

Menka Jain

List of Publications by Year in descending order

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107
papers

3,320
citations

126907

33
h-index

161849

54
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110
all docs

110
docs citations

110
times ranked

4219
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-property correlations and scaling in the magnetic and magnetocaloric properties of GdCrO ₃ particles. Journal of Physics Condensed Matter, 2021, 33, 205801.	1.8	11
2	Comparison of the dielectric and magnetocaloric properties of bulk and film of GdFe _{0.5} Cr _{0.5} O ₃ . Journal of Applied Physics, 2021, 129, .	2.5	13
3	Spin dynamics and relaxation in 7.6 nm thin film of La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ : ac magnetic susceptibility and magnetic viscosity investigations. Journal of Applied Physics, 2020, 128, 073903.	2.5	6
4	Antiferromagnetic and dielectric behavior in polycrystalline GdFe _{0.5} Cr _{0.5} O ₃ thin film. APL Materials, 2020, 8, 031106.	5.1	9
5	Crystalline Mesoporous Complex Oxides: Porosity- Controlled Electromagnetic Response. Advanced Functional Materials, 2020, 30, 1909491.	14.9	15
6	Lattice Dynamics of Barium Titanate: Single Crystal, Ceramic, and Polycrystalline Film. Physica Status Solidi (B): Basic Research, 2020, 257, 1900762.	1.5	4
7	Graphene and Poly(3,4-ethylene dioxythiophene):Poly(4-styrenesulfonate) on Nonwoven Fabric as a Room Temperature Metal and Its Application as Dry Electrodes for Electrocardiography. ACS Applied Materials & Interfaces, 2019, 11, 32339-32345.	8.0	23
8	Magnetic and tunable dielectric properties of DyCrO ₃ thin films. Journal of Materials Science, 2019, 54, 8984-8994.	3.7	14
9	Effect of Gd substitution on the structural, magnetic, and magnetocaloric properties of HoCrO ₃ . Journal of Applied Physics, 2018, 123, .	2.5	17
10	Enhancement in magnetocaloric properties of ErCrO ₃ via A-site Gd substitution. Journal of Applied Physics, 2018, 123, .	2.5	28
11	Switchable 3-0 magnetoelectric nanocomposite thin film with high coupling. Nanoscale, 2017, 9, 3246-3251.	5.6	20
12	Particle size dependence of the magnetic and magneto-caloric properties of HoCrO ₃ . Journal of Applied Physics, 2017, 121, .	2.5	32
13	Magnetic properties of pure and Fe doped HoCrO ₃ thin films fabricated via a solution route. Journal of Magnetism and Magnetic Materials, 2017, 428, 313-319.	2.3	17
14	Magnetic and magnetocaloric properties of HoCrO_3 tuned by selective rare-earth doping. Physical Review B, 2017, 95, .	3.2	43
15	Enhancement in magnetocaloric properties of holmium chromite by gadolinium substitution. Journal of Applied Physics, 2016, 120, .	2.5	43
16	Negative exchange bias in single-phase DyCrO_3 . Physical Review B, 2016, 94, .	3.2	24
17	Hydroxyapatite substituted by transition metals: experiment and theory. Physical Chemistry Chemical Physics, 2016, 18, 16457-16465.	2.8	91
18	Magnetic and magnetocaloric properties of iron substituted holmium chromite and dysprosium chromite. RSC Advances, 2016, 6, 9475-9483.	3.6	42

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19	Magnetic exchange interactions of rare-earth-substituted DyCrO_3 powders. <i>Physical Review B</i> , 2015, 91, .	3.2	15
20	Magnetocaloric properties of rare-earth substituted DyCrO_3 . <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	35
21	Dopant-mediated structural and magnetic properties of TbMnO_3 . <i>Applied Physics Letters</i> , 2015, 107, .	3.3	18
22	Magnetic and transport properties of epitaxial Fe_3O_4 films grown at different oxygen pressure. <i>Materials Research Express</i> , 2015, 2, 066402.	1.6	2
23	Magnetic and magnetocaloric properties of TbMnO_3 and $\text{Tb}_{0.67}\text{R}_{0.33}\text{MnO}_3$ (R=Dy, Y, and Ho) bulk powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 377, 117-120.	2.3	23
24	Preparation of conductive graphene/graphite infused fabrics using an interface trapping method. <i>Carbon</i> , 2015, 81, 38-42.	10.3	55
25	An intrinsically magnetic biomaterial with tunable magnetic properties. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7176-7185.	5.8	25
26	Effect of Mn Doping on the Properties of Sol-gel Derived $\text{Pb}_{0.3}\text{Sr}_{0.7}\text{TiO}_3$ Thin Films. <i>Ferroelectrics</i> , 2014, 470, 227-233.	0.6	2
27	Raman spectroscopy study of lattice dynamics of macro-, micro-, and nanostructured barium titanates. <i>Physics of the Solid State</i> , 2014, 56, 310-316.	0.6	17
28	Evidence of antiferromagnetic and ferromagnetic superexchange interactions in bulk TbMnCrO_3 . <i>Journal of Physics Condensed Matter</i> , 2014, 26, 046005.	1.8	12
29	Nanocomposite films with magnetic field sensing properties. <i>Journal of Solid State Chemistry</i> , 2014, 214, 12-16.	2.9	3
30	Magnetic ordering in $\text{TbMn}_{0.5}\text{Cr}_{0.5}\text{O}_3$ studied by neutron diffraction and first-principles calculations. <i>Journal of Applied Physics</i> , 2014, 116, 033919.	2.5	15
31	Structural and magnetic properties of multiferroic bulk TbMnO_3 . <i>Materials Chemistry and Physics</i> , 2013, 139, 897-900.	4.0	21
32	Synthesis and characterization of iron-substituted hydroxyapatite via a simple ion-exchange procedure. <i>Journal of Materials Science</i> , 2013, 48, 665-673.	3.7	51
33	Magnetoelectric coupling in solution derived 3-0 type $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3:\text{xCoFe}_2\text{O}_4$ nanocomposite films. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	41
34	Systematic study of magnetotransport properties and enhanced low-field magnetoresistance in thin films of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3 + \text{Mg(O)}$. <i>Applied Physics Letters</i> , 2013, 102, 062416.	3.3	14
35	Magnetic and magnetocaloric properties of bulk dysprosium chromite. <i>Journal of Applied Physics</i> , 2013, 114, 113904.	2.5	85
36	Effects of holmium substitution on multiferroic properties in $\text{Tb}_{0.67}\text{Ho}_{0.33}\text{MnO}_3$. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	25

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37	Magnetic and electronic structure of the film-stabilized Mott insulator BaCrO_3 . Physical Review B, 2013, 87, .	3.2	11
38	Long-range magnetic ordering in bulk TbMnO_3 (M = Ca, Sr). Journal of Physics Condensed Matter, 2013, 25, 296005.	1.8	9
39	Nanocomposites 2013. Journal of Nanotechnology, 2013, 2013, 1-1.	3.4	0
40	Surface contributions to the alternating current and direct current magnetic properties of oleic acid coated CoFe_2O_4 nanoparticles. Journal of Applied Physics, 2012, 112, 123916.	2.5	14
41	Hierarchically Structured Free-Standing Hydrogels with Liquid Crystalline Domains and Magnetic Nanoparticles as Dual Physical Cross-Linkers. Journal of the American Chemical Society, 2012, 134, 1630-1641.	13.7	99
42	Nanocomposites 2012. Journal of Nanotechnology, 2012, 2012, 1-2.	3.4	0
43	Low-field Magnetoresistance in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$:ZnO Composite Film. Advanced Functional Materials, 2012, 22, 3591-3595.	14.9	45
44	Simple and facile approach to synthesize magnetite nanoparticles and assessment of their effects on blood cells. Journal of Magnetism and Magnetic Materials, 2012, 324, 559-563.	2.3	27
45	Magnetic study of the Co-MCM-41 catalyst: Before and after reaction. Journal of Applied Physics, 2011, 110, 103904.	2.5	3
46	Structure and magnetic properties of three-dimensional (La,Sr) MnO_3 nanofilms on ZnO nanorod arrays. Applied Physics Letters, 2011, 98, 123105.	3.3	32
47	Structural and Magnetic Properties of CoFe_2O_4 and $\text{Co}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Nanoparticles for the Magnetolectric Composite Films. Integrated Ferroelectrics, 2011, 131, 102-109.	0.7	18
48	Nanocomposites. Journal of Nanotechnology, 2011, 2011, 1-2.	3.4	5
49	Fabrication of DNA-magnetite hybrid nanofibers for water detoxification. Materials Letters, 2011, 65, 219-221.	2.6	14
50	$\text{Pr}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ electrocatalyst for solid oxide fuel cell cathode introduced via infiltration. Electrochimica Acta, 2011, 56, 9904-9909.	5.2	33
51	Enhanced low-field magnetoresistance in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$:MgO composite films. Journal of Applied Physics, 2011, 110, .	2.5	36
52	Magnetotransport properties of $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ thin films grown by a solution route. Journal of Applied Physics, 2011, 110, 013921.	2.5	10
53	Magnetotransport properties of epitaxial $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ films grown by a solution technique. Journal of Magnetism and Magnetic Materials, 2010, 322, 2708-2711.	2.3	2
54	Recyclable and electrically conducting carbon nanotube composite films. Nanoscale, 2010, 2, 418-422.	5.6	17

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55	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. <i>Advanced Materials</i> , 2009, 21, 3794-3798.	21.0	87
56	Vertical connection of carbon nanotubes to silicon at room temperature using a chemical route. <i>Carbon</i> , 2009, 47, 933-937.	10.3	15
57	Suppression of superconductivity in FeSe films under tensile strain. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	98
58	Composite Carbon Nanotube/Silica Fibers with Improved Mechanical Strengths and Electrical Conductivities. <i>Small</i> , 2008, 4, 1964-1967.	10.0	72
59	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1858-1863.	3.8	20
60	Strong and Ductile Colossal Carbon Tubes with Walls of Rectangular Macropores. <i>Physical Review Letters</i> , 2008, 101, 145501.	7.8	26
61	Rectifying current-voltage characteristics of BiFeO ₃ •Nb-doped SrTiO ₃ heterojunction. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	176
62	Ultrathin epitaxial superconducting niobium nitride films grown by a chemical solution technique. <i>Chemical Communications</i> , 2008, , 6022.	4.1	32
63	Vertically Aligned Pearl-like Carbon Nanotube Arrays for Fiber Spinning. <i>Journal of the American Chemical Society</i> , 2008, 130, 1130-1131.	13.7	84
64	Tunable dielectric properties of lead strontium titanate thin films by sol-gel technique. , 2008, , .		0
65	Leakage mechanisms of self-assembled (BiFeO ₃) _{0.5} :(Sm ₂ O ₃) _{0.5} nanocomposite films. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	64
66	BaTiO ₃ -RELATED FERROELECTRIC THIN FILMS BY POLYMER ASSISTED DEPOSITION. <i>Integrated Ferroelectrics</i> , 2008, 100, 132-139.	0.7	7
67	Temperature-dependent leakage mechanisms of BiFeO ₃ films. , 2008, , .		0
68	Effective thickness and dielectric constant of interfacial layers of Pt•Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ •SrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2007, 90, 232909.	3.3	17
69	High tunability of lead strontium titanate thin films using a conductive LaNiO ₃ as electrodes. <i>Applied Physics Letters</i> , 2007, 91, 072908.	3.3	22
70	Self-Assembled Epitaxial Nanocomposite BaTiO ₃ •NiFe ₂ O ₄ Films Prepared by Polymer-Assisted Deposition. <i>Journal of the American Chemical Society</i> , 2007, 129, 14132-14133.	13.7	54
71	Structural and Ferromagnetic Properties of Epitaxial SrRuO ₃ Thin Films Obtained by Polymer-Assisted Deposition. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7497-7500.	2.6	23
72	Temperature-dependent leakage mechanisms of Pt•BiFeO ₃ •SrRuO ₃ thin film capacitors. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	171

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73	Optical and Structural Properties of Single Phase Epitaxial p-type Transparent Oxide Thin Films. <i>Advanced Materials</i> , 2007, 19, 3604-3607.	21.0	64
74	Ferroic metal-oxide films grown by polymer assisted deposition. <i>Thin Solid Films</i> , 2007, 515, 6411-6415.	1.8	15
75	Manipulating Magnetoresistance Near Room Temperature in La _{0.67} Sr _{0.33} MnO ₃ /La _{0.67} Ca _{0.33} MnO ₃ Films Prepared by Polymer Assisted Deposition. <i>Advanced Materials</i> , 2006, 18, 2695-2698.	21.0	31
76	Magnetoresistance in polymer-assisted deposited Sr- and Ca-doped lanthanum manganite films. <i>Applied Physics Letters</i> , 2006, 88, 2325-10.	3.3	33
77	Effect of conductive LaNiO ₃ electrode on the structural and ferroelectric properties of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ films. <i>Applied Physics Letters</i> , 2006, 89, 2429-03.	3.3	18
78	SYNTHESIS AND CHARACTERIZATION OF LEAD STRONTIUM TITANATE THIN FILMS BY CHEMICAL SOLUTION TECHNIQUE. <i>Integrated Ferroelectrics</i> , 2006, 82, 55-64.	0.7	4
79	Investigations of sol-gel-derived highly (100)-oriented Ba _{0.5} Sr _{0.5} TiO ₃ :MgO composite thin films for phase-shifter applications. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 645-647.	2.3	8
80	Local symmetry breaking in Pb _x Sr _{1-x} TiO ₃ ceramics and composites studied by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2005, 98, 024116.	2.5	28
81	COMPARATIVE STUDIES OF FERROELECTRIC THIN FILMS FOR HIGH FREQUENCY PHASE SHIFTER APPLICATIONS. <i>Integrated Ferroelectrics</i> , 2005, 71, 11-19.	0.7	3
82	Pb _{0.3} Sr _{0.7} TiO ₃ thin films for high-frequency phase shifter applications. <i>Applied Physics Letters</i> , 2004, 85, 275-277.	3.3	52
83	Raman Spectroscopy of Bulk and Thin-Layer (Ba,Sr)TiO ₃ Ferroelectrics. <i>Ferroelectrics</i> , 2004, 303, 101-105.	0.6	23
84	Investigations of Pb _x Sr _{1-x} TiO ₃ Thin Films and Ceramics for Microelectronic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2004, 811, 13.	0.1	2
85	Raman Studies of Pb _x Sr _{1-x} TiO ₃ Ceramics and Composites. <i>Ferroelectrics</i> , 2004, 303, 159-161.	0.6	0
86	Tailoring of BST and MgO Layers for Phase Shifter Applications. <i>Integrated Ferroelectrics</i> , 2004, 60, 59-68.	0.7	9
87	Structural and dielectric properties of heterostructured BST thin films by sol-gel technique. <i>Thin Solid Films</i> , 2004, 447-448, 537-541.	1.8	39
88	Phase transition behavior of highly (100) textured sol-gel-derived Ba _{0.5} Sr _{0.5} TiO ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 789-792.	2.3	8
89	Investigations on solution derived aluminium doped zinc oxide thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 103, 16-25.	3.5	121
90	Dielectric Properties and Leakage Current Characteristics of Sol-Gel Derived (Ba _{0.5} Sr _{0.5})TiO ₃ :MgTiO ₃ Thin Film Composites. <i>Ferroelectrics, Letters Section</i> , 2003, 30, 99-107.	1.0	31

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91	Novel barium strontium titanate Ba _{0.5} Sr _{0.5} TiO ₃ /MgO thin film composites for tunable microwave devices. <i>Materials Letters</i> , 2003, 57, 4232-4236.	2.6	43
92	Improvement in electrical characteristics of graded manganese doped barium strontium titanate thin films. <i>Applied Physics Letters</i> , 2003, 82, 1911-1913.	3.3	112
93	Structural and Electrical Investigations of Ferroelectric Lead Strontium Titanate Thin Films and Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2003, 784, 11151.	0.1	0
94	Evaluation of Chemical Solution Deposited Ba _x Sr _{1-x} TiO ₃ Thin Films on LaAlO ₃ in Tunable Microwave Devices. <i>Integrated Ferroelectrics</i> , 2002, 42, 207-217.	0.7	6
95	Highly Textured Chemical Solution Deposited Ba _{0.5} Sr _{0.5} Ti _{1-x} Mn _x O ₃ (x = 0 to 5 at %) Thin Films For Microwave Dielectric Applications. <i>Integrated Ferroelectrics</i> , 2002, 42, 343-355.	0.7	12
96	Improved Dielectric Properties of Heterostructured Ba _{0.5} Sr _{0.5} TiO ₃ Thin Film Composites for Microwave Dielectric Devices. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	0
97	Structural and Vibrational Properties of Ferroelectric Pb _{1-x} Sr _x TiO ₃ Thin Films and Powders. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	0
98	Raman Spectroscopy of Ferroelectric Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	0
99	Electrical Characteristics of Sol-Gel Derived (100) Oriented Ba _{0.5} Sr _{0.5} TiO ₃ Thin Films on LaAlO ₃ (100) Substrates. <i>Ferroelectrics</i> , 2002, 267, 409-414.	0.6	0
100	Dielectric properties of sol-gel-derived MgO:Ba _{0.5} Sr _{0.5} TiO ₃ thin-film composites. <i>Applied Physics Letters</i> , 2002, 81, 3212-3214.	3.3	72
101	Synthesis and characterization of lead strontium titanate thin films by sol-gel technique. <i>Materials Letters</i> , 2002, 56, 692-697.	2.6	72
102	Investigations on Sol-Gel Derived Ba _{0.5} Sr _{0.5} Ti _{1-x} Mn _x O ₃ (x = 0.0 to 5.0 at%) Thin Films for Phase Shifter Applications. <i>Materials Research Society Symposia Proceedings</i> , 2002, 720, 211.	0.1	3
103	Investigations on the optical properties of sol-gel derived lanthanum doped lead titanate thin films. <i>Thin Solid Films</i> , 2002, 402, 90-98.	1.8	47
104	Sol-gel derived grain oriented barium strontium titanate thin films for phase shifter applications. <i>Journal of Applied Physics</i> , 2001, 90, 896-903.	2.5	93
105	Process Induced Modification of the High Frequency Dielectric Behavior of (100) Textured Ba _x Sr _{1-x} TiO ₃ (x = 0.5 and 0.6) Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2001, 688, 1.	0.1	2
106	Studies on the structural, microstructural and optical properties of sol-gel derived lead lanthanum titanate thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 87, 178-190.	3.5	62
107	Growth and properties of Sr _{1-x} Ba _x Bi ₂ Ta ₂ NbO ₉ materials and thin films. <i>Journal of Materials Science</i> , 2001, 36, 3919-3923.	3.7	3