Srinath Sanyadanam

List of Publications by Year
in descending order

109	2,693	186265	197818
papers	citations	28 h-index	49 g-index

112	112	112	3475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superparamagnetic Polymer Nanocomposites with Uniform Fe3O4 Nanoparticle Dispersions. Advanced Functional Materials, 2006, 16, 71-75.	14.9	270
2	Spontaneous magnetic moment in BiFeO3â€“BaTiO3 solid solutions at low temperatures. Journal of Magnetism and Magnetic Materials, 1998, 188, 203-212.	2.3	217
3	Improved magnetic properties of Cr3+ doped SrFe12O19 synthesized via microwave hydrothermal route. Materials Research Bulletin, 2015, 63, 58-66.	5.2	150
4	Magnetocaloric effect in ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2006, 307, 227-231.	2.3	132
5	Effect of La substitution on structure and magnetic properties of sol-gel prepared BiFeO3. Journal of Applied Physics, 2013, 113, .	2.5	91
6	Hierarchical In(OH)₃ as a Precursor to Mesoporous In₂O₃ Nanocubes: A Facile Synthesis Route, Mechanism of Self-Assembly, and Enhanced Sensing Response toward Hydrogen. Journal of Physical Chemistry C, 2014, 118, 6909-6921.	3.1	89
7	A new single/few-layered graphene oxide with a high dielectric constant of 10⁶: contribution of defects and functional groups. RSC Advances, 2015, 5, 14768-14779.	3.6	72
8	Effect of Gd3+ on dielectric and magnetic properties of Y3Fe5O12. Journal of Magnetism and Magnetic Materials, 2014, 349, 45-50.	2.3	68
9	Observation of high coercivity in multiferroic lanthanum doped BiFeO3. Journal of Alloys and Compounds, 2013, 554, 271-276.	5.5	66
10	A comparative study on structural, dielectric and multiferroic properties of CaFe2O4/BaTiO3 core-shell and mixed composites. Journal of Alloys and Compounds, 2017, 691, 644-652.	5.5	66
11	Effect of synthesis route on the multiferroic properties of BiFeO3: AÂcomparative study between solid state and solâ€“gel methods. Journal of Alloys and Compounds, 2015, 649, 843-850.	5.5	64
12	Field dependence of the magnetocaloric effect in core-shell nanoparticles. Journal of Applied Physics, 2010, 107, .	2.5	58
13	Role of (La, Gd) co-doping on the enhanced dielectric and magnetic properties of BiFeO3 ceramics. Ceramics International, 2016, 42, 4176-4184.	4.8	57
14	Preparation of Nearly Monodisperse Nickel Nanoparticles by a Facile Solution Based Methodology and Their Ordered Assemblies. Journal of Physical Chemistry C, 2009, 113, 3426-3429.	3.1	54
15	Magnetic Transition and Large Magnetocaloric Effect Associated with Surface Spin Disorder in Co and Co_{core}Ag_{shell} Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 14060-14066.	3.1	52
16	Effect of Ho substitution on structure and magnetic properties of BiFeO3. Journal of Applied Physics, 2014, 115, .	2.5	48
17	Magnetization and magnetoresistance in insulating phases ofSrFeO3â^'Î´. Physical Review B, 2005, 72, .	3.2	45
18	Effect of thickness on structure, microstructure, residual stress and soft magnetic properties of DC sputtered Fe65Co35 soft magnetic thin films. Journal of Magnetism and Magnetic Materials, 2014, 365, 93-99.	2.3	44

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19	Gadolinium: A helical antiferromagnet or a collinear ferromagnet. Physical Review B, 2000, 62, 1114-1117.	3.2	43
20	Exchange bias effect in Au-Fe₃O₄nanocomposites. Nanotechnology, 2014, 25, 055702.	2.6	43
21	Hierarchical Mesoporous In₂O₃ with Enhanced CO Sensing and Photocatalytic Performance: Distinct Morphologies of In(OH)₃ via Self Assembly Coupled in Situ Solidâ€“Solid Transformation. ACS Applied Materials & Interfaces, 2015, 7, 7679-7689.	8.0	43
22	Interparticle interactions in coupled Auâ€“Fe3O4 nanoparticles. Journal of Applied Physics, 2009, 105, 07B502.	2.5	41
23	Magnetic anisotropy in epitaxialCrO2andCrO2âˆ•Cr2O3bilayer thin films. Physical Review B, 2006, 74, .	3.2	40
24	Observation of isotropic dipolar to uniaxial dipolar crossover in gadolinium. Physical Review B, 1999, 59, 1145-1151.	3.2	37
25	Strong interfacial polarization in ZnO decorated reduced-graphene oxide synthesized by molecular level mixing. Physical Chemistry Chemical Physics, 2015, 17, 17237-17245.	2.8	37
26	Isotropic-Heisenberg to isotropic-dipolar crossover in amorphous ferromagnets with composition near the percolation threshold. Physical Review B, 2000, 62, 11649-11660.	3.2	35
27	Static universality class for gadolinium. Physical Review B, 1999, 60, 12166-12176.	3.2	33
28	Multiferroic properties of microwave sintered BaTiO3â€“SrFe12O19 composites. Physica B: Condensed Matter, 2014, 448, 323-326.	2.7	33
29	Synthesis and Characterization of CoFe₂O₄/Polyaniline Nanocomposites for Electromagnetic Interference Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 4371-4376.	0.9	29
30	Effect of pH on structural and magnetic properties of nanocrystalline Y₃Fe₅O₁₂ by aqueous co-precipitation method. Materials Research Innovations, 2014, 18, 69-75.	2.3	29
31	Terahertz radiation and second-harmonic generation from a single-component polar organic ferroelectric crystal. Journal of Materials Chemistry C, 2018, 6, 9330-9335.	5.5	28
32	Structural, Magnetic, and Electrical Properties of Microwave-Sintered Cr3+-Doped Sr Hexaferrites. Journal of Electronic Materials, 2015, 44, 524-531.	2.2	27
33	Irreversibility lines in theH-Tphase diagram of re-entrant amorphous ferromagnets. Journal of Physics Condensed Matter, 1998, 10, 11067-11080.	1.8	24
34	Study of structure and magnetic properties of rare earth doped BiFeO3. Physica B: Condensed Matter, 2014, 448, 281-284.	2.7	24
35	Uniaxial anisotropy, intrinsic and extrinsic damping in Co₂FeSi Heusler alloy thin films. Journal Physics D: Applied Physics, 2019, 52, 325002.	2.8	24
36	Evidence for the absence of electron-electron Coulomb interaction quantum correction to the anomalous Hall effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml: Heusler-alloy thin films. Physical Review B, 2017, 96, .	3.2	22

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37	Effect of TiO2 on electrical and magnetic properties of Ni0.35Cu0.12Zn0.35Fe2O4 synthesized by the microwaveâ€“hydrothermal method. Journal of Physics and Chemistry of Solids, 2013, 74, 1329-1335.	4.0	21
38	Magnetization in insulating phases of Ti4+-doped SrFeO3â^'Î´. Journal of Applied Physics, 2006, 99, 08S904.	2.5	20
39	Giant magnetocaloric effect in clathrates. Journal of Applied Physics, 2006, 99, 08K902.	2.5	19
40	Static and Dynamic Magnetic Properties of Composite Au-Fe$_{3}$O$_4$Nanoparticles. IEEE Transactions on Magnetics, 2007, 43, 3094-3096.	2.1	19
41	The effect of Sb on the electrical and magnetic properties of Ni-Zn ferrites prepared by solâ€“gel autocombustion method. Journal of Electroceramics, 2013, 31, 168-175.	2.0	17
42	Size Control and Magnetic Property Trends in Cobalt Ferrite Nanoparticles Synthesized Using an Aqueous Chemical Route. IEEE Transactions on Magnetics, 2014, 50, 1-8.	2.1	16
43	Graphene-Wrapped MgO/Poly(vinyl alcohol) Composite Sheets: Dielectric and Electromagnetic Interference Shielding Properties at Elevated Temperatures. ACS Applied Materials & Interfaces, 2019, 11, 23714-23730.	8.0	16
44	Growth and characterization of sputtered BSTOâ•BaM multilayers. Journal of Applied Physics, 2005, 97, 10J115.	2.5	15
45	Effect of microwave sintering on grain size and dielectric properties of barium titanate. Turkish Journal of Physics, 2013, 37, 312-321.	1.1	15
46	Magnetic and ferroelectric properties of Fe doped SrTiO_{3-Î´}films. Journal of Physics: Conference Series, 2010, 200, 092010.	0.4	14
47	ZnO nanoparticles' decorated reduced-graphene oxide: Easy synthesis, unique polarization behavior, and ionic conductivity. Materials and Design, 2016, 110, 311-316.	7.0	14
48	Investigation of Structural, Ferroelectric, and Magnetic Properties of La-Doped LuFeO3 Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1587-1591.	1.8	14
49	Microstructure and magnetism in barium strontium titanate (BSTO)â€“barium hexaferrite (BaM) multilayers. Materials Research Bulletin, 2005, 40, 1286-1293.	5.2	13
50	Structural and MÃ¶ssbauer Investigation of Nanocrystalline <scp><scp>SrFe</scp></scp>_{1â^'x}<scp><scp>Ti</scp></scp>_x<scp><scp>O</scp></scp>₃ Journal of the American Ceramic Society, 2013, 96, 2973-2978.	3.6	13
51	A Comprative Study Of Sol-gel And Solid-state Prepared La3+ Doped Multiferroic BiFeO3. Advanced Materials Letters, 2014, 5, 127-130.	0.6	13
52	Magnetization processes in exchange-biased MnPdâ•Fe bilayers studied by polarized neutron reflectivity. Journal of Applied Physics, 2004, 96, 6523-6526.	2.5	11
53	Positive temperature coefficient of resistance of tetragonal Ti4+ doped nano SrFeO3â^'Î´. Journal of Alloys and Compounds, 2013, 561, 174-179.	5.5	11
54	Correlation between structural, magnetic and transport properties of Co2FeSi thin films. Journal Physics D: Applied Physics, 2016, 49, 065007.	2.8	11

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55	Effect of disorder on the anomalous Hall conductivity of Co2FeSi thin films. Journal of Magnetism and Magnetic Materials, 2018, 448, 371-377.	2.3	11
56	Lattice effects on the multiferroic characteristics of (La, Ho) co-substituted BiFeO3. Journal of Alloys and Compounds, 2021, 863, 158719.	5.5	11
57	Exchange bias effect in Ti doped nanocrystalline SrFeO3-Î´. AIP Advances, 2014, 4, .	1.3	10
58	Effect of progressive substitution of Lu by Ho on the structural and dielectric properties of nanocrystalline LuFeO3 orthoferrite. Materials Research Bulletin, 2022, 145, 111570.	5.2	10
59	Large spontaneous exchange bias in a weak ferromagnet Pb6Ni9(TeO6)5. Scientific Reports, 2017, 7, 8300.	3.3	9
60	Diffuson contribution to anomalous Hall effect in disordered Co2FeSi thin films. Journal of Magnetism and Magnetic Materials, 2019, 481, 194-202.	2.3	9
61	Dielectric and Magnetic Properties of NiFe2-xBixO4 Nanoparticles at Microwave Frequencies Prepared via co-precipitation Method. Procedia Engineering, 2014, 76, 1-7.	1.2	8
62	Dangling ultrafine nano silica on graphene oxide to form hybrid nanocomposite: enhancement of dielectric properties. Materials Research Express, 2016, 3, 055019.	1.6	8
63	Evidence for dipolar effects in re-entrant amorphous ferromagnets. Europhysics Letters, 2000, 51, 441-446.	2.0	7
64	Probing Magnetic Anisotropy and Spin Polarization in Spintronic Materials. IEEE Nanotechnology Magazine, 2005, 4, 59-64.	2.0	7
65	Crystal Structure and Enhanced Dielectric, Magnetic Properties of Gd Doped BiFeO₃ Ceramics. Materials Focus, 2013, 2, 201-208.	0.4	7
66	Magnon-fracton crossover in quenched random site-diluted ferromagnets. Physical Review B, 2001, 63, .	3.2	6
67	Observation of a New Magnetic Anomaly below the Ferromagnetic Curie Temperature inYb14MnSb11. Physical Review Letters, 2005, 95, 227205.	7.8	6
68	Influence of Nd Substitution by La in on Structural and Transport Properties for Sensing Applications. ISRN Materials Science, 2013, 2013, 1-10.	1.0	6
69	SrFe0.9Ti0.1O3â^'Î´: A cluster spin glass. Materials Research Bulletin, 2014, 51, 332-335.	5.2	6
70	Large Magnetocaloric Effect, Moment, and Coercivity Enhancement after Coating Ni Nanoparticles with Ag. ChemPhysChem, 2014, 15, 1619-1623.	2.1	6
71	Effect of Gd substitution on structure and magnetic properties of BiFeO₃. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012082.	0.6	6
72	Effect of site disorder on the resonant microwave absorption in Co2Fe0.5Ti0.5Si Heusler alloy thin films. Journal of Magnetism and Magnetic Materials, 2022, 559, 169519.	2.3	6

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73	Structural and magnetic properties of nanocrystalline Y3Fe5O12 using co-precipitation method. AIP Conference Proceedings, 2012, , .	0.4	5
74	Neutron diffraction studies and magnetism in Ti doped SrFeO3â¯Î´systems. Journal of Applied Physics, 2014, 115, 103904.	2.5	4
75	Synthesis and magnetic properties of GdCrO3 nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	4
76	Magneto-optical Kerr microscopy investigation of magnetization reversal in Co2FeSi Heusler alloy thin films. AIP Advances, 2020, 10, 065017.	1.3	4
77	Effect of A-site ionic size variation on TCR and electrical transport properties of (Nd_{0.7-x}La_x)_{0.7}Sr_{0.3}MnO₃with0.1and0.2. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012047.	0.3	3
78	Study of gadolinium (gd) doped epitaxial yttrium iron garnet (YIG) thin films. AIP Conference Proceedings, 2020, , .	0.4	3
79	Robust perpendicular magnetic anisotropy in Ce substituted yttrium iron garnet epitaxial thin films. Journal of Applied Physics, 2022, 131, 203901.	2.5	3
80	Investigation of magnetic anisotropy in Co nanoparticles using ferromagnetic resonance technique. Journal of Physics: Conference Series, 2010, 200, 072088.	0.4	2
81	Size dependence of magnetorheological properties of cobalt ferrite ferrofluid. AIP Conference Proceedings, 2015, , .	0.4	2
82	Magnetization and Neutron Diffraction Studies on Nanocrystalline Tetragonal SrFeO3â¯Î´. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3155-3159.	1.8	2
83	Effect of La doping on dielectric and magnetic properties of room temperature multiferroic LuFeO3. AIP Conference Proceedings, 2018, , .	0.4	2
84	Magnetization reversal in an obliquely oriented metal evaporated tape. Journal of Magnetism and Magnetic Materials, 2004, 279, 440-447.	2.3	1
85	Growth and magnetic properties of epitaxial Au/Fe/Au and Ag/Fe/Au films on Î±-Al2O3. Journal of Magnetism and Magnetic Materials, 2005, 286, 432-436.	2.3	1
86	Exchange Bias in CrO₂/Cr₂O₃ Bilayer Thin Films. Advances in Science and Technology, 2006, 45, 2528-2533.	0.2	1
87	Magnetic Anisotropy and Magnetocaloric Effect (MCE) in NiFe2O4 Nanoparticles. Materials Research Society Symposia Proceedings, 2006, 962, 1.	0.1	1
88	Static and Dynamic Magnetic Properties of Co Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4086-4091.	0.9	1
89	Observation of high magnetic moment in the Ho doped BiFeO[sub 3] ceramics. , 2013, , .		1
90	Effect of synthesis route on the multiferroic properties of single phase BiFeO3. , 2014, , .		1

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91	Observation of negative magneto-resistance in SrFe1â^'xTixO3â^'Î´ (xâ€‰=â€‰0 to 0.3) systems. Journal of Applied Physics, 2014, 116, 093711.	2.5	1
92	The effect of (La, Ho) co-doping on the structure and magnetic properties BiFeO3. AIP Conference Proceedings, 2015, , .	0.4	1
93	Effect of substrate temperature on structure and magnetic properties of Co2FeSi/Si(001) thin films. AIP Conference Proceedings, 2015, , .	0.4	1
94	Ferromagnetic resonance study of Co2FeSi thin films. AIP Conference Proceedings, 2016, , .	0.4	1
95	Geometrical frustration in a new S = Â½ distorted check-board lattice PbCuTeO5. AIP Conference Proceedings, 2017, , .	0.4	1
96	Synthesis, magnetic properties and electronic structure of theSâ€‰â€‰=â€‰â€‰Â½ uniform spin chain system InCuPO5. Materials Research Express, 2017, 4, 076103.	1.6	1
97	Magnetization And ESR Study Of SrFeO[sub 3-Î´] Systems. , 2010, , .		0
98	Investigation Of Multiferroic Properties Of Pure And La Doped Bismuth Ferrite. , 2011, , .		0
99	Moˆssbauer effect in tetragonal SrFeO3-Î´. , 2012, , .		0
100	Structural refinement and observation of enhanced magnetic properties of La doped BiFeO[sub 3]. , 2013, , .		0
101	Hydrothermal synthesis and magnetic properties of ErCrO4 nanoparticles. , 2014, , .		0
102	Non-Fermi liquid behavior of magnetization in Ni3Al nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	0
103	Magnetic irreversibility and magnetocrystalline anisotropy in nanocrystalline nickel. AIP Conference Proceedings, 2015, , .	0.4	0
104	Thickness induced crossover from the ferromagnetic to cluster spin glass state in Cr70Fe30 thin films. AIP Conference Proceedings, 2015, , .	0.4	0
105	Synthesis and characterization of o-LuFeO3 magnetic nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	0
106	Large anomalous Hall conductivity and Hall coefficient of Co2FeSi thin films. AIP Conference Proceedings, 2017, , .	0.4	0
107	Magnetism and Charge Order in Nanocrystalline Orthorhombic SrFeO3-Î´. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1839-1844.	1.8	0
108	Structural and Magnetic properties of Room Temperature Multiferroic Lu0.9Ho0.1FeO3. International Journal of Innovative Research in Physics, 2020, 1, 37-41.	0.2	0

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109	Magnetic, dielectric and structural properties of nanocrystalline Lu1-xHoxFeO3 orthoferrite solid solutions. Journal of Alloys and Compounds, 2022, , 164145.	5.5	0