

# 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	Structural, optical and photocatalytic properties of Ni doped BiFeO <sub>3</sub> nanoparticles. Materials Today: Proceedings, 2022, 49, 3015-3021.	1.8	11
2	Recent advances on magnetoelectric coupling in BiFeO <sub>3</sub> : Technological achievements and challenges. Materials Today: Proceedings, 2022, 49, 3046-3049.	1.8	4
3	Phase formation and spectroscopy analysis of doped bismuth ferrite nanoparticles. Materials Today: Proceedings, 2022, 49, 3453-3456.	1.8	1
4	Crystal structure refinement and magnetic properties of Sm <sup>3+</sup> doped BiFeO <sub>3</sub> nanoparticles. Physica B: Condensed Matter, 2022, 624, 413374.	2.7	6
5	Influence of novel Cd & Ni co-substitution on structural, magnetic, optical and photocatalytic properties of BiFeO <sub>3</sub> nanoparticles. Journal of Alloys and Compounds, 2022, 894, 162552.	5.5	10
6	Structural, magnetic, optical, and photocatalytic properties of Ca&Ni doped BiFeO <sub>3</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2022, 33, 16856-16873.	2.2	2
7	Effects of Sm and Cr co-doping on structural, magnetic, optical and photocatalytic properties of BiFeO <sub>3</sub> nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115859.	3.5	10
8	Synthesis and characterization of samarium substituted bismuth ferrites nanoparticles. Materials Today: Proceedings, 2021, 34, 813-816.	1.8	3
9	Effect of Na/Co co-substituted on structural, magnetic, optical and photocatalytic properties of BiFeO <sub>3</sub> nanoparticles. Materials Chemistry and Physics, 2021, 263, 124402.	4.0	10
10	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
11	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
12	Phase transition and optical properties of samarium-doped BiFeO <sub>3</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 19950-19960.	2.2	8
13	Structural, optical, magnetic, dielectric, and photocatalytic properties of Sm- and Ni-substituted BiFeO <sub>3</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 7798-7810.	2.2	6
14	Ca&Li substitution driven structural, dynamics of electron density, magnetic and optical properties of BiFeO <sub>3</sub> nanoparticles. Journal of Alloys and Compounds, 2019, 811, 151965.	5.5	15
15	Structural, magnetic, dielectric, vibrational and optical properties of Zr substituted Bi <sub>0.90</sub> Gd <sub>0.10</sub> FeO <sub>3</sub> multiferroics. Journal of Alloys and Compounds, 2018, 735, 684-691.	5.5	5
16	Antibacterial activity and ferroelectric properties of Nd <sup>3+</sup> doped ZnO nanostructured materials. AIP Conference Proceedings, 2018, , .	0.4	1
17	Room temperature multiferroic properties of rapid liquid phase sintered Pb <sup>+2</sup> doped bismuth ferrite. AIP Conference Proceedings, 2018, , .	0.4	0
18	Effect of Ca and Ni co-substitution on structural and magnetic properties of BiFeO <sub>3</sub> nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	0

#	ARTICLE	IF	CITATIONS
19	Raman spectroscopy probed spin-two phonon coupling and improved magnetic and optical properties in Dy and Zr substituted BiFeO <sub>3</sub> nanoparticles. Journal of Alloys and Compounds, 2017, 692, 236-242.	5.5	19
20	Substitution driven structural and magnetic properties and evidence of spin phonon coupling in Sr-doped BiFeO <sub>3</sub> nanoparticles. RSC Advances, 2016, 6, 68028-68040.	3.6	34
21	Band-gap tuning and magnetic properties of heterovalent ions (Ba, Sr and Ca) substituted BiFeO <sub>3</sub> nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	4
22	Substitution driven structural and magnetic transformation in Ca-doped BiFeO <sub>3</sub> nanoparticles. RSC Advances, 2016, 6, 43080-43090.	3.6	68
23	A comparative study on structural, vibrational, dielectric and magnetic properties of microcrystalline BiFeO <sub>3</sub> , nanocrystalline BiFeO <sub>3</sub> and core-shell structured BiFeO <sub>3</sub> @SiO <sub>2</sub> nanoparticles. Journal of Alloys and Compounds, 2016, 666, 454-467.	5.5	46
24	Structural modification and enhanced magnetic properties with two phonon modes in Ca-Co codoped BiFeO <sub>3</sub> nanoparticles. Ceramics International, 2015, 41, 14306-14314.	4.8	17
25	Spin-phonon coupling and improved multiferroic properties of Zr substituted BiFeO <sub>3</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2014, 25, 4286-4299.	2.2	16
26	Size dependent structural, vibrational and magnetic properties of BiFeO <sub>3</sub> and core-shell structured BiFeO <sub>3</sub> @SiO <sub>2</sub> nanoparticles. , 2014, , .		3
27	Effect of Non-magnetic Ions Substitution on Structural, Magnetic and Optical Properties of BiFeO <sub>3</sub> Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1867-1871.	1.8	24
28	Effect of Dy substitution on structural, magnetic and optical properties of BiFeO <sub>3</sub> ceramics. Journal of Physics and Chemistry of Solids, 2014, 75, 105-108.	4.0	79
29	Evidence of spin-two phonon coupling and improved multiferroic behavior of Bi <sub>1-x</sub> Dy <sub>x</sub> FeO <sub>3</sub> nanoparticles. Ceramics International, 2014, 40, 13347-13356.	4.8	21
30	Structural, magnetic and optical properties of Ho-Co codoped BiFeO <sub>3</sub> nanoparticles. Materials Letters, 2014, 132, 327-330.	2.6	12
31	Structural, magnetic, vibrational and impedance properties of Pr and Ti codoped BiFeO <sub>3</sub> multiferroic ceramics. Ceramics International, 2014, 40, 7805-7816.	4.8	65
32	Structural, magnetic and optical properties of Bi <sub>1-x</sub> Dy <sub>x</sub> FeO <sub>3</sub> nanoparticles synthesized by sol-gel method. Materials Letters, 2013, 96, 71-73.	2.6	30
33	Structural, raman, dielectric, magnetic and magnetoelectric properties of Ba and Mn doped BiFeO <sub>3</sub> nanoparticles. , 2013, , .		3
34	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
35	Rietveld analysis, magnetic, vibrational and impedance properties of (Bi <sub>1-x</sub> Pr <sub>x</sub> )(Fe <sub>1-x</sub> Zr <sub>x</sub> )O <sub>3</sub> ceramics. Journal of Materials Science: Materials in Electronics, 2013, 24, 5023-5034.	2.2	9
36	Structural, Optical and Multiferroic Properties of BiFeO <sub>3</sub> Nanoparticles Synthesized by Soft Chemical Route. Journal of Superconductivity and Novel Magnetism, 2013, 26, 443-448.	1.8	59

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37	Structural, vibrational, optical, magnetic and dielectric properties of Bi <sup>1-x</sup> Ba <sup>x</sup> FeO <sub>3</sub> nanoparticles. Ceramics International, 2013, 39, 6399-6405.	4.8	94
38	Structural, magnetic, and optical properties of Pr and Zr codoped BiFeO <sub>3</sub> multiferroic ceramics. Journal of Applied Physics, 2012, 112, .	2.5	97
39	Multiferroic, magnetoelectric and optical properties of Mn doped BiFeO <sub>3</sub> nanoparticles. Solid State Communications, 2012, 152, 525-529.	1.9	147