

Suryanarayana Jammalamadaka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Analog Resistive Switching in Reduced Graphene Oxide and Chitosan-Based Bio-Resistive Random Access Memory Device for Neuromorphic Computing Applications. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100465.	2.4	9
2	Thickness-Dependent Magnetostatic Interactions and Domain State Configuration in Fe ₂ CoSi Thin Films—FORC Analysis. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-6.	2.1	3
3	Metamagnetic Transitions and Magnetocaloric Properties of HoCr _{1-x} FexO ₃ ($x=0.25$ and 0.75) Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 2057-2067.	1.8	1
4	Ferromagnetic Thickness Variation Exchange Bias in IrMn (111)/Fe ₂ CoSi Hybrid Structure. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 1313-1319.	1.8	3
5	Pseudo magnetic properties and evidence for vortex state in Fe ₂ NiGe Heusler alloy thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 556, 169401.	2.3	1
6	Anomalous domain wall dynamics in Ir ₅₀ Mn ₅₀ /Fe ₂ CoSi bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169656.	2.3	0
7	Thickness dependent domain wall dynamics in Fe ₂ CoSi thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 521, 167528.	2.3	5
8	Graphene oxide based synaptic memristor device for neuromorphic computing. <i>Nanotechnology</i> , 2021, 32, 155701.	2.6	42
9	Spin transfer torque Bias (STTB) due to domain wall resistance in an infinitely long ferromagnetic nanowire. <i>Nanotechnology</i> , 2021, . .	2.6	1
10	Effect of sputtering power on the first order magnetization reversal, reversible and irreversible process in Fe ₇₁ Ga ₂₉ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 536, 168107.	2.3	5
11	Effect of Low Substrate Temperature on the Magnetic Properties and Domain Structure of Fe _x Ga _{1-x} Thin Films. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-9.	2.1	4
12	Bipolar resistive switching in HoCrO ₃ thin films. <i>Nanotechnology</i> , 2020, 31, 355202.	2.6	9
13	Magnetic properties and domain imaging of Fe ₇₀ Ga ₃₀ films. <i>AIP Conference Proceedings</i> , 2020, . .	0.4	0
14	Detection of bovine serum albumin using hybrid TiO ₂ + graphene oxide based Bio-resistive random access memory device. <i>Scientific Reports</i> , 2019, 9, 16141.	3.3	29
15	Demagnetization field driven charge transport in a TiO ₂ based dye sensitized solar cell. <i>Solar Energy</i> , 2019, 187, 281-289.	6.1	18
16	Preparation of folic acid conjugated hematite nanoparticles using high energy ball milling for biomedical applications. <i>AIP Conference Proceedings</i> , 2018, . .	0.4	1
17	Structural and spectroscopic studies on HoCr _{1-x} FexO ₃ ($x = 0$ and 0.5) compounds. <i>AIP Conference Proceedings</i> , 2018, . .	0.4	2
18	Magnetic and optical effects in TiO ₂ based dye sensitized solar cells. <i>AIP Conference Proceedings</i> , 2018, . .	0.4	0

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19	Spin-phonon coupling in HoCr _{1-x} Fe _x O ₃ ($x=0.25$). <i>JETQ</i> 14 , 0.7843.	2.5	43
20	Magnetic and magnetocaloric properties of HoCr _{0.75} Fe _{0.25} O ₃ compound. <i>AIP Advances</i> , 2018, 8 , 056407.	1.3	3
21	Magnetic and exchange bias properties of YCo thin films and IrMn/YCo bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 448 , 172-179.	2.3	1
22	Magnetic and hyperfine interactions in HoFe _{1-x} Cr _x O ₃ ($0\% x \leq 1$) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 429 , 353-358.	2.3	14
23	Spin-orbit coupling and Lorentz force enhanced efficiency of TiO ₂ -based dye sensitized solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214 , 1600691.	1.8	6
24	Inverse and enhanced magnetocaloric properties of HoCrO ₃ . <i>Journal of Alloys and Compounds</i> , 2017, 709 , 410-414.	5.5	11
25	Magnetocaloric properties of HoFe _{0.5} Cr _{0.5} O ₃ compound. <i>AIP Conference Proceedings</i> , 2017, ., .	0.4	0
26	Remote control of resistive switching in TiO ₂ based resistive random access memory device. <i>Scientific Reports</i> , 2017, 7 , 17224.	3.3	60
27	Positive Exchange Bias in Potassium Split Graphene Nanoribbons. , 2016, ., .		0
28	Magnetostrictive Fe ₇₃ Ga ₂₇ nanocontacts for low-field conductance switching. <i>Applied Physics Letters</i> , 2016, 108 , 242408.	3.3	1
29	Magnetocaloric effect and nature of magnetic transition in low dimensional DyCu ₂ . <i>Journal of Alloys and Compounds</i> , 2016, 683 , 56-61.	5.5	8
30	Enhanced spin Reorientation temperature and origin of magnetocapacitance in HoFeO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 418 , 81-85.	2.3	24
31	Band gap tuning and orbital mediated electron-phonon coupling in HoFe _{1-x} Cr _x O ₃ ($0\% x \leq 0.25$). <i>Journal of Applied Physics</i> , 2015, 118 , .	2.5	60
32	Remote control of magnetostriction-based nanocontacts at room temperature. <i>Scientific Reports</i> , 2015, 5 , 13621.	3.3	12
33	Structural magnetic and magnetostrictive properties of Tb _{0.3} Dy _{0.7} _x NdxFe _{1.93} [$x=0, 0.05, 0.1, 0.15$ and 0.2] compounds. <i>Journal of Alloys and Compounds</i> , 2015, 624 , 40-43.	5.5	9
34	Spin reversal in Fe ₈ under fast pulsed magnetic fields. <i>New Journal of Physics</i> , 2015, 17 , 073006.	2.9	3
35	Resistive switching in ultra-thin La _{0.7} Sr _{0.3} MnO ₃ /SrRuO ₃ superlattices. <i>Applied Physics Letters</i> , 2014, 105 , .	3.3	12
36	Exchange bias and training effects in antiferromagnetically coupled La _{0.7} Sr _{0.3} MnO ₃ /SrRuO ₃ superlattices. <i>Europhysics Letters</i> , 2012, 98 , 17002.	2.0	15

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37	Dynamic response of exchange bias in graphene nanoribbons. <i>Applied Physics Letters</i> , 2012, 101, 142402.	3.3	4
38	Magnetocaloric effect and nature of magnetic transition in nanoscale Pr _{0.5} Ca _{0.5} MnO ₃ . <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	10
39	Oscillatory exchange bias and training effects in nanocrystalline Pr _{0.5} Ca _{0.5} MnO ₃ . <i>AIP Advances</i> , 2012, 2, .	1.3	12
40	Ferromagnetism in Graphene Nanoribbons: Split versus Oxidative Unzipped Ribbons. <i>Nano Letters</i> , 2012, 12, 1210-1217.	9.1	92
41	Magnetic field control of hysteretic switching in Co/Al ₂ O ₃ multilayers by carrier injection. <i>AIP Advances</i> , 2011, 1, .	1.3	4
42	Martensite-like transition and spin-glass behavior in nanocrystalline Pr _{0.5} Ca _{0.5} MnO ₃ . <i>AIP Advances</i> , 2011, 1, .	1.3	16
43	Magnetostriction and anisotropy compensation in Tb _x Dy _{0.9} ^x Nd _{0.1} Fe _{1.93} [0.2 ^x 0.4]. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	39
44	Magnetic ordering in the fine particles of some bulk Pauli paramagnets. <i>Physical Review B</i> , 2009, 80, .	3.2	6
45	Insensitivity of magnetic anomalies in Sr ₃ NiPtO ₆ to positive and negative pressures. <i>Journal of Alloys and Compounds</i> , 2009, 484, 50-53.	5.5	4
46	Enhancement of positive magnetoresistance following a magnetic-field-induced ferromagnetic transition in the intermetallic compound $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} <\text{mml:mrow}> <\text{mml:msub}> <\text{mml:mrow}> <\text{mml:mtext}> \text{Tb} </\text{mml:mtext}> </\text{mml:mrow}> <\text{mml:mn}> 5 </\text{mml:mn}> </\text{mml:msub}> </\text{mml:mrow}>$ Physical Review B, 2009, 79, .	3.2	28
47	Magnetic behavior of nanocrystalline LaMn ₂ Ge ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, L129-L131.	2.3	5
48	Magnetic anomalies in a new manganocuprate Gd ₃ Ba ₂ Mn ₂ Cu ₂ O ₁₂ . <i>Solid State Communications</i> , 2008, 147, 353-356.	1.9	2
49	Room temperature soft ferromagnetism in the nanocrystalline form of YCo ₂ , A well-known bulk Pauli paramagnet. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	13
50	Magnetic anomalies in Gd ₆ Co _{1.67} Si ₃ and Tb ₆ Co _{1.67} Si ₃ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 425204.	1.8	19
51	Stability of the geometrically frustrated magnetic state of Ca ₃ CoRhO ₆ to applications of positive and negative pressure. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 255247.	1.8	4
52	Development of a magetnetostrictive transducer for nondestructive testing of concrete structures. <i>Applied Physics Letters</i> , 2008, 92, 044102.	3.3	16
53	Magnetic anomalies in $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} <\text{mml:mrow}> <\text{mml:msub}> <\text{mml:mrow}> <\text{mml:mtext}> \text{Nd} </\text{mml:mtext}> </\text{mml:mrow}> <\text{mml:mn}> 6 </\text{mml:mn}> </\text{mml:msub}> </\text{mml:mrow}>$ A first-order transition in the low-temperature isothermal magnetization behavior. <i>Physical Review B</i> , 2008, 78, .	3.2	12
54	Magnetic properties of Tb _{0.28} Dy _{0.57} Ho _{0.15} Fe ₂ ^x Mnx(x=0,0.05,0.1,0.15,0.2). <i>Journal of Applied Physics</i> , 2007, 101, 09C504.	2.5	11

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55	Enhanced magnetocaloric effect in single crystalline Nd _{0.5} Sr _{0.5} MnO ₃ . Journal of Applied Physics, 2007, 101, 09C506.	2.5	18
56	Effect of B on the microstructure and magnetostriction of zoned Dy _{0.7} Tb _{0.3} Fe _{1.95} . Journal of Applied Physics, 2007, 101, 09C512.	2.5	3
57	Magnetotransport properties of Ba ₂ MnRuO ₆ and LaBaMnRuO ₆ . IEEE Transactions on Magnetics, 2007, 43, 3076-3078.	2.1	9
58	Formation of Metastable TbFe ₅ Phase by Mechanical Alloying. IEEE Transactions on Magnetics, 2006, 42, 2793-2795.	2.1	1