

# Narayanan Venkataramani

## List of Publications by Year in descending order

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65  
papers

1,102  
citations

394421

19  
h-index

434195

31  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large room temperature magnetization in nanocrystalline zinc ferrite thin films. Applied Physics Letters, 2006, 88, 262506.	3.3	98
2	Study of magnetization and crystallization in sputter deposited LiZn ferrite thin films. Journal of Applied Physics, 1999, 86, 3303-3311.	2.5	85
3	Hysteresis and remanence in magnetolectric effects in functionally graded magnetostrictive-piezoelectric layered composites. Physical Review B, 2012, 85, .	3.2	64
4	Anomalous variation of coercivity with annealing in nanocrystalline NiZn ferrite films. Journal of Applied Physics, 2002, 91, 7592.	2.5	59
5	Annealing induced structural change in sputter deposited copper ferrite thin films and its impact on magnetic properties. Journal of Applied Physics, 2002, 91, 2220-2227.	2.5	55
6	The influence of substrate temperature and annealing on the properties of pulsed laser-deposited YIG films on fused quartz substrate. Journal of Magnetism and Magnetic Materials, 2008, 320, 2233-2236.	2.3	44
7	Enhanced magnetization in sputter-deposited copper ferrite thin films. Journal of Magnetism and Magnetic Materials, 2002, 246, 266-269.	2.3	38
8	Synthesis and Characterization of Crystallizable Anorthite-Based Glass for a Low-Temperature Cofired Ceramic Application. Journal of the American Ceramic Society, 2008, 91, 652-655.	3.8	37
9	Influence of Nature of Filler on Densification of Anorthite-Based Crystallizable Glass+Ceramic System for Low Temperature Cofired Ceramics Application. Journal of the American Ceramic Society, 2009, 92, 595-600.	3.8	37
10	FMR and Magnetic Studies on Polycrystalline YIG Thin Films Deposited Using Pulsed Laser. IEEE Transactions on Magnetics, 2013, 49, 990-994.	2.1	26
11	A TEM study on lithium zinc ferrite thin films and the microstructure correlation with the magnetic properties. Journal of Magnetism and Magnetic Materials, 2001, 231, 108-112.	2.3	25
12	Structural, magnetic and gas sensing properties of nanosized copper ferrite powder synthesized by sol gel combustion technique. Journal of Magnetism and Magnetic Materials, 2016, 418, 48-53.	2.3	24
13	Preparation of Low Microwave Loss YIG Thin Films by Pulsed Laser Deposition. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	23
14	Effect of substrate temperature on magnetic properties of MnFe <sub>2</sub> O <sub>4</sub> thin films. AIP Advances, 2018, 8, 056112.	1.3	23
15	Temperature and field dependent magnetization studies on nano-crystalline ZnFe <sub>2</sub> O <sub>4</sub> thin films. AIP Advances, 2018, 8, .	1.3	23
16	A study of nanosized magnesium ferrite particles with high magnetic moment. Journal of Magnetism and Magnetic Materials, 2015, 382, 225-232.	2.3	21
17	Room temperature magnetoelectric and magnetodielectric properties of 2 $\times$ 2 bilayer 0.50Pb (Ni <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> $\times$ 0.35PbTiO <sub>3</sub> $\times$ 0.15PbZrO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> thin film. Scripta Materialia, 2018, 150, 125-129.	5.2	21
18	Sputter deposited strontium ferrite films with c-axis oriented normal to the film plane. Applied Physics Letters, 1994, 64, 1579-1581.	3.3	20

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19	Thickness dependent anomalous magnetic behavior in pulsed-laser deposited cobalt ferrite thin film. Applied Physics A: Materials Science and Processing, 2012, 106, 931-935.	2.3	20
20	Low Temperature Magnetization Studies of Nanocrystalline Zn-Ferrite Thin Films. IEEE Transactions on Magnetics, 2013, 49, 4249-4252.	2.1	20
21	Narrow Ferromagnetic Resonance Linewidth Polycrystalline Zn-Ferrite Thin Films. IEEE Transactions on Magnetics, 2011, 47, 345-348.	2.1	19
22	Pulse Laser Deposited Nanocrystalline Cobalt Ferrite Thin Films. Journal of Nanoscience and Nanotechnology, 2010, 10, 3112-3117.	0.9	18
23	Substrate Temperature Dependent Anomalous Magnetic Behavior in $\text{CoFe}_2\text{O}_4$ Thin Film. IEEE Transactions on Magnetics, 2011, 47, 337-340.	2.1	18
24	Ethanol and Hydrogen Gas-Sensing Properties of $\text{CuO}/\text{CuFe}_2\text{O}_4$ Nanostructured Thin Films. IEEE Sensors Journal, 2018, 18, 6937-6945.	4.7	18
25	Stability of nonthermodynamic equilibrium cation distribution frozen during pulsed laser deposition of Co-ferrite thin films. Applied Physics A: Materials Science and Processing, 2010, 98, 889-894.	2.3	17
26	A Study of FMR Linewidth and Magnetic Order in Nanocrystalline $\text{ZnFe}_2\text{O}_4/\text{O}_2$ Thin Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	14
27	Temperature dependence of FMR and magnetization in nanocrystalline zinc ferrite thin films. AIP Advances, 2016, 6, 055928.	1.3	12
28	Room-temperature magneto-dielectric response in multiferroic $\text{ZnFe}_2\text{O}_4/\text{PMN-PT}$ bilayer thin films. Smart Materials and Structures, 2016, 25, 085032.	3.5	12
29	Low-loss YIG thick films for microwave applications. Ceramics International, 2019, 45, 4316-4321.	4.8	12
30	Lead-free $\text{Na}_0.4\text{K}_0.1\text{Bi}_0.5\text{TiO}_3$ ceramic: Poling effect and enhancement in electromechanical and piezoelectric voltage coefficient. Journal of the European Ceramic Society, 2020, 40, 5384-5391.	5.7	12
31	Faraday effect in cubic and tetragonal copper ferrite $\text{CuFe}_2\text{O}_4$ films—Comparative studies. Journal of Magnetism and Magnetic Materials, 2007, 316, e688-e691.	2.3	11
32	Effect of Morphological Change on Unipolar and Bipolar Switching Characteristics in $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ Based RRAM. Materials Research Society Symposia Proceedings, 2015, 1729, 47-52.	0.1	11
33	Emergence of reentrant relaxor behavior with enhanced electromechanical and electrocaloric effect in $\text{Ba}_{0.95}\text{Ca}_{0.05}\text{Sn}_{0.09}\text{Ti}_{0.91}\text{O}_3$ ceramic. Applied Physics Letters, 2020, 117, 212901.	3.3	11
34	Impact of oxygen partial pressure on resistive switching characteristics of PLD deposited $\text{ZnFe}_2\text{O}_4$ thin films for RRAM devices. Ceramics International, 2022, 48, 7876-7884.	4.8	11
35	Magnetic Properties of Nanocrystalline $\text{CoFe}_2\text{O}_4/\text{ZnFe}_2\text{O}_4$ Bilayers. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2653-2657.	1.8	10
36	Effect of thickness on magnetic and microwave properties of RF-sputtered Zn-ferrite thin films. AIP Advances, 2017, 7, .	1.3	10

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37	Effect of Annealing on the Structural and FMR Properties of Epitaxial YIG Thin Films Grown by RF Magnetron Sputtering. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	10
38	Enhanced magnetoelectric response in 2-2 bilayer $0.50\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3 \text{--} 0.35\text{PbTiO}_3 \text{--} 0.15\text{PbZrO}_3 / \text{NiFeO}_2$ thin films. Journal Physics D: Applied Physics, 2018, 51, 114004.	2.3	9
39	Observation of enhanced magnetic anisotropy in PLD YIG thin film on GGG ( $1 \times 1 \times 1$ ) substrate. Journal of Magnetism and Magnetic Materials, 2019, 483, 191-195.	2.3	8
40	Sputter deposited LiZn ferrite films on fused quartz substrates. Journal of Magnetism and Magnetic Materials, 1996, 152, L1-L4.	2.3	7
41	Complete Permittivity Tensor in Sputtered $\text{CuFe}_2\text{O}_4$ Thin Films at Photon Energies between 2 and 5 eV. Materials, 2013, 6, 4096-4108.	2.9	7
42	Nanocrystalline zinc ferrite films studied by magneto-optical spectroscopy. Journal of Applied Physics, 2015, 117, 17B726.	2.5	7
43	Effect of Oxygen Pressure on the Magnetic Properties of Yttrium-Iron-Garnet Thin Films Made by Pulsed Laser Deposition. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	7
44	Magnetic properties of pulsed laser deposited $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ( $0.10 \leq x \leq 0.70$ ) thin films. Journal of Magnetism and Magnetic Materials, 2018, 448, 192-198.	2.3	6
45	Magnetoelectric response in lead-free $\text{Na}_0.4\text{K}_0.1\text{Bi}_0.5\text{TiO}_3/\text{NiFe}_2\text{O}_4$ laminated composites. Materials Today Communications, 2021, 26, 101898.	1.9	6
46	Microstructural and mechanical behavior of $\text{Na}_0.4\text{K}_0.1\text{Bi}_0.5\text{TiO}_3$ ferroelectric ceramics. Ceramics International, 2022, 48, 26546-26552.	4.8	6
47	Moke spectroscopy of sputter deposited Cu-ferrite films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E885-E886.	2.3	5
48	MOKE spectroscopy of sputter-deposited Cu-ferrite films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 195-197.	2.3	5
49	Correlation of grain boundary nature with magnetization in RF-sputtered lithium-zinc ferrite thin films. Journal of Magnetism and Magnetic Materials, 2009, 321, 3373-3379.	2.3	5
50	Effect of quenching on the magnetic properties of Mg-ferrite thin films. AIP Advances, 2016, 6, .	1.3	5
51	Enhanced Ferroelectric and Converse Piezoelectric Properties of Dense Lead-Free $\text{Na}_{0.4}\text{K}_{0.1}\text{Bi}_{0.5}\text{TiO}_3$ Ceramics for Actuator Applications. Advances in Materials Physics and Chemistry, 2019, 09, 1-10.	3.8	4
52	Sassolite Formation in Glass Powders: A Novel Method to Study Phase Separation in Alkali Borosilicate Glass Compositions. Journal of the American Ceramic Society, 2010, 93, 3027-3030.	1.2	3
53	Anomalously large magnetic moment in nanocrystalline $\text{Co}_{0.3}\text{Zn}_{0.7}\text{Fe}_2\text{O}_4$ thin films. Journal of Physics Communications, 2017, 1, 035010.	1.8	3
54	Effect of substrate temperature on growth and electrical properties of pulsed laser deposition grown $0.5\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{--}0.35\text{PbTiO}_3\text{--}0.15\text{PbZrO}_3$ thin films. Thin Solid Films, 2018, 661, 16-22.		

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55	Microwave properties of RF- sputtered ZnFe <sub>2</sub> O <sub>4</sub> thin films. , 2014, , .		2
56	Evaluation of Exchange Stiffness From Temperature-Dependent Magnetization in ZnFe <sub>2</sub> O <sub>4</sub> Thin Films. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
57	PMN-PT thin films on La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> seeded platinized glass substrate: phase formation, dielectric and ferroelectric studies. Materials Research Express, 2018, 5, 096408.	1.6	2
58	Large Room Temperature Magnetic Moment in Mn <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> Thin Films for $\{x \geq 0.4\}$ . IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	2
59	Bipolar resistive switching with improved memory window in W/ZnFe <sub>2</sub> O <sub>4</sub> /Pt devices. Materials Science in Semiconductor Processing, 2022, 142, 106497.	4.0	2
60	Magnetic and FMR Study on CoFe <sub>2</sub> O <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> Bilayers. IEEE Transactions on Magnetics, 2013, 49, 4200-4203.	2.1	1
61	Influence of PbTiO <sub>3</sub> addition on microstructure of (1-x)Pb(Mg <sub>1-3</sub> Nb <sub>2-3</sub> )O <sub>3-x</sub> PbTiO <sub>3</sub> ceramics. , 2013, , .		1
62	Thermal Budget Reduction for Back-end Compatibility and Control of Resistance Switching Mechanism (Unipolar to Bipolar) in Pr <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> (PCMO) RRAM. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	1
63	Conducting Oxide Electrode to Mitigate Mechanical Instability (Bubble Formation) during Operation of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (LSMO) based RRAM. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	1
64	(Na <sub>0.8</sub> K <sub>0.2</sub> ) <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> thin film: A Pb-free MPB composition with large piezoelectricity. AIP Conference Proceedings, 2020, , .	0.4	1
65	Effect of Annealing on the Structural and FMR Properties of Epitaxial Yig Thin Films Grown by RF Magnetron Sputtering. , 2018, , .		0