained BaTiO3 and TiO2 ceramics based hydroelectric cells. Materials Chemistry and Physics, 2021, 262, 124277.	4.0	11
61	Investigation of crystal structure, dielectric properties, impedance spectroscopy and magnetic properties of (1-x)BaTiO3 â€“ (x)Ba0.9Ca0.1 Fe12O19 multiferroic composites. Ceramics International, 2021, 47, 23088-23100.	4.8	11
62	Stretched exponential relaxation and dispersive conductivity behavior in lithium bismuth silicate glasses. Solid State Ionics, 2009, 180, 1356-1361.	2.7	10
63	Influence of Nb₂O₅on the optical band gap and electrical conductivity of Nb₂O₅Â·BaOÂ·B₂O₃. IOP Conference Series: Materials Science and Engineering, 2009, 2, 012041.	0.6	10
64	Crystal structure, dielectric and magnetic properties of Gd doped BiFeO3 multiferroics. Physica B: Condensed Matter, 2018, 550, 414-419.	2.7	10
65	Effect of Bi2O3 on the dynamics of Li+ ions in Li2OÂ·P2O5 glasses. Journal of Materials Science, 2009, 44, 5781-5787.	3.7	9
66	Crystal structure and improved dielectric, magnetic, ferroelectric and magneto-electric properties of xCoFe2O4â^'(1â^'x)BaTiO3 multiferroic composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 13472-13489.	2.2	8
67	Rietveld refinement and electrical properties of Ni-Zn spinel ferrites. AIP Conference Proceedings, 2017, , .	0.4	7
68	Holmium induced structural transformation and improved dielectric and magnetic properties in Bi0.80La0.20FeO3 multiferroics. Journal of Magnetism and Magnetic Materials, 2019, 487, 165337.	2.3	7
69	Influence of SiO2 on conduction and relaxation mechanism of Li+ ions in binary network former lead silicate glasses. Physica B: Condensed Matter, 2013, 414, 103-109.	2.7	6
70	Dielectric characterization of bismuth layered (Bi2O3)(NaxFe1â^'xO3) ceramics. Physica B: Condensed Matter, 2014, 436, 64-73.	2.7	6
71	Optical properties of PS/ZnO nanocomposites foils prepared by casting method. AIP Conference Proceedings, 2019, , .	0.4	6
72	Effect of CaO on the conductivity and dielectric properties of novel Fe2O3Â·CaOÂ·Bi2O3 glasses. Physica B: Condensed Matter, 2010, 405, 3846-3851.	2.7	5

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73	Effect of Nd and Ti doping on crystal structure refinement, optical, dielectric and magnetic properties of Bi_{0.90}Nd_{0.10}FeO₃ multiferroic. Materials Research Express, 2019, 6, 106107.	1.6	5
74	Phase transformation in crystal and magnetic structure and improved dielectric and magnetic properties of Ho substituted BiFeO3multiferroics. AIP Advances, 2019, 9, 025110.	1.3	5
75	Crystal structure, magnetic and dielectric properties of Er-doped BiFeO3 ceramics. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	5
76	Investigation of crystal structure and improved magnetic and dielectric properties of Ti-substituted Bi0.90Ho0.10FeO3 multiferroics. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4
77	Study of (Bi2O3)(BaxMo1â^'xO3) polycrystalline ceramic as relaxor ferroelectric. Physica B: Condensed Matter, 2012, 407, 4752-4759.	2.7	3
78	Crystal structure refinement and magnetic properties of Bi 0.8 Ba 0.2 FeO 3 substituted Na 0.5 Bi 0.5 TiO 3 ceramics. Journal of Molecular Structure, 2016, 1108, 54-59.	3.6	3
79	Influence of Ba2+ ions on defect concentration in bismuth silicate glasses evidenced by FTIR and UV-visible spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3167-3170.	0.8	2
80	Rietveld Refinement and DC Conductivity of Na_{0.5}K_{0.5}NbO₃ Ceramics. Advanced Materials Research, 0, 585, 210-213.	0.3	2
81	Absorbance and Fluorescence Spectral Analysis of Sm³⁺ Ions Doped Bismuth Boro-Silicate Glasses. Advanced Materials Research, 0, 585, 279-283.	0.3	2
82	Structural, dielectric and magnetic characteristics of Mn-substituted Bi0.80Nd0.20FeO3 multiferroics. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
83	Crystal structure, dielectric and magnetic properties of xBaFe₁₂O₁₉-(1â€‰â^'â€‰x)Na_{0.5}Bi_{0.5}TiO₃ composites. Ferroelectrics, 2021, 583, 183-197.	0.6	2
84	Study of linear and non-linear optical properties of Inâ€“Se doped chalcogenide semiconducting glasses. Journal of Materials Science: Materials in Electronics, 2022, 33, 12062-12074.	2.2	2
85	Quenching of fluorescence of Rhodamine 610 in binary and ternary mixture solutions. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 116, 75-78.	3.9	1
86	Investigation Of Dispersive Conductivity And Dielectric Losses In Barium Bismuth Silicate Glasses. , 2011, , .		1
87	Rietveld refinement and dielectric studies of Bi0.8Ba0.2FeO3 ceramic. AIP Conference Proceedings, 2016, , .	0.4	1
88	Improved dielectric and magnetic properties of Co doped Bi0.80Ba0.10Nd0.10Fe1-xCoxO3 (xÂ=Â0.00, 0.01,) Tj ETQq0 0 0 rgBT /Overlo	2.3	1
89	Suppression of photo-darkening effect after exposure of light on Sb doped InSe4 films. European Physical Journal D, 2022, 76, 1.	1.3	1
90	OPTICAL ABSORPTION AND STRUCTURAL STUDIES OF Pr3+ DOPED CADMIUM BISMUTH BORATE GLASSES IN VISIBLE AND NEAR INFRARED REGIONS. International Journal of Modern Physics Conference Series, 2013, 22, 408-415.	0.7	0

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91	Structural, dielectric and magnetic studies of Ba and Nb codoped BiFeO3 multiferroics. AIP Conference Proceedings, 2016, , .	0.4	0
92	Rietveld refinement, dielectric and magnetic properties of Nb modified Bi0.80Ba0.20FeO3 ceramic. AIP Conference Proceedings, 2018, , .	0.4	0
93	Improved multiferroic properties of bismuth ferrite and sodium bismuth titanate based multiferroic composites. AIP Conference Proceedings, 2019, , .	0.4	0
94	Synthesis and characterization of Bi0.85-xNd0.15BaxFeO3 (x = 0.00 and 0.15) ceramics. AIP Conference Proceedings, 2019, , .	0.4	0
95	Study of structural and dielectric properties of Mn doped Bi0.90Pr0.10FeO3 ceramics. AIP Conference Proceedings, 2019, , .	0.4	0
96	Investigation of crystal structure and dielectric response in BaTiO3-BaFe12O19 multiferroic composites. AIP Conference Proceedings, 2019, , .	0.4	0
97	Crystal structure refinement and dielectric studies of Bi0.80-xBa0.20DyxFeO3 (x = 0.05, 0.10) multiferroic. AIP Conference Proceedings, 2019, , .	0.4	0
98	The crystal structure, refinement and dielectric properties of Ba and Mn substituted bismuth ferrite. AIP Conference Proceedings, 2019, , .	0.4	0
99	Structural, dielectric and magnetic properties of (Ho, Ti) modified BFO. AIP Conference Proceedings, 2019, , .	0.4	0
100	Investigation of Multiferroic Properties of Spinel Ferrite (ZnFe₂O₄) and Ferroelectric (Na_{0.5}Bi_{0.5}TiO₃) Composites. Integrated Ferroelectrics, 2019, 201, 163-177.	0.7	0
101	Crystal structure, dielectric and magnetic properties of BaTiO3-CoFe2O4 multiferroic composites. AIP Conference Proceedings, 2021, , .	0.4	0
102	Improved magnetic and electrical characteristics of co doped Bi0.80Ba0.10Nd0.10FeO3 ceramics. AIP Conference Proceedings, 2020, , .	0.4	0
103	Crystal Structure, Rietveld Refinement and Improved Dielectric and Magnetic Properties of Ti Doped Bi_{0.90}Pr_{0.10}Fe₁₋_xTi_xO₃ Multiferroic Ceramics. Integrated Ferroelectrics, 2021, 221, 100-113.	0.7	0