Pattukannu Murugavel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

2,371 24 46 g-index

91 2,629 3.5 4.92 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
86	Photoelectrocaloric effect in ferroelectric oxide <i>Scientific Reports</i> , 2022 , 12, 6390	4.9	
85	Large electrocaloric effect and energy storage performance of site-engineered lead-free Ba1-x (Bi0.5Li0.5) x TiO3 ferroelectric oxides. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 045302	3	1
84	Bulk photovoltaic effect in BaTiO3-based ferroelectric oxides: An experimental and theoretical study. <i>Journal of Applied Physics</i> , 2021 , 129, 084106	2.5	4
83	Electric field and mechanical stress driven structural inhomogeneity and compositionally induced relaxor phase transformation in modified BaTiO based lead-free ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 365401	1.8	4
82	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
81	Engineering Resonance Modes for Enhanced Magnetoelectric Coupling in Bilayer Laminate Composites for Energy Harvesting Applications. <i>Physical Review Applied</i> , 2020 , 13,	4.3	12
80	Room-temperature magnetization reversal and magnetocaloric switching in Fe substituted GdMnO3. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
79	Photoferroelectric phenomena in ferroelectric oxides and a Rayleigh analysis. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
78	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
77	The composition and poling-dependent photovoltaic studies in ferroelectric (Bi1\(\text{BSrx} \) (Fe1\(\text{Tix} \) (O3 thin films. Journal of Materials Science: Materials in Electronics, 2020 , 31, 1515-15	23 ^{2.1}	0
76	Polarization driven self-biased and enhanced UV lisible photodetector characteristics of ferroelectric thin film. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 275302	3	12
75	Polarization controlled photovoltaic and self-powered photodetector characteristics in Pb-free ferroelectric thin film. <i>APL Materials</i> , 2019 , 7, 011106	5.7	23
74	Enhanced bulk photovoltaic response in Sn doped BaTiO3 through composition dependent structural transformation. <i>Applied Physics Letters</i> , 2019 , 114, 183901	3.4	16
73	Large photovoltaic response in rare-earth doped BiFeO3 polycrystalline thin films near morphotropic phase boundary composition. <i>Applied Physics Letters</i> , 2019 , 114, 173901	3.4	16
72	Pressure induced phase transformations in diisopropylammonium bromide. <i>Journal of Solid State Chemistry</i> , 2019 , 274, 182-187	3.3	6
71	Large Bulk Photovoltaic Response by Symmetry-Breaking Structural Transformation in Ferroelectric [Ba(Zr0.2Ti0.8)O3]0.5[(Ba0.7Ca0.3)TiO3]0.5. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
70	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

(2016-2019)

69	Large magnetoelectric response in lead free BaTi1\(\mathbb{R}\)SnxO3/NiFe2O4 bilayer laminated composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 6725-6733	2.1	4	
68	Large magnetoelectric coupling in 0.5Ba(Zr0.2Ti0.8)O3 D .5(Ba0.7Ca0.3) TiO3 film on Ni foil. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 065004	3	8	
67	Investigations on the effect of magnetic ordering on dielectric relaxation in polycrystalline GdMn1-Fe O3. <i>Physica B: Condensed Matter</i> , 2019 , 555, 99-105	2.8	6	
66	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	
65	Spin-flop and magnetodielectric reversal in Yb substituted GdMnO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125801	1.8	9	
64	Dipole pinning effect on photovoltaic characteristics of ferroelectric BiFeO3 films. <i>Journal of Applied Physics</i> , 2018 , 123, 024101	2.5	8	
63	Investigations on the defect dipole induced pyroelectric current in multiferroic GdMnO3 system. Journal of Applied Physics, 2018 , 123, 014102	2.5	9	
62	Magnetocaloric effect in (La0.7Sr0.3MnO3)1☑ (BaTiO3) x solid solution spin-glass system. <i>Journal of Materials Science</i> , 2018 , 53, 2405-2412	4.3	2	
61	Giant photovoltaic response in band engineered ferroelectric perovskite. Scientific Reports, 2018, 8, 80	005 4.9	25	
60	Impact of cationic vacancies on the physical characteristics of multiferroic GdMnO3. <i>Journal of Applied Physics</i> , 2018 , 123, 234102	2.5	13	
59	Self-polarization effect on large photovoltaic response in lead free ferroelectric 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 epitaxial film. <i>Applied Physics Letters</i> , 2018 , 113, 233902	3.4	7	
58	Impedance characteristics and PTCR effect in lead free BaTi1-xSnxO3 piezoceramics. <i>Materials Research Bulletin</i> , 2018 , 106, 371-378	5.1	10	
57	Interface Control of Ferroelectricity in an SrRuO /BaTiO /SrRuO Capacitor and its Critical Thickness. <i>Advanced Materials</i> , 2017 , 29, 1602795	24	39	
56	Photovoltaic and photo-capacitance effects in ferroelectric BiFeO3 thin film. <i>Applied Physics Letters</i> , 2017 , 110, 192906	3.4	35	
55	Vibrational spectroscopic and computational studies on diisopropylammonium bromide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017 , 184, 211-219	4.4	7	
54	Tailoring of magnetic orderings in Fe substituted GdMnO bulk samples towards room temperature. Journal of Physics Condensed Matter, 2017 , 29, 405803	1.8	18	
53	Investigating Size- and Temperature-Dependent Coercivity and Saturation Magnetization in PEG Coated Fe3O4 Nanoparticles. <i>Magnetochemistry</i> , 2017 , 3, 19	3.1	38	
52	Spin-glass state in nanoparticulate (La0.7Sr0.3MnO3)1⊠(BaTiO3)x solid solutions: Experimental and density-functional studies. <i>Physical Review B</i> , 2016 , 93,	3.3	14	

51	Study of ferroelectric characteristics of diisopropylammonium bromide films. <i>Journal of Applied Physics</i> , 2016 , 120, 124107	2.5	19
50	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
49	A study of magnetic ordering in multiferroic hexagonal Ho1-xDyxMnO3. <i>Journal of Applied Physics</i> , 2015 , 117, 074104	2.5	5
48	Impedance and magnetoelectric characteristics of (1 lk)BaTiO3 La0.7Sr0.3MnO3 (x = 0.1 and 0.3) nano-composites. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 615-622	2.6	6
47	Ferroelectric ordering and magnetoelectric effect of pristine and Ho-doped orthorhombic DyMnO3 by dielectric studies. <i>Journal of Applied Physics</i> , 2015 , 118, 074102	2.5	11
46	Origin of enhanced magnetization in rare earth doped multiferroic bismuth ferrite. <i>Journal of Applied Physics</i> , 2014 , 115, 073902	2.5	40
45	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
44	Enhanced magnetic properties in low doped La1-xBaxMnO3+[(x=0, 0.1 and 0.2) nanoparticles. Journal of Magnetism and Magnetic Materials, 2014 , 364, 125-128	2.8	12
43	Impedance spectroscopic analysis of the organic ferroelectric Diisopropylammonium bromide (DIPAB). <i>Current Applied Physics</i> , 2014 , 14, 688-690	2.6	10
42	Role of rare earth on the Mn3+ spin reorientation in multiferroic Ho1-xLuxMnO3. <i>Journal of Applied Physics</i> , 2013 , 114, 094102	2.5	1
41	Oxides: Their Properties and Uses 2013 , 47-72		
40	Magnetic, dielectric and magnetodielectric properties of PVDF-La0.7Sr0.3MnO3 polymer nanocomposite film. <i>AIP Advances</i> , 2013 , 3, 112109	1.5	32
39	Magnetoelectric effect in La0.7Sr0.3MnO3 B aTiO3 core⊠hell nanocomposite. <i>Materials Research Bulletin</i> , 2013 , 48, 1308-1311	5.1	20
38	Strong enhancement of magnetoelectric coupling in Dy3+ doped HoMnO3. <i>Applied Physics Letters</i> , 2012 , 101, 022902	3.4	18
37	Study of magnetodielectric effect in hexagonal Ho1NDyxMnO3. <i>Journal of Applied Physics</i> , 2012 , 112, 104116	2.5	11
36	Ferroelectric properties of multiferroic hexagonal ErMnO3 thin films. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 841-845	0.6	4
35	Electronic structures of hexagonal RMnO3 (R=Gd, Tb, Dy, and Ho) thin films: Optical spectroscopy and first-principles calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	71
34	Optical spectroscopic investigation on the coupling of electronic and magnetic structure in multiferroic hexagonal RMnO3 (R=Gd, Tb, Dy, and Ho) thin films. <i>Physical Review B</i> , 2008 , 78,	3.3	38

(2005-2008)

33	Structure and ferroelectric properties of epitaxial (1🛭)BiFeO3🖺BaTiO3solid solution films. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 415208	1.8	10	
32	Publisher's Note: Electronic structures of hexagonal RMnO3 (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	
31	Growth behavior of artificial hexagonal GdMnO3 thin films. Journal of Crystal Growth, 2008, 310, 829-8	35 .6	7	
30	Ferroelectricity driven by Y d0-ness with rehybridization in YMnO3. <i>Physical Review Letters</i> , 2007 , 98, 217601	7.4	105	
29	Multiferroic properties of epitaxially stabilized hexagonal DyMnO3 thin films. <i>Applied Physics Letters</i> , 2007 , 90, 012903	3.4	57	
28	Epitaxial stabilization of artificial hexagonal GdMnO3 thin films and their magnetic properties. <i>Applied Physics Letters</i> , 2007 , 90, 182504	3.4	35	
27	Physical properties of multiferroic hexagonal HoMnO3 thin films. <i>Applied Physics Letters</i> , 2007 , 90, 142	9934	41	
26	Formation of hexagonal phase of TbMnO3 thin film and its multiferroic properties. <i>Journal of Materials Research</i> , 2007 , 22, 2156-2162	2.5	5	
25	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO3 Thin Films. <i>Advanced Materials</i> , 2006 , 18, 3125-3129	24	84	
24	Effect of oxygen pressure on the interface related magnetic and transport properties of La0.7Sr0.3MnO3/BaTiO3superlattices. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 3377-3384	1.8	11	
23	Magnetoelectric effects of nanoparticulate Pb(Zr0.52Ti0.48)O3NiFe2O4 composite films. <i>Applied Physics Letters</i> , 2006 , 89, 102907	3.4	126	
22	The magnetotransport properties of La0.7Sr0.3MnO3BaTiO3 superlattices grown by pulsed laser deposition technique. <i>Journal of Applied Physics</i> , 2006 , 100, 023520	2.5	14	
21	Effect of orbital rotation and mixing on the optical properties of orthorhombic RMnO3 (R=La, Pr, Nd, Gd, and Tb). <i>Physical Review Letters</i> , 2006 , 96, 247205	7.4	42	
20	A Brillouin study of the temperature-dependence of the acoustic modes across the insulator transitions in V2O3 and Cr-doped V2O3. <i>Solid State Communications</i> , 2006 , 138, 466-471	1.6	11	
19	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	
18	The single-phase multiferroic oxides: from bulk to thin film. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, R803-R832	1.8	528	
17	Ferromagnetism and metal-like transport in antiferromagnetic insulator heterostructures. <i>Applied Physics Letters</i> , 2005 , 87, 022506	3.4	3	
16	Growth and Characterization of Epitaxial Barium Titanate and Cobalt Ferrite Composite Film. Journal of the Korean Physical Society, 2005, 47, 345	0.6	7	

15	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
14	Enhanced magnetoresistance in ferromagnetic Pr0.85Ca0.15MnO3Eerroelectric Ba0.6Sr0.4TiO3 superlattice films. <i>Applied Physics Letters</i> , 2004 , 85, 4992-4994	3.4	44
13	Tailoring of ferromagnetic Pr0.85Ca0.15MnO3flerroelectric Ba0.6Sr0.4TiO3 superlattices for multiferroic properties. <i>Applied Physics Letters</i> , 2004 , 85, 4424	3.4	51
12	Origin of the 2leV peak in optical absorption spectra of LaMnO3: an explanation based on the orbitally degenerate Hubbard model. <i>New Journal of Physics</i> , 2004 , 6, 156-156	2.9	40
11	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
10	Origin of metal i hsulator transition temperature enhancement in underdoped lanthanum manganite films. <i>Applied Physics Letters</i> , 2003 , 82, 1908-1910	3.4	76
9	Effects of oxygen annealing on the physical properties and surface microstructures of La0.8Ba0.2MnO3films. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 3166-3170	3	19
8	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
7	A Brillouin scattering study of the quasi-one-dimensional blue bronze, K0.3MoO3. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L225-L231	1.8	2
6	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
5	A study of ferroelectric thin films deposited on a LaNiO3barrier electrode by nebulized spray pyrolysis. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 906-911	3	18
4	Preparation and characterization of sub-micron spherical particles of Al2O3, SiO2 and mullite. <i>Materials Chemistry and Physics</i> , 1998 , 53, 247-251	4.4	9
3	Crystalline alumina films prepared by nebulized spray pyrolysis. <i>Bulletin of Materials Science</i> , 1998 , 21, 107-110	1.7	4
2	Sub-micrometre spherical particles of TiO2,ZrO2 and PZT by nebulized spray pyrolysis ofmetalBrganic precursors. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1433-1438		48
1	Synthesis and role of Nd and Sm on the microwave dielectric properties of BaNd2(1 [] x)Sm2xTi5O14 dielectric resonator. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 48, 202-204	3.1	10