

A Venimadhav

List of Publications by Year in descending order

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114
papers

2,400
citations

186209

28
h-index

265120

42
g-index

116
all docs

116
docs citations

116
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	Substantial magnetoelectric coupling near room temperature in Bi ₂ Fe ₄ O ₉ . Applied Physics Letters, 2008, 92, .	1.5	147
2	Giant zero field cooled spontaneous exchange bias effect in phase separated La _{1.5} Sr _{0.5} CoMnO ₆ . Applied Physics Letters, 2013, 103, .	1.5	100
3	Electroactive poly(vinylidene fluoride) fluoride separator for sodium ion battery with high coulombic efficiency. Solid State Ionics, 2016, 292, 130-135.	1.3	89
4	Giant magnetocaloric effect in Gd ₂ NiMnO ₆ and Gd ₂ CoMnO ₆ ferromagnetic insulators. Journal Physics D: Applied Physics, 2015, 48, 355001.	1.3	74
5	Understanding the improved electrochemical performance of nitrogen-doped hard carbons as an anode for sodium ion battery. Electrochimica Acta, 2019, 317, 164-172.	2.6	70
6	Dielectric and Magnetodielectric Properties of (R ₂ NiMnO ₆) (R = Nd, Eu, Gd, Dy, Tm, Yb, Lu) T ₁ ETQq0 0 0	1.9	67
7	The extrinsic origin of the magnetodielectric effect in the double perovskite La ₂ NiMnO ₆ . Journal of Physics Condensed Matter, 2012, 24, 495901.	0.7	65
8	Investigation of the intrinsic magnetodielectric effect in La ₂ CoMnO ₆ : role of magnetic disorder. Journal of Materials Chemistry C, 2015, 3, 836-843.	2.7	62
9	Spin glass behaviour and extrinsic origin of magnetodielectric effect in non-multiferroic La ₂ NiMnO ₆ nanoparticles. Journal of Physics Condensed Matter, 2012, 24, 376003.	0.7	58
10	Magnetodielectric behavior in La ₂ CoMnO ₆ nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	54
11	Temperature dependent magnetic and dielectric properties of M-type hexagonal BaFe ₁₂ O ₁₉ nanoparticles. Journal of Alloys and Compounds, 2012, 545, 225-230.	2.8	53
12	A porous poly (vinylidene fluoride-co-hexafluoropropylene) based separator-cum-gel polymer electrolyte for sodium-ion battery. Journal of Electroanalytical Chemistry, 2018, 826, 142-149.	1.9	48
13	Role of defects and oxygen vacancies on dielectric and magnetic properties of Pb ²⁺ ion doped LaFeO ₃ polycrystalline ceramics. Physica B: Condensed Matter, 2014, 448, 304-311.	1.3	45
14	Reentrant cluster glass behavior in La ₂ CoMnO ₆ nanoparticles. Journal of Applied Physics, 2013, 113, .	1.1	43
15	Oxygen assisted deposition of Sr ₂ FeMoO ₆ thin films on SrTiO ₃ (100). Journal of Magnetism and Magnetic Materials, 2004, 269, 101-105.	1.0	42
16	Structural, magnetic and transport properties of Sr ₂ Fe _{1-x} Mg _x MoO ₆ double perovskites. Solid State Sciences, 2005, 7, 912-919.	1.5	41
17	PVDF/halloysite nanocomposite based non-wovens as gel polymer electrolyte for high safety lithium ion battery. Polymer Composites, 2019, 40, 2320-2334.	2.3	41
18	Multicaloric effect in multiferroic Y ₂ CoMnO ₆ . Journal Physics D: Applied Physics, 2014, 47, 445002.	1.3	38

#	ARTICLE	IF	CITATIONS
19	Antisite disorder driven spontaneous exchange bias effect in $\text{La}_{2-x}\text{Sr}_x\text{CoMnO}_6$ ($0 \leq x \leq 1/2$). <i>Journal of Physics Condensed Matter</i> , 2016, 28, 086003.		31
20	4 f-3 d exchange coupling induced exchange bias and field induced Hopkinson peak effects in $\text{Gd}_2\text{CoMnO}_6$. <i>Journal of Alloys and Compounds</i> , 2017, 719, 341-346.	2.8	37
21	Structural and thermoelectric properties of $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_y$ thin films on LaAlO_3 (100) and fused silica substrates. <i>Applied Physics Letters</i> , 2009, 94, 022110.	1.5	36
22	Metamagnetic behaviour and effect of field cooling on sharp magnetization jumps in multiferroic Y_2CoMnO_6 . <i>Europhysics Letters</i> , 2014, 108, 27013.	0.7	36
23	High performance electrospun nanofiber coated polypropylene membrane as a separator for sodium ion batteries. <i>Journal of Power Sources</i> , 2020, 460, 228060.	4.0	35
24	Time-resolved optical studies of spin and quasiparticle dynamics in colossal magnetoresistance materials: $\text{La}_{0.67}\text{Mn}_{0.33}\text{O}_3$. <i>Physical Review B</i> , 2008, 78, .	1.1	31
25	Cation Size Variance Effects in Magnetoresistive $\text{Sr}_2\text{FeMoO}_6$ Double Perovskites. <i>Chemistry of Materials</i> , 2005, 17, 176-180.	3.2	29
26	Intrinsic and extrinsic contributions to magnetodielectric effect in double perovskite $\text{La}_2\text{CoMnO}_6$ nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2013, 3, 25-28.	1.6	29
27	Generation and detection of coherent longitudinal acoustic phonons in the $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ thin films by femtosecond light pulses. <i>Applied Physics Letters</i> , 2007, 90, 251918.	1.5	28
28	$\text{Bi}_3\text{Fe}_4\text{Ga}_1\text{O}_{12}$ Garnet Properties and Its Application to Ultrafast Switching in the Visible Spectrum. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 3656-3660.	1.2	28
29	Strain-induced metallic behavior in PrNiO_3 epitaxial thin films. <i>Materials Research Bulletin</i> , 2002, 37, 201-208.	2.7	27
30	An amorphous poly(vinylidene fluoride-co-hexafluoropropylene) based gel polymer electrolyte for magnesium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2020, 858, 113788.	1.9	27
31	Spin phonon interactions and magnetodielectric effects in multiferroic BiFeO_3 – PbTiO_3 . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 075901.	0.7	26
32	Enhancement of magnetoresistance in manganite multilayers. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2921-2926.	1.3	25
33	Tailoring of magnetic orderings in Fe substituted GdMnO_3 bulk samples towards room temperature. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 405803.	0.7	25
34	Electrospun electroactive polyvinylidene fluoride-based fibrous polymer electrolyte for sodium ion batteries. <i>Materials Research Express</i> , 2019, 6, 086318.	0.8	25
35	Electrochemical characterization of a polar P^2 -phase poly (vinylidene fluoride) gel electrolyte in sodium ion cell. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 411-417.	1.9	25
36	Magnetic field-induced metamagnetic, magnetocaloric and pyrocurrent behaviors of $\text{Eu}_2\text{CoMnO}_6$. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166387.	1.0	25

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37	Electrochemical properties and first-principle analysis of $\text{Na}_x[\text{M}_y\text{Mn}_{1-y}]\text{O}_2$ ($\text{M} = \text{Fe, Ni}$) cathode. Journal of Solid State Electrochemistry, 2018, 22, 1079-1089.	1.2	24
38	Photoinduced coherent magnetization precession in epitaxial $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ films. Physical Review B, 2006, 73, .	1.1	23
39	Thin film manganese oxide polymorphs as anode for sodium-ion batteries: An electrochemical and DFT based study. Materials Chemistry and Physics, 2018, 217, 82-89. Electric and magnetic polarizabilities of hexagonal $\langle \text{mml}:\text{math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$	2.0	23

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55	Multiple caloric effects in geometrically frustrated $\text{CaBaCo}_4\text{O}_7$ Cobaltite. Journal of Magnetism and Magnetic Materials, 2016, 418, 76-80.	1.0	16
56	Temperature and magnetic field dependent martensite transformation in Al doped Ni-Mn-Sn disorder alloys and its effects on magnetoresistance and magnetocaloric effect near room temperature. Materials Research Express, 2018, 5, 086511.	0.8	16
57	An electroactive $\hat{\Gamma}^2$ -phase polyvinylidene fluoride as gel polymer electrolyte for magnesium-ion battery application. Journal of Electroanalytical Chemistry, 2019, 851, 113417.	1.9	16
58	Unusual dielectric response in B-site size-disordered hexagonal transition metal oxides. Applied Physics Letters, 2010, 96, .	1.5	15
59	Magnetostructural coupling and multiferroic properties in the spin-frustrated system $\text{CaBaCo}_4\text{O}_7$. Journal of Magnetism and Magnetic Materials, 2016, 418, 2-8.	1.1	15
60	A new strategy of PVDF based Li-salt polymer electrolyte through electrospinning for lithium battery application. Materials Research Express, 2019, 6, 035303.	0.8	15
61	Weak ferromagnetism in band-gap engineered $\text{La}_{1-x}\text{Fe}_x\text{O}_3$ nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 473, 119-124.	1.0	15
62	Scanning Raman Spectroscopy for Characterizing Compositionally Spread Films. ACS Combinatorial Science, 2005, 7, 85-89.	3.3	14
63	Angular dependence of spin-wave resonance and relaxation in half-metallic $\text{Sr}_2\text{FeMoO}_6$ films. Journal of Applied Physics, 2008, 103, .	1.1	14
64	Observation of Griffiths-like phase and its tunability in $\text{La}_2\text{Ni}_{1-x}\text{Co}_x\text{MnO}_6$ ($0 \leq x \leq 1$) nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 418, 2-8.	1.0	14
65	Magnetic and lattice entropy change across martensite transition of Ni-Mn-Sn melt spun ribbons: Key factors in magnetic refrigeration. Journal of Magnetism and Magnetic Materials, 2018, 466, 385-392.	1.0	13
66	Switching from pyroelectric to ferroelectric order in Ni-doped $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2017, 96, .	1.1	12
67	Terahertz-frequency magnetoelectric effect in Ni-doped $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2017, 96, .	1.1	12
68	Investigations on the defect dipole induced pyroelectric current in multiferroic GdMnO_3 system. Journal of Applied Physics, 2018, 123, .	1.1	10
69	Magnetic properties and specific heat of $\text{LaMn}_{1-x}\text{Ti}_x\text{O}_3$ ($0 < x \leq 0.2$). Journal of Magnetism and Magnetic Materials, 2003, 260, 361-370.	1.0	9
70	High Curie temperature in B-site ordered Sr_2CrWO_6 epitaxial thin films. Solid State Communications, 2006, 138, 314-317.	0.9	9
71	Magnetization reversal phenomena and bipolar switching in $\text{La}_{1.9}\text{Bi}_{0.1}\text{FeCrO}_6$. Physica B: Condensed Matter, 2014, 448, 162-166.	1.3	9
72	Absence of dipolar ordering in Co doped CuO . Solid State Communications, 2016, 247, 36-39.	0.9	9

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73	A high thermally stable polyacrylonitrile (PAN)-based gel polymer electrolyte for rechargeable Mg-ion battery. Journal of Materials Science: Materials in Electronics, 2020, 31, 22912-22925.	1.1	9
74	A facile and green synthesis approach to derive highly stable SiO _x -hard carbon based nanocomposites for use as the anode in lithium-ion batteries. Sustainable Energy and Fuels, 2020, 4, 6054-6065.	2.5	9
75	Influence of cuprate spacer layer on electrical and magnetic properties of La _{0.6} Pb _{0.4} MnO ₃ /La ₄ BaCu ₅ O _{13+x} multilayers. Physical Review B, 2001, 63, .	1.1	8
76	An amorphous polyvinylidene fluoride-co-hexafluoropropylene based gel polymer electrolyte for sodium-ion cells. Applied Surface Science Advances, 2021, 6, 100139.	2.9	8
77	Anisotropic electrical transport property in La ₄ BaCu ₅ O _{13+δ} and La ₄ BaCu ₄ NiO _{13+δ} epitaxial thin films. Applied Physics Letters, 1999, 75, 1598-1600.	1.5	7
78	Coexistence of weak ferromagnetism with magnetoelectric coupling in Fe substituted Co ₄ Nb ₂ O ₉ . Journal of Alloys and Compounds, 2017, 726, 148-153.	2.8	7
79	A study of magnetic ordering in multiferroic hexagonal Ho _{1-x} Dy _x MnO ₃ . Journal of Applied Physics, 2015, 117, 074104.	1.1	6
80	Defect induced polarization and dielectric relaxation in Ga _{2-x} Fe _x O ₃ . Applied Physics Letters, 2017, 111, .	1.5	6
81	Doping a dipole into an incipient ferroelectric: Route to relaxor ferroelectrics. Physical Review B, 2017, 96, .	1.1	6
82	Pyrolysis-controlled synthesis and magnetic properties of sol-gel electrospun nickel cobaltite nanostructures. Journal of Sol-Gel Science and Technology, 2018, 86, 664-674.	1.1	6
83	Observation of room-temperature ferroelectricity in spark-plasma sintered $GdCrO_3$. Physical Review B, 2021, 104, .		
84	Magnetotransport properties in thin films of charge-ordered materials. Journal of Applied Physics, 2001, 89, 8057-8060.	1.1	5
85	Magnetic Glassy Behavior of Pr _{0.6} Ca _{0.4} MnO ₃ Nanoparticles: Effect of Intra and Interparticle Magnetic Interactions on Magnetodielectric Property. Journal of Physical Chemistry C, 2014, 118, 27728-27734.	1.5	5
86	Field induced martensitic phase transition in nonstoichiometric Ni ₄₅ Mn ₄₄ Sn ₁₁ Heusler alloy. AIP Conference Proceedings, 2017, , .	0.3	5
87	Biphasic $\sqrt{2}$ -Type NaMn _{0.89} Fe _{0.11} O ₂ as a Cathode for Sodium-Ion Batteries: Structural Insight and High-Performance Relation. ACS Applied Energy Materials, 2022, 5, 116-125.	2.5	5
88	Synthesis And Characterization Of Ni-PVDF Nano-Composites. AIP Conference Proceedings, 2008, , .	0.3	4
89	Magnetocaloric effect in double perovskite La ₂ CoMnO ₆ . , 2012, , .		4
90	A study of crossover from 3D ferrimagnetic bulk NiCr ₂ O ₄ compound into 2D spin-glass-like nanophase. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	4

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91	Anomalous freezing of dielectric polarons near magnetic ordering in multiferroic La _{0.5} Bi _{0.5} FeO ₃ . <i>Ceramics International</i> , 2019, 45, 6250-6254.	2.3	4
92	Ferroelectricity in CaBaCo ₄ O ₇ by light non magnetic Zn doping. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 385802.	0.7	4
93	Revisiting and enhancing electrochemical properties of SnO ₂ as anode for sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 561-573.	1.2	4
94	Magnetic properties of La ₂ NiMnO ₆ nanoparticles. , 2012, , .		3
95	Structural, magnetic and electric-polarization properties of geometrically frustrated YBaCo ₄ O ₇ and DyBaCo ₄ O ₇ cobaltites. <i>Europhysics Letters</i> , 2019, 127, 67001.	0.7	3
96	Tuning the permittivity of tellurium dioxide by Ti substitution. <i>Ceramics International</i> , 2020, 46, 8827-8831.	2.3	3
97	Structural and electrochemical kinetics of Na ⁺ /Fe ²⁺ /Mn ²⁺ /O thin-film cathode: a synergistic effect of deposition conditions. <i>Ionics</i> , 2021, 27, 2421-2430.	1.2	3
98	Superior diffusion kinetics and electrochemical properties of $\sqrt{2} \times \sqrt{2}$ -type NaMn _{0.89} Co _{0.11} O ₂ as cathode for sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1231-1239.	1.2	3
99	Thermoelectric properties of epitaxial and topotaxial Na _x CoO ₂ thin films. <i>Materials Research Society Symposia Proceedings</i> , 2005, 886, 1.	0.1	2
100	Synthesis And Magnetic Properties Of La ₂ NiMnO ₆ Nanoparticles. , 2011, , .		2
101	Growth And Magnetic Properties Of La ₂ NiMnO ₆ Epitaxial Thin Films. , 2011, , .		2
102	Size dependent magnetic properties of double perovskite La ₂ CoMnO ₆ nanoparticles. , 2013, , .		2
103	Magnetic field induced dielectric relaxation in the strain glass state of Pr _{0.6} Ca _{0.4} MnO ₃ . <i>Journal of Applied Physics</i> , 2013, 113, 173907.	1.1	1
104	High dielectric permittivity in BaFe ₁₂ O ₁₉ /polyvinylidene fluoride composites. , 2013, , .		1
105	Superior electrochemical performance of NaFe _{0.5} Mn _{0.5} O ₂ thin film electrode fabricated by pulse laser deposition. <i>Materials Today: Proceedings</i> , 2020, 33, 5425-5428.	0.9	1
106	Novel dual core@shell Fe ₃ O ₄ @C@polypyrrole (PPy) composite for sodium ion batteries. <i>Materials Today: Proceedings</i> , 2020, 33, 5088-5092.	0.9	1
107	Electron transport characteristics of FeGa, Ni/n-Si junctions by impedance spectroscopy. <i>Superlattices and Microstructures</i> , 2021, 156, 106958.	1.4	1
108	Structural, Magnetic and Transport Properties of Sr ₂ Fe _{1-x} Mg _x MoO ₆ (0 ≤ x ≤ 1) Double Perovskites.. <i>ChemInform</i> , 2005, 36, no.	0.1	0

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109	Investigate the doped magnetic garnets and their applications to ultrafast switching. , 2006, , .		0
110	Unusual magnetodielectric response in La ₂ CoMnO ₆ nanoparticles. , 2012, , .		0
111	Study of percolation behavior in semiconducting La _[sub 0.95] MnO _[sub 3] /polyvinylidene fluoride nanocomposites. , 2013, , .		0
112	Weak Ferromagnetic in Band Gap Engineered Cr ₂ O ₃ Doped with $\hat{\pm}$ -Fe ₂ O ₃ Doped. , 2018, , .		0
113	Investigation of current transport in Galfenol based Schottky diodes. Materials Today: Proceedings, 2020, 33, 5116-5122.	0.9	0
114	Comparative Studies on Crystalline and Amorphous Vinylidene Fluoride Based Fibrous Polymer Electrolytes for Sodium-Ion Batteries. , 2021, , 55-64.		0