

Anju Ahlawat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Strain assisted magnetoelectric coupling in ordered nanomagnets of CoFe ₂ O ₄ /SrRuO ₃ /(Pb(Mg _{1/3} Nb _{2/3})O ₃ ∩PbTiO ₃) heterostructures. Journal of Physics Condensed Matter, 2022, , .	1.8	0
2	MgFe ₂ O ₄ /(Ba _{0.85} Ca _{0.15}) (Zr _{0.1} Ti _{0.9})O ₃ lead free ceramic composite: A study on multiferroic and magnetoelectric coupling properties at room temperature. Journal of Alloys and Compounds, 2021, 853, 156960.	5.5	17
3	Magnetic field induced ferroelectric polarization voltage in compositional dependent (0∩3) NFO/P(VDF-TrFE) nanocomposite film. Smart Materials and Structures, 2021, 30, 075034.	3.5	6
4	Effect of magnetic field on ferroelectric output voltage: a study on La _{0.7} Sr _{0.3} MnO ₃ (LSMO)/P(VDF-TrFE) flexible multiferroic nanocomposite films. Journal of Materials Science: Materials in Electronics, 2021, 32, 21780-21797.	2.2	5
5	Effect field controlled magnetization in NiFe ₂ O ₄ /SrRuO ₃ /PMN-PT heterostructures for nonvolatile memory applications: XMCD study. Applied Physics Letters, 2021, 119, .	3.3	7
6	Magneto-structural correlation across the spin reorientation transition temperature in pure and Sm substituted TmFeO ₃ : A temperature dependent Raman and synchrotron X-ray diffraction study. Journal of Alloys and Compounds, 2021, 885, 160985.	5.5	2
7	Magneto-electric coupled ordered PMN-PT/NiFe ₂ O ₄ composite nanostructures. Applied Physics Letters, 2021, 119, .	3.3	7
8	Multiferroic properties of La _{0.7} Ba _{0.3} MnO ₃ /P(VDF-TrFE) (0-3) nano-composite films. Materials Letters, 2020, 261, 127161.	2.6	10
9	Investigation of magneto-electric effects in (PMN-PT) @ NiFe ₂ O ₄ core shell nanostructures and nanocomposites for non volatile memory applications. Materials Letters, 2020, 261, 127082.	2.6	6
10	Direction dependent strong magnetoelectric coupling in La _{0.7} Ba _{0.3} MnO ₃ embedded poly(vinylidene fluoride-co-trifluoroethylene) flexible nano-composite films at room temperature. Scripta Materialia, 2020, 189, 30-35.	5.2	12
11	Spin reorientation transition and coupled spin-lattice dynamics of Sm _{0.6} Dy _{0.4} FeO ₃ . Journal of Physics Condensed Matter, 2020, 32, 405807.	1.8	1
12	Effect of AFM and FM exchange interaction on magnetic anisotropy properties of single domain SmFeO ₃ at nanoscale. Journal of Magnetism and Magnetic Materials, 2020, 502, 166505.	2.3	6
13	Effect of Sm doping on structure, dielectric and magnetic properties of GdFeO ₃ . Ceramics International, 2020, 46, 19682-19690.	4.8	11
14	Structural and magnetic studies of Er doped SmFeO ₃ . AIP Conference Proceedings, 2020, , .	0.4	0
15	Tuning of spin reorientation temperature of SmFeO ₃ by doping of Tm ³⁺ ion: Role of exchange interaction between 4f & 3d electrons. Journal of Alloys and Compounds, 2019, 808, 151603.	5.5	12
16	A detailed study of magnetization and magnetoelectric effect in P(VDF-TrFE) based SmFeO ₃ nanocomposites. Journal of Materials Science: Materials in Electronics, 2019, 30, 17765-17772.	2.2	7
17	Magneto-dielectric coupling in SmFeO ₃ : A study on anomalous dielectric, conductivity, impedance at spin reorientation temperature. Ceramics International, 2018, 44, 12401-12413.	4.8	29
18	Fabrication and characterization of Er, Nd codoped Y ₂ O ₃ transparent ceramic: A dual mode photoluminescence emitter. Journal of Alloys and Compounds, 2018, 754, 32-38.	5.5	13

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19	Influence of particle size on spin switching properties and magnetoelectric coupling in SmFeO ₃ . Journal of Materials Science: Materials in Electronics, 2018, 29, 927-934.	2.2	10
20	Tunable Magnetoelectric Nonvolatile Memory Devices Based on SmFeO ₃ /P(VDF-TrFE) Nanocomposite Films. ACS Applied Nano Materials, 2018, 1, 3196-3203.	5.0	32
21	Probing spin-phonon coupling in magnetoelectric CaCu ₃ Ti ₄ O ₁₂ -NiFe ₂ O ₄ composite nanostructures. Journal of Raman Spectroscopy, 2017, 48, 132-136.	2.5	3
22	Electric field poling induced self-biased converse magnetoelectric response in PMN-PT/NiFe ₂ O ₄ nanocomposites. Applied Physics Letters, 2017, 111, .	3.3	22
23	Tunable room temperature magnetoelectric response of SmFeO ₃ /poly(vinylidene fluoride) nanocomposite films. RSC Advances, 2016, 6, 44843-44850.	3.6	38
24	Observation of magnetoelectric coupling in BiFeO ₃ -(Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃) composites. Materials Letters, 2016, 181, 123-126.	2.6	11
25	Modification in structure of La and Nd doped epitaxial BiFeO ₃ thin films probed by micro Raman spectroscopy. Journal of Raman Spectroscopy, 2015, 46, 636-643.	2.5	13
26	BiFeO ₃ /poly(methyl methacrylate) nanocomposite films: A study on magnetic and dielectric properties. Applied Physics Letters, 2014, 104, 042902.	3.3	34
27	Effect of calcination temperature on nanoparticle morphology and its consequence on optical properties of Nd ₂ O ₃ transparent ceramics. CrystEngComm, 2014, 16, 2723-2731.	2.6	34
28	Correlation of structure and spin-phonon coupling in (La, Nd) doped BiFeO ₃ films. Journal of Raman Spectroscopy, 2014, 45, 958-962.	2.5	8
29	Raman tensor and domain structure study of single-crystal-like epitaxial films of CaCu ₃ Ti ₄ O ₁₂ grown by pulsed laser deposition. Journal of Physics Condensed Matter, 2013, 25, 025902.	1.8	6
30	Evidence of spin phonon coupling in magnetoelectric NiFe ₂ O ₄ /PMN-PT composite. Applied Physics Letters, 2013, 103, .	3.3	17
31	Synthesis and signature of M-E coupling in novel self-assembled CaCu ₃ Ti ₄ O ₁₂ -NiFe ₂ O ₄ nanocomposite structure. Journal of Applied Physics, 2012, 111, 074302.	2.5	13
32	Raman study of NiFe ₂ O ₄ nanoparticles, bulk and films: effect of laser power. Journal of Raman Spectroscopy, 2011, 42, 1087-1094.	2.5	236
33	Mossbauer, Raman and X-ray diffraction studies of superparamagnetic NiFe ₂ O ₄ nanoparticles prepared by sol-gel auto-combustion method. Journal of Magnetism and Magnetic Materials, 2011, 323, 2049-2054.	2.3	212
34	Effect of strain on the phase separation and devitrification of the magnetic glass state in thin films of La _{5/8} Pr _{3/8} Ca _{3/8} MnO ₃ ($x = 0.45$). Journal of Physics Condensed Matter, 2010, 22, 176002.	1.8	22