

# Suryanarayana Jammalamadaka

## List of Publications by Year in descending order

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58  
times ranked

929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetism in Graphene Nanoribbons: Split versus Oxidative Unzipped Ribbons. Nano Letters, 2012, 12, 1210-1217.	9.1	92
2	Band gap tuning and orbital mediated electron-phonon coupling in $\text{HoFe}_{1-x}\text{Cr}_x\text{O}_3$ ( $0 \leq x \leq 1$ ). Journal of Applied Physics, 2015, 118, .	2.5	60
3	Remote control of resistive switching in $\text{TiO}_2$ based resistive random access memory device. Scientific Reports, 2017, 7, 17224.	3.3	60
4	Graphene oxide based synaptic memristor device for neuromorphic computing. Nanotechnology, 2021, 32, 155701.	2.6	42
5	Magnetostriction and anisotropy compensation in $\text{Tb}_x\text{Dy}_{0.9-x}\text{Nd}_{0.1}\text{Fe}_{1.93}$ [ $0.2 \leq x \leq 0.4$ ]. Applied Physics Letters, 2010, 97, .	3.3	39
6	Detection of bovine serum albumin using hybrid $\text{TiO}_2$ + graphene oxide based Bio-resistive random access memory device. Scientific Reports, 2019, 9, 16141.	3.3	29
7	Enhancement of positive magnetoresistance following a magnetic-field-induced ferromagnetic transition in the intermetallic compound $\text{Tb}_5\text{CoSi}$ . Physical Review B, 2009, 79, .	3.2	28
8	Enhanced spin Reorientation temperature and origin of magnetocapacitance in $\text{HoFeO}_3$ . Journal of Magnetism and Magnetic Materials, 2016, 418, 81-85.	2.3	24
9	Magnetic anomalies in $\text{Gd}_6\text{Co}_{1.67}\text{Si}_3$ and $\text{Tb}_6\text{Co}_{1.67}\text{Si}_3$ . Journal of Physics Condensed Matter, 2008, 20, 425204.	1.8	19
10	Enhanced magnetocaloric effect in single crystalline $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ . Journal of Applied Physics, 2007, 101, 09C506.	2.5	18
11	Demagnetization field driven charge transport in a $\text{TiO}_2$ based dye sensitized solar cell. Solar Energy, 2019, 187, 281-289.	6.1	18
12	Development of a magnetostrictive transducer for nondestructive testing of concrete structures. Applied Physics Letters, 2008, 92, 044102.	3.3	16
13	Martensite-like transition and spin-glass behavior in nanocrystalline $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ . AIP Advances, 2011, 1, .	1.3	16
14	Exchange bias and training effects in antiferromagnetically coupled $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3$ superlattices. Europhysics Letters, 2012, 98, 17002.	2.0	15
15	Magnetic and hyperfine interactions in $\text{HoFe}_{1-x}\text{Cr}_x\text{O}_3$ ( $0 \leq x \leq 1$ ) compounds. Journal of Magnetism and Magnetic Materials, 2017, 429, 353-358.	2.3	14
16	Spin-phonon coupling in $\text{HoCr}_{1-x}\text{Fe}_x\text{O}_3$ ( $0 \leq x \leq 1$ ). J. Appl. Phys. 114, 024301 (2013).	2.5	14
17	Room temperature soft ferromagnetism in the nanocrystalline form of $\text{YCo}_2$ , A well-known bulk Pauli paramagnet. Applied Physics Letters, 2008, 92, .	3.3	13
18	Magnetic anomalies in $\text{Nd}_6\text{CoSi}$ . A first-order transition in the low-temperature isothermal magnetization behavior. Physical Review B, 2008, 78, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Oscillatory exchange bias and training effects in nanocrystalline Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . AIP Advances, 2012, 2, .	1.3	12
20	Resistive switching in ultra-thin La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrRuO <sub>3</sub> superlattices. Applied Physics Letters, 2014, 105, .	3.3	12
21	Remote control of magnetostriction-based nanocontacts at room temperature. Scientific Reports, 2015, 5, 13621.	3.3	12
22	Magnetic properties of Tb <sub>0.28</sub> Dy <sub>0.57</sub> Ho <sub>0.15</sub> Fe <sub>2</sub> <sup>x</sup> Mnx (x=0,0.05,0.1,0.15,0.2). Journal of Applied Physics, 2007, 101, 09C504.	2.5	11
23	Inverse and enhanced magnetocaloric properties of HoCrO <sub>3</sub> . Journal of Alloys and Compounds, 2017, 709, 410-414.	5.5	11
24	Magnetocaloric effect and nature of magnetic transition in nanoscale Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . Journal of Applied Physics, 2012, 112, .	2.5	10
25	Magnetotransport properties of Ba <sub>2</sub> MnRuO <sub>6</sub> and LaBaMnRuO <sub>6</sub> . IEEE Transactions on Magnetics, 2007, 43, 3076-3078.	2.1	9
26	Structural magnetic and magnetostrictive properties of Tb <sub>0.3</sub> Dy <sub>0.7</sub> <sup>x</sup> NdxFe <sub>1.93</sub> [x=0, 0.05, 0.1, 0.15 and 0.2] compounds. Journal of Alloys and Compounds, 2015, 624, 40-43.	5.5	9
27	Bipolar resistive switching in HoCrO <sub>3</sub> thin films. Nanotechnology, 2020, 31, 355202.	2.6	9
28	Analog Resistive Switching in Reduced Graphene Oxide and Chitosan-Based Bio-Resistive Random Access Memory Device for Neuromorphic Computing Applications. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100465.	2.4	9
29	Magnetocaloric effect and nature of magnetic transition in low dimensional DyCu <sub>2</sub> . Journal of Alloys and Compounds, 2016, 683, 56-61.	5.5	8
30	Magnetic ordering in the fine particles of some bulk Pauli paramagnets. Physical Review B, 2009, 80, .	3.2	6
31	Spin-orbit coupling and Lorentz force enhanced efficiency of TiO <sub>2</sub> -based dye sensitized solar cells. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600691.	1.8	6
32	Magnetic behavior of nanocrystalline LaMn <sub>2</sub> Ge <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 2008, 320, L129-L131.	2.3	5
33	Thickness dependent domain wall dynamics in Fe <sub>2</sub> CoSi thin films. Journal of Magnetism and Magnetic Materials, 2021, 521, 167528.	2.3	5
34	Effect of sputtering power on the first order magnetization reversal, reversible and irreversible process in Fe <sub>71</sub> Ga <sub>29</sub> thin films. Journal of Magnetism and Magnetic Materials, 2021, 536, 168107.	2.3	5
35	Stability of the geometrically frustrated magnetic state of Ca <sub>3</sub> CoRhO <sub>6</sub> to applications of positive and negative pressure. Journal of Physics Condensed Matter, 2008, 20, 255247.	1.8	4
36	Insensitivity of magnetic anomalies in Sr <sub>3</sub> NiPtO <sub>6</sub> to positive and negative pressures. Journal of Alloys and Compounds, 2009, 484, 50-53.	5.5	4

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37	Magnetic field control of hysteretic switching in Co/Al <sub>2</sub> O <sub>3</sub> multilayers by carrier injection. AIP Advances, 2011, 1, .	1.3	4
38	Dynamic response of exchange bias in graphene nanoribbons. Applied Physics Letters, 2012, 101, 142402.	3.3	4
39	Effect of Low Substrate Temperature on the Magnetic Properties and Domain Structure of Fe <sub>1-x</sub> Ga <sub>x</sub> Thin Films. IEEE Transactions on Magnetics, 2020, 56, 1-9.	2.1	4
40	Effect of B on the microstructure and magnetostriction of zoned Dy <sub>0.7</sub> Tb <sub>0.3</sub> Fe <sub>1.95</sub> . Journal of Applied Physics, 2007, 101, 09C512.	2.5	3
41	Spin reversal in Fe <sub>8</sub> under fast pulsed magnetic fields. New Journal of Physics, 2015, 17, 073006.	2.9	3
42	Magnetic and magnetocaloric properties of HoCr <sub>0.75</sub> Fe <sub>0.25</sub> O <sub>3</sub> compound. AIP Advances, 2018, 8, 056407.	1.3	3
43	Thickness-Dependent Magnetostatic Interactions and Domain State Configuration in Fe <sub>2</sub> CoSi Thin Films—FORC Analysis. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	3
44	Ferromagnetic Thickness Variation Exchange Bias in IrMn (111)/Fe <sub>2</sub> CoSi Hybrid Structure. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1313-1319.	1.8	3
45	Magnetic anomalies in a new manganocuprate Gd <sub>3</sub> Ba <sub>2</sub> Mn <sub>2</sub> Cu <sub>2</sub> O <sub>12</sub> . Solid State Communications, 2008, 147, 353-356.	1.9	2
46	Structural and spectroscopic studies on HoCr <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> (x = 0 and 0.5) compounds. AIP Conference Proceedings, 2018, , .	0.4	2
47	Formation of Metastable TbFe <sub>5</sub> Phase by Mechanical Alloying. IEEE Transactions on Magnetics, 2006, 42, 2793-2795.	2.1	1
48	Magnetostrictive Fe <sub>73</sub> Ga <sub>27</sub> nanocontacts for low-field conductance switching. Applied Physics Letters, 2016, 108, 242408.	3.3	1
49	Preparation of folic acid conjugated hematite nanoparticles using high energy ball milling for biomedical applications. AIP Conference Proceedings, 2018, , .	0.4	1
50	Magnetic and exchange bias properties of YCo thin films and IrMn/YCo bilayers. Journal of Magnetism and Magnetic Materials, 2018, 448, 172-179.	2.3	1
51	Spin transfer torque Bias (STTB) due to domain wall resistance in an infinitely long ferromagnetic nanowire. Nanotechnology, 2021, , .	2.6	1
52	Metamagnetic Transitions and Magnetocaloric Properties of HoCr <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> (x = 0.25 and 0.75) Compounds. Journal of Superconductivity and Novel Magnetism, 2022, 35, 2057-2067.	1.8	1
53	Pseudo magnetic properties and evidence for vortex state in Fe <sub>2</sub> NiGe Heusler alloy thin films. Journal of Magnetism and Magnetic Materials, 2022, 556, 169401.	2.3	1
54	Positive Exchange Bias in Potassium Split Graphene Nanoribbons. , 2016, , .		0

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55	Magnetocaloric properties of HoFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> compound. AIP Conference Proceedings, 2017, , .	0.4	0
56	Magnetic and optical effects in TiO <sub>2</sub> based dye sensitized solar cells. AIP Conference Proceedings, 2018, , .	0.4	0
57	Magnetic properties and domain imaging of Fe <sub>70</sub> Ga <sub>30</sub> films. AIP Conference Proceedings, 2020, , .	0.4	0
58	Anomalous domain wall dynamics in Ir <sub>50</sub> Mn <sub>50</sub> /Fe <sub>2</sub> CoSi bilayers. Journal of Magnetism and Magnetic Materials, 2022, 560, 169656.	2.3	0