

Pattukannu Murugavel

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86

papers

2,371

citations

24

h-index

46

g-index

91

ext. papers

2,629

ext. citations

3.5

avg, IF

4.92

L-index

#	Paper	IF	Citations
86	The single-phase multiferroic oxides: from bulk to thin film. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, R803-R832	1.8	528
85	Magnetoelectric effects of nanoparticulate $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3/\text{NiFe}_2\text{O}_4$ composite films. <i>Applied Physics Letters</i> , 2006 , 89, 102907	3.4	126
84	Role of oxygen vacancy and Fe-O-Fe bond angle in compositional, magnetic, and dielectric relaxation on Eu-substituted BiFeO_3 nanoparticles. <i>Dalton Transactions</i> , 2014 , 43, 5731-8	4.3	125
83	Ferroelectricity driven by Y d0-ness with rehybridization in YMnO_3 . <i>Physical Review Letters</i> , 2007 , 98, 217601	7.4	105
82	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO_3 Thin Films. <i>Advanced Materials</i> , 2006 , 18, 3125-3129	24	84
81	Origin of metal-insulator transition temperature enhancement in underdoped lanthanum manganite films. <i>Applied Physics Letters</i> , 2003 , 82, 1908-1910	3.4	76
80	Electronic structures of hexagonal RMnO_3 (R=Gd, Tb, Dy, and Ho) thin films: Optical spectroscopy and first-principles calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	71
79	Multiferroic properties of epitaxially stabilized hexagonal DyMnO_3 thin films. <i>Applied Physics Letters</i> , 2007 , 90, 012903	3.4	57
78	The role of ferroelectric-ferromagnetic layers on the properties of superlattice-based multiferroics. <i>Journal of Applied Physics</i> , 2005 , 97, 103914	2.5	54
77	Tailoring of ferromagnetic $\text{Pr}_{0.85}\text{Ca}_{0.15}\text{MnO}_3$ /ferroelectric $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ superlattices for multiferroic properties. <i>Applied Physics Letters</i> , 2004 , 85, 4424	3.4	51
76	Sub-micrometre spherical particles of TiO_2 , ZrO_2 and PZT by nebulized spray pyrolysis of metal-organic precursors. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1433-1438		48
75	Enhanced magnetoresistance in ferromagnetic $\text{Pr}_{0.85}\text{Ca}_{0.15}\text{MnO}_3$ /ferroelectric $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ superlattice films. <i>Applied Physics Letters</i> , 2004 , 85, 4992-4994	3.4	44
74	Effect of orbital rotation and mixing on the optical properties of orthorhombic RMnO_3 (R=La, Pr, Nd, Gd, and Tb). <i>Physical Review Letters</i> , 2006 , 96, 247205	7.4	42
73	Physical properties of multiferroic hexagonal HoMnO_3 thin films. <i>Applied Physics Letters</i> , 2007 , 90, 142902	3.4	41
72	Origin of enhanced magnetization in rare earth doped multiferroic bismuth ferrite. <i>Journal of Applied Physics</i> , 2014 , 115, 073902	2.5	40
71	Origin of the 2eV peak in optical absorption spectra of LaMnO_3 : an explanation based on the orbitally degenerate Hubbard model. <i>New Journal of Physics</i> , 2004 , 6, 156-156	2.9	40
70	Interface Control of Ferroelectricity in an $\text{SrRuO}_3/\text{BaTiO}_3/\text{SrRuO}_3$ Capacitor and its Critical Thickness. <i>Advanced Materials</i> , 2017 , 29, 1602795	24	39

69	Investigating Size- and Temperature-Dependent Coercivity and Saturation Magnetization in PEG Coated Fe ₃ O ₄ Nanoparticles. <i>Magnetochemistry</i> , 2017 , 3, 19	3.1	38
68	Optical spectroscopic investigation on the coupling of electronic and magnetic structure in multiferroic hexagonal RMnO ₃ (R=Gd, Tb, Dy, and Ho) thin films. <i>Physical Review B</i> , 2008 , 78,	3.3	38
67	Photovoltaic and photo-capacitance effects in ferroelectric BiFeO ₃ thin film. <i>Applied Physics Letters</i> , 2017 , 110, 192906	3.4	35
66	Epitaxial stabilization of artificial hexagonal GdMnO ₃ thin films and their magnetic properties. <i>Applied Physics Letters</i> , 2007 , 90, 182504	3.4	35
65	Magnetic, dielectric and magnetodielectric properties of PVDF-La _{0.7} Sr _{0.3} MnO ₃ polymer nanocomposite film. <i>AIP Advances</i> , 2013 , 3, 112109	1.5	32
64	Giant photovoltaic response in band engineered ferroelectric perovskite. <i>Scientific Reports</i> , 2018 , 8, 8005.9	4.9	25
63	Polarization controlled photovoltaic and self-powered photodetector characteristics in Pb-free ferroelectric thin film. <i>APL Materials</i> , 2019 , 7, 011106	5.7	23
62	Magnetic excitations in charge-ordered Nd _{0.5} Ca _{0.5} MnO ₃ : A Brillouin scattering study. <i>Europhysics Letters</i> , 2000 , 52, 461-467	1.6	21
61	Magnetoelectric effect in La _{0.7} Sr _{0.3} MnO ₃ /BaTiO ₃ core-shell nanocomposite. <i>Materials Research Bulletin</i> , 2013 , 48, 1308-1311	5.1	20
60	Effects of oxygen annealing on the physical properties and surface microstructures of La _{0.8} Ba _{0.2} MnO ₃ films. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 3166-3170	3	19
59	Study of ferroelectric characteristics of diisopropylammonium bromide films. <i>Journal of Applied Physics</i> , 2016 , 120, 124107	2.5	19
58	Tailoring of magnetic orderings in Fe substituted GdMnO bulk samples towards room temperature. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 405803	1.8	18
57	Strong enhancement of magnetoelectric coupling in Dy ³⁺ doped HoMnO ₃ . <i>Applied Physics Letters</i> , 2012 , 101, 022902	3.4	18
56	A study of ferroelectric thin films deposited on a LaNiO ₃ barrier electrode by nebulized spray pyrolysis. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 906-911	3	18
55	Magnetic properties of lanthanum orthoferrite fine powders prepared by different chemical routes. <i>Journal of Chemical Sciences</i> , 2003 , 115, 519-524	1.8	17
54	Enhanced bulk photovoltaic response in Sn doped BaTiO ₃ through composition dependent structural transformation. <i>Applied Physics Letters</i> , 2019 , 114, 183901	3.4	16
53	Large photovoltaic response in rare-earth doped BiFeO ₃ polycrystalline thin films near morphotropic phase boundary composition. <i>Applied Physics Letters</i> , 2019 , 114, 173901	3.4	16
52	Large Bulk Photovoltaic Response by Symmetry-Breaking Structural Transformation in Ferroelectric [Ba(Zr _{0.2} Ti _{0.8})O ₃] _{0.5} [Ba _{0.7} Ca _{0.3} TiO ₃] _{0.5} . <i>Physical Review Applied</i> , 2019 , 11,	4.3	15

51	Spin-glass state in nanoparticulate $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3)_{1-x}(\text{BaTiO}_3)_x$ solid solutions: Experimental and density-functional studies. <i>Physical Review B</i> , 2016 , 93,	3.3	14
50	The magnetotransport properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{BaTiO}_3$ superlattices grown by pulsed laser deposition technique. <i>Journal of Applied Physics</i> , 2006 , 100, 023520	2.5	14
49	Impact of cationic vacancies on the physical characteristics of multiferroic GdMnO_3 . <i>Journal of Applied Physics</i> , 2018 , 123, 234102	2.5	13
48	Engineering Resonance Modes for Enhanced Magnetolectric Coupling in Bilayer Laminate Composites for Energy Harvesting Applications. <i>Physical Review Applied</i> , 2020 , 13,	4.3	12
47	The role of precursors on piezoelectric and ferroelectric characteristics of 0.5BCT-0.5BZT ceramic. <i>Ceramics International</i> , 2018 , 44, 6861-6865	5.1	12
46	Enhanced magnetic properties in low doped $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ ($x=0, 0.1$ and 0.2) nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 364, 125-128	2.8	12
45	Polarization driven self-biased and enhanced UV-visible photodetector characteristics of ferroelectric thin film. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 275302	3	12
44	Ferroelectric ordering and magnetolectric effect of pristine and Ho-doped orthorhombic DyMnO_3 by dielectric studies. <i>Journal of Applied Physics</i> , 2015 , 118, 074102	2.5	11
43	Study of magnetodielectric effect in hexagonal $\text{Ho}_{1-x}\text{Dy}_x\text{MnO}_3$. <i>Journal of Applied Physics</i> , 2012 , 112, 104116	2.5	11
42	Effect of oxygen pressure on the interface related magnetic and transport properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{BaTiO}_3$ superlattices. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 3377-3384	1.8	11
41	A Brillouin study of the temperature-dependence of the acoustic modes across the insulator-metal transitions in V_2O_3 and Cr-doped V_2O_3 . <i>Solid State Communications</i> , 2006 , 138, 466-471	1.6	11
40	Thickness dependent and annealing effects of underdoped lanthanum manganite thin films grown on Si substrates. <i>Journal of Applied Physics</i> , 2004 , 95, 2536-2539	2.5	11
39	Impedance spectroscopic analysis of the organic ferroelectric diisopropylammonium bromide (DIPAB). <i>Current Applied Physics</i> , 2014 , 14, 688-690	2.6	10
38	Synthesis and role of Nd and Sm on the microwave dielectric properties of $\text{BaNd}_2(1-x)\text{Sm}_x\text{Ti}_5\text{O}_{14}$ dielectric resonator. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 48, 202-204	3.1	10
37	Structure and ferroelectric properties of epitaxial $(1-x)\text{BiFeO}_3-x\text{BaTiO}_3$ solid solution films. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 415208	1.8	10
36	Impedance characteristics and PTCR effect in lead free $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ piezoceramics. <i>Materials Research Bulletin</i> , 2018 , 106, 371-378	5.1	10
35	Study of enhanced magnetism in Lu doped multiferroic bismuth ferrite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 199, 121-124	3.1	9
34	Spin-flop and magnetodielectric reversal in Yb substituted GdMnO_3 . <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125801	1.8	9

33	Investigations on the defect dipole induced pyroelectric current in multiferroic GdMnO ₃ system. <i>Journal of Applied Physics</i> , 2018 , 123, 014102	2.5	9
32	Preparation and characterization of sub-micron spherical particles of Al ₂ O ₃ , SiO ₂ and mullite. <i>Materials Chemistry and Physics</i> , 1998 , 53, 247-251	4.4	9
31	Dipole pinning effect on photovoltaic characteristics of ferroelectric BiFeO ₃ films. <i>Journal of Applied Physics</i> , 2018 , 123, 024101	2.5	8
30	Large magnetoelectric coupling in 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ ·0.5(Ba _{0.7} Ca _{0.3})TiO ₃ film on Ni foil. <i>Journal of Physics D: Applied Physics</i> , 2019 , 52, 065004	3	8
29	Vibrational spectroscopic and computational studies on diisopropylammonium bromide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 184, 211-219	4.4	7
28	Growth behavior of artificial hexagonal GdMnO ₃ thin films. <i>Journal of Crystal Growth</i> , 2008 , 310, 829-835.	6	7
27	Growth and Characterization of Epitaxial Barium Titanate and Cobalt Ferrite Composite Film. <i>Journal of the Korean Physical Society</i> , 2005 , 47, 345	0.6	7
26	Self-polarization effect on large photovoltaic response in lead free ferroelectric 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ epitaxial film. <i>Applied Physics Letters</i> , 2018 , 113, 233902	3.4	7
25	Pressure induced phase transformations in diisopropylammonium bromide. <i>Journal of Solid State Chemistry</i> , 2019 , 274, 182-187	3.3	6
24	Impedance and magnetoelectric characteristics of (1-x)BaTiO ₃ ·xLa _{0.7} Sr _{0.3} MnO ₃ (x = 0.1 and 0.3) nano-composites. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 615-622	2.6	6
23	Brillouin scattering from C70 and C60 films: a comparative study of elastic properties. <i>Chemical Physics Letters</i> , 2000 , 331, 149-153	2.5	6
22	Investigations on the effect of magnetic ordering on dielectric relaxation in polycrystalline GdMn _{1-x} Fe _x O ₃ . <i>Physica B: Condensed Matter</i> , 2019 , 555, 99-105	2.8	6
21	A study of magnetic ordering in multiferroic hexagonal Ho _{1-x} Dy _x MnO ₃ . <i>Journal of Applied Physics</i> , 2015 , 117, 074104	2.5	5
20	Formation of hexagonal phase of TbMnO ₃ thin film and its multiferroic properties. <i>Journal of Materials Research</i> , 2007 , 22, 2156-2162	2.5	5
19	Electric field and mechanical stress driven structural inhomogeneity and compositionally induced relaxor phase transformation in modified BaTiO ₃ based lead-free ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 365401	1.8	4
18	Crystalline alumina films prepared by nebulized spray pyrolysis. <i>Bulletin of Materials Science</i> , 1998 , 21, 107-110	1.7	4
17	Publisher's Note: Electronic structures of hexagonal RMnO ₃ (R=Gd, Tb, Dy, and Ho) thin films: Optical spectroscopy and first-principles calculations [Phys. Rev. B 77, 045137 (2008)]. <i>Physical Review B</i> , 2008 , 77,	3.3	4
16	Ferroelectric properties of multiferroic hexagonal ErMnO ₃ thin films. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 841-845	0.6	4

15	Large magnetoelectric response in lead free BaTi _{1-x} SnxO ₃ /NiFe ₂ O ₄ bilayer laminated composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6725-6733	2.1	4
14	Bulk photovoltaic effect in BaTiO ₃ -based ferroelectric oxides: An experimental and theoretical study. <i>Journal of Applied Physics</i> , 2021 , 129, 084106	2.5	4
13	Influence of external electric field on the physical characteristics of lead free BZT- BCT piezoceramic. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 990-995	5.7	3
12	Physical vapor deposited organic ferroelectric diisopropylammonium bromide film and its self-powered photodetector characteristics.. <i>RSC Advances</i> , 2020 , 10, 25773-25779	3.7	3
11	Ferromagnetism and metal-like transport in antiferromagnetic insulator heterostructures. <i>Applied Physics Letters</i> , 2005 , 87, 022506	3.4	3
10	Magnetocaloric effect in (La _{0.7} Sr _{0.3} MnO ₃) _{1-x} (BaTiO ₃) _x solid solution spin-glass system. <i>Journal of Materials Science</i> , 2018 , 53, 2405-2412	4.3	2
9	A Brillouin scattering study of the quasi-one-dimensional blue bronze, K _{0.3} MoO ₃ . <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L225-L231	1.8	2
8	Room-temperature magnetization reversal and magnetocaloric switching in Fe substituted GdMnO ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
7	Photoferroelectric phenomena in ferroelectric oxides and a Rayleigh analysis. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
6	Linear bulk photovoltaic effect and phenomenological study in multi-phase co-existing ferroelectric system. <i>Journal of Physics Condensed Matter</i> , 2020 ,	1.8	2
5	Role of rare earth on the Mn ³⁺ spin reorientation in multiferroic Ho _{1-x} LuxMnO ₃ . <i>Journal of Applied Physics</i> , 2013 , 114, 094102	2.5	1
4	Large electrocaloric effect and energy storage performance of site-engineered lead-free Ba _{1-x} (Bi _{0.5} Li _{0.5}) _x TiO ₃ ferroelectric oxides. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 045302	3	1
3	The composition and poling-dependent photovoltaic studies in ferroelectric (Bi _{1-x} Sr _x)(Fe _{1-x} Ti _x)O ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 1515-1523 ^{2.1}		0
2	Oxides: Their Properties and Uses 2013 , 47-72		
1	Photoelectrocaloric effect in ferroelectric oxide.. <i>Scientific Reports</i> , 2022 , 12, 6390	4.9	