

Sunil Chauhan

List of Publications by Year in descending order

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39
papers

1,011
citations

567281

15
h-index

434195

31
g-index

39
all docs

39
docs citations

39
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroic, magnetoelectric and optical properties of Mn doped BiFeO ₃ nanoparticles. Solid State Communications, 2012, 152, 525-529.	1.9	147
2	Structural, magnetic, and optical properties of Pr and Zr codoped BiFeO ₃ multiferroic ceramics. Journal of Applied Physics, 2012, 112, .	2.5	97
3	Structural, vibrational, optical, magnetic and dielectric properties of Bi ^{1-x} Ba ^x FeO ₃ nanoparticles. Ceramics International, 2013, 39, 6399-6405.	4.8	94
4	Effect of Dy substitution on structural, magnetic and optical properties of BiFeO ₃ ceramics. Journal of Physics and Chemistry of Solids, 2014, 75, 105-108.	4.0	79
5	Substitution driven structural and magnetic transformation in Ca-doped BiFeO ₃ nanoparticles. RSC Advances, 2016, 6, 43080-43090.	3.6	68
6	Structural, magnetic, vibrational and impedance properties of Pr and Ti codoped BiFeO ₃ multiferroic ceramics. Ceramics International, 2014, 40, 7805-7816.	4.8	65
7	Structural, Optical and Multiferroic Properties of BiFeO ₃ Nanoparticles Synthesized by Soft Chemical Route. Journal of Superconductivity and Novel Magnetism, 2013, 26, 443-448.	1.8	59
8	Structural, vibrational, optical and magnetic properties of sol-gel derived Nd doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2013, 24, 5102-5110.	2.2	49
9	A comparative study on structural, vibrational, dielectric and magnetic properties of microcrystalline BiFeO ₃ , nanocrystalline BiFeO ₃ and core-shell structured BiFeO ₃ @SiO ₂ nanoparticles. Journal of Alloys and Compounds, 2016, 666, 454-467.	5.5	46
10	Substitution driven structural and magnetic properties and evidence of spin phonon coupling in Sr-doped BiFeO ₃ nanoparticles. RSC Advances, 2016, 6, 68028-68040.	3.6	34
11	Structural, magnetic and optical properties of Bi ^{1-x} Dy ^x FeO ₃ nanoparticles synthesized by sol-gel method. Materials Letters, 2013, 96, 71-73.	2.6	30
12	Effect of Non-magnetic Ions Substitution on Structural, Magnetic and Optical Properties of BiFeO ₃ Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1867-1871.	1.8	24
13	Evidence of spin-two phonon coupling and improved multiferroic behavior of Bi ^{1-x} Dy ^x FeO ₃ nanoparticles. Ceramics International, 2014, 40, 13347-13356.	4.8	21
14	Raman spectroscopy probed spin-two phonon coupling and improved magnetic and optical properties in Dy and Zr substituted BiFeO ₃ nanoparticles. Journal of Alloys and Compounds, 2017, 692, 236-242.	5.5	19
15	Structural modification and enhanced magnetic properties with two phonon modes in Ca-Co codoped BiFeO ₃ nanoparticles. Ceramics International, 2015, 41, 14306-14314.	4.8	17
16	Influence of Na substitution on structural, magnetic, optical and photocatalytic properties of bismuth ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 20191-20209.	2.2	17
17	Spin-phonon coupling and improved multiferroic properties of Zr substituted BiFeO ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2014, 25, 4286-4299.	2.2	16
18	Ca-Li substitution driven structural, dynamics of electron density, magnetic and optical properties of BiFeO ₃ nanoparticles. Journal of Alloys and Compounds, 2019, 811, 151965.	5.5	15

#	ARTICLE	IF	CITATIONS
19	Structural, magnetic and optical properties of Ho ²⁺ Co codoped BiFeO ₃ nanoparticles. Materials Letters, 2014, 132, 327-330.	2.6	12
20	Structural, optical and photocatalytic properties of Ni doped BiFeO ₃ nanoparticles. Materials Today: Proceedings, 2022, 49, 3015-3021.	1.8	11
21	Effect of Na/Co co-substituted on structural, magnetic, optical and photocatalytic properties of BiFeO ₃ nanoparticles. Materials Chemistry and Physics, 2021, 263, 124402.	4.0	10
22	Influence of novel Cd ²⁺ Ni co-substitution on structural, magnetic, optical and photocatalytic properties of BiFeO ₃ nanoparticles. Journal of Alloys and Compounds, 2022, 894, 162552.	5.5	10
23	Effects of Sm and Cr co-doping on structural, magnetic, optical and photocatalytic properties of BiFeO ₃ nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115859.	3.5	10
24	Rietveld analysis, magnetic, vibrational and impedance properties of (Bi ^{1-x} Pr ^x)(Fe ^{1-x} Zr ^x)O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2013, 24, 5023-5034.	2.2	9
25	Phase transition and optical properties of samarium-doped BiFeO ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 19950-19960.	2.2	8
26	Structural, optical, magnetic, dielectric, and photocatalytic properties of Sm- and Ni-substituted BiFeO ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 7798-7810.	2.2	6
27	Manifestation of multifunction capabilities by stabilizing cadmium together with zinc and aluminum in spinel oxide. Journal of Materials Science: Materials in Electronics, 2021, 32, 15317-15330.	2.2	6
28	Crystal structure refinement and magnetic properties of Sm ³⁺ doped BiFeO ₃ nanoparticles. Physica B: Condensed Matter, 2022, 624, 413374.	2.7	6
29	Structural, magnetic, dielectric, vibrational and optical properties of Zr substituted Bi _{0.90} Gd _{0.10} FeO ₃ multiferroics. Journal of Alloys and Compounds, 2018, 735, 684-691.	5.5	5
30	Band-gap tuning and magnetic properties of heterovalent ions (Ba, Sr and Ca) substituted BiFeO ₃ nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	4
31	Recent advances on magnetoelectric coupling in BiFeO ₃ : Technological achievements and challenges. Materials Today: Proceedings, 2022, 49, 3046-3049.	1.8	4
32	Structural, raman, dielectric, magnetic and magnetoelectric properties of Ba and Mn doped BiFeO ₃ nanoparticles. , 2013, , .		3
33	Size dependent structural, vibrational and magnetic properties of BiFeO ₃ and core-shell structured BiFeO ₃ @SiO ₂ nanoparticles. , 2014, , .		3
34	Synthesis and characterization of samarium substituted bismuth ferrites nanoparticles. Materials Today: Proceedings, 2021, 34, 813-816.	1.8	3
35	Structural, magnetic, optical, and photocatalytic properties of Ca ²⁺ Ni doped BiFeO ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2022, 33, 16856-16873.	2.2	2
36	Antibacterial activity and ferroelectric properties of Nd ³⁺ doped ZnO nanostructured materials. AIP Conference Proceedings, 2018, , .	0.4	1

#	ARTICLE	IF	CITATIONS
37	Phase formation and spectroscopy analysis of doped bismuth ferrite nanoparticles. Materials Today: Proceedings, 2022, 49, 3453-3456.	1.8	1
38	Room temperature multiferroic properties of rapid liquid phase sintered Pb+2 doped bismuth ferrite. AIP Conference Proceedings, 2018, , .	0.4	0
39	Effect of Ca and Ni co-substitution on structural and magnetic properties of BiFeO3 nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	0