

# Menka Jain

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3479754/publications.pdf>

Version: 2024-02-01

107  
papers

3,320  
citations

126907

33  
h-index

161849

54  
g-index

110  
all docs

110  
docs citations

110  
times ranked

4219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rectifying current-voltage characteristics of BiFeO <sub>3</sub> •Nb-doped SrTiO <sub>3</sub> heterojunction. Applied Physics Letters, 2008, 92, .	3.3	176
2	Temperature-dependent leakage mechanisms of Pt•BiFeO <sub>3</sub> •SrRuO <sub>3</sub> thin film capacitors. Applied Physics Letters, 2007, 91, .	3.3	171
3	Investigations on solution derived aluminium doped zinc oxide thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 103, 16-25.	3.5	121
4	Improvement in electrical characteristics of graded manganese doped barium strontium titanate thin films. Applied Physics Letters, 2003, 82, 1911-1913.	3.3	112
5	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
6	Suppression of superconductivity in FeSe films under tensile strain. Applied Physics Letters, 2009, 94, .	3.3	98
7	Sol-gel derived grain oriented barium strontium titanate thin films for phase shifter applications. Journal of Applied Physics, 2001, 90, 896-903.	2.5	93
8	Hydroxyapatite substituted by transition metals: experiment and theory. Physical Chemistry Chemical Physics, 2016, 18, 16457-16465.	2.8	91
9	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. Advanced Materials, 2009, 21, 3794-3798.	21.0	87
10	Magnetic and magnetocaloric properties of bulk dysprosium chromite. Journal of Applied Physics, 2013, 114, 113904.	2.5	85
11	Vertically Aligned Pearl-like Carbon Nanotube Arrays for Fiber Spinning. Journal of the American Chemical Society, 2008, 130, 1130-1131.	13.7	84
12	Dielectric properties of sol-gel-derived MgO:Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> thin-film composites. Applied Physics Letters, 2002, 81, 3212-3214.	3.3	72
13	Synthesis and characterization of lead strontium titanate thin films by sol-gel technique. Materials Letters, 2002, 56, 692-697.	2.6	72
14	Composite Carbon Nanotube/Silica Fibers with Improved Mechanical Strengths and Electrical Conductivities. Small, 2008, 4, 1964-1967.	10.0	72
15	Magnetic exchange interactions of rare-earth-substituted $\text{DyCrO}_3$ powders. Physical Review B, 2015, 91, .	3.3	65
16	Optical and Structural Properties of Single Phase Epitaxial p-Type Transparent Oxide Thin Films. Advanced Materials, 2007, 19, 3604-3607.	21.0	64
17	Leakage mechanisms of self-assembled (BiFeO <sub>3</sub> ) <sub>0.5</sub> :(Sm <sub>2</sub> O <sub>3</sub> ) <sub>0.5</sub> nanocomposite films. Applied Physics Letters, 2008, 93, .	3.3	64
18	Studies on the structural, microstructural and optical properties of sol-gel derived lead lanthanum titanate thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 87, 178-190.	3.5	62

#	ARTICLE	IF	CITATIONS
19	Preparation of conductive graphene/graphite infused fabrics using an interface trapping method. Carbon, 2015, 81, 38-42.	10.3	55
20	Self-Assembled Epitaxial Nanocomposite BaTiO <sub>3</sub> ~NiFe <sub>2</sub> O <sub>4</sub> Films Prepared by Polymer-Assisted Deposition. Journal of the American Chemical Society, 2007, 129, 14132-14133.	13.7	54
21	Pb <sub>0.3</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> thin films for high-frequency phase shifter applications. Applied Physics Letters, 2004, 85, 275-277.	3.3	52
22	Synthesis and characterization of iron-substituted hydroxyapatite via a simple ion-exchange procedure. Journal of Materials Science, 2013, 48, 665-673.	3.7	51
23	Investigations on the optical properties of sol-gel derived lanthanum doped lead titanate thin films. Thin Solid Films, 2002, 402, 90-98.	1.8	47
24	Low-Field Magnetoresistance in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> :ZnO Composite Film. Advanced Functional Materials, 2012, 22, 3591-3595.	14.9	45
25	Novel barium strontium titanate Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> /MgO thin film composites for tunable microwave devices. Materials Letters, 2003, 57, 4232-4236.	2.6	43
26	Enhancement in magnetocaloric properties of holmium chromite by gadolinium substitution. Journal of Applied Physics, 2016, 120, .	2.5	43
27	Magnetic and magnetocaloric properties of $\text{HoCrO}_3$ tuned by selective rare-earth doping. Physical Review B, 2017, 95, .	3.2	43
28	Magnetic and magnetocaloric properties of iron substituted holmium chromite and dysprosium chromite. RSC Advances, 2016, 6, 9475-9483.	3.6	42
29	Magnetoelectric coupling in solution derived 3-0 type PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> :xCoFe <sub>2</sub> O <sub>4</sub> nanocomposite films. Applied Physics Letters, 2013, 102, .	3.3	41
30	Structural and dielectric properties of heterostructured BST thin films by sol-gel technique. Thin Solid Films, 2004, 447-448, 537-541.	1.8	39
31	Enhanced low-field magnetoresistance in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> :MgO composite films. Journal of Applied Physics, 2011, 110, .	2.5	36
32	Magnetocaloric properties of rare-earth substituted DyCrO <sub>3</sub> . Journal of Applied Physics, 2015, 118, .	2.5	35
33	Magnetoresistance in polymer-assisted deposited Sr- and Ca-doped lanthanum manganite films. Applied Physics Letters, 2006, 88, 232510.	3.3	33
34	Pr <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> ~ electrocatalyst for solid oxide fuel cell cathode introduced via infiltration. Electrochimica Acta, 2011, 56, 9904-9909.	5.2	33
35	Ultrathin epitaxial superconducting niobium nitride films grown by a chemical solution technique. Chemical Communications, 2008, , 6022.	4.1	32
36	Structure and magnetic properties of three-dimensional (La,Sr)MnO <sub>3</sub> nanofilms on ZnO nanorod arrays. Applied Physics Letters, 2011, 98, 123105.	3.3	32

#	ARTICLE	IF	CITATIONS
37	Particle size dependence of the magnetic and magneto-caloric properties of HoCrO <sub>3</sub> . Journal of Applied Physics, 2017, 121, .	2.5	32
38	Dielectric Properties and Leakage Current Characteristics of Sol-Gel Derived (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )TiO <sub>3</sub> :MgTiO <sub>3</sub> Thin Film Composites. Ferroelectrics, Letters Section, 2003, 30, 99-107.	1.0	31
39	Manipulating Magnetoresistance Near Room Temperature in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> Films Prepared by Polymer Assisted Deposition. Advanced Materials, 2006, 18, 2695-2698.	21.0	31
40	Local symmetry breaking in PbxSr <sub>1-x</sub> TiO <sub>3</sub> ceramics and composites studied by Raman spectroscopy. Journal of Applied Physics, 2005, 98, 024116.	2.5	28
41	Enhancement in magnetocaloric properties of ErCrO <sub>3</sub> via A-site Gd substitution. Journal of Applied Physics, 2018, 123, .	2.5	28
42	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
43	Strong and Ductile Colossal Carbon Tubes with Walls of Rectangular Macropores. Physical Review Letters, 2008, 101, 145501.	7.8	26
44	Effects of holmium substitution on multiferroic properties in Tb <sub>0.67</sub> Ho <sub>0.33</sub> MnO <sub>3</sub> . Applied Physics Letters, 2013, 102, .	3.3	25
45	An intrinsically magnetic biomaterial with tunable magnetic properties. Journal of Materials Chemistry B, 2014, 2, 7176-7185.	5.8	25
46	Negative exchange bias in single-phase $D_{y1}N_xd_{yx}Cr_{1-x}Mn_{1-x}O_3$	3.2	24
47	Raman Spectroscopy of Bulk and Thin-Layer (Ba,Sr)TiO <sub>3</sub> Ferroelectrics. Ferroelectrics, 2004, 303, 101-105.	0.6	23
48	Structural and Ferromagnetic Properties of Epitaxial SrRuO <sub>3</sub> Thin Films Obtained by Polymer-Assisted Deposition. Journal of Physical Chemistry B, 2007, 111, 7497-7500.	2.6	23
49	Magnetic and magnetocaloric properties of TbMnO <sub>3</sub> and Tb <sub>0.67</sub> R <sub>0.33</sub> MnO <sub>3</sub> (R=Dy, Y, and Ho) bulk powders. Journal of Magnetism and Magnetic Materials, 2015, 377, 117-120.	2.3	23
50	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
51	High tunability of lead strontium titanate thin films using a conductive LaNiO <sub>3</sub> as electrodes. Applied Physics Letters, 2007, 91, 072908.	3.3	22
52	Structural and magnetic properties of multiferroic bulk TbMnO <sub>3</sub> . Materials Chemistry and Physics, 2013, 139, 897-900.	4.0	21
53	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. Journal of the American Ceramic Society, 2008, 91, 1858-1863.	3.8	20
54	Switchable 3-0 magnetoelectric nanocomposite thin film with high coupling. Nanoscale, 2017, 9, 3246-3251.	5.6	20

#	ARTICLE	IF	CITATIONS
55	Effect of conductive LaNiO <sub>3</sub> electrode on the structural and ferroelectric properties of Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> films. Applied Physics Letters, 2006, 89, 242903.	3.3	18
56	Structural and Magnetic Properties of CoFe <sub>2</sub> O <sub>4</sub> and Co <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> Nanoparticles for the Magnetoelectric Composite Films. Integrated Ferroelectrics, 2011, 131, 102-109.	0.7	18
57	Dopant-mediated structural and magnetic properties of TbMnO <sub>3</sub> . Applied Physics Letters, 2015, 107, .	3.3	18
58	Effective thickness and dielectric constant of interfacial layers of Pt <sup>+</sup> Bi <sub>3.15</sub> Nd <sub>0.85</sub> Ti <sub>3</sub> O <sub>12</sub> <sup>+</sup> SrRuO <sub>3</sub> capacitors. Applied Physics Letters, 2007, 90, 232909.	3.3	17
59	Recyclable and electrically conducting carbon nanotube composite films. Nanoscale, 2010, 2, 418-422.	5.6	17
60	Raman spectroscopy study of lattice dynamics of macro-, micro-, and nanostructured barium titanates. Physics of the Solid State, 2014, 56, 310-316.	0.6	17
61	Magnetic properties of pure and Fe doped HoCrO <sub>3</sub> thin films fabricated via a solution route. Journal of Magnetism and Magnetic Materials, 2017, 428, 313-319.	2.3	17
62	Effect of Gd substitution on the structural, magnetic, and magnetocaloric properties of HoCrO <sub>3</sub> . Journal of Applied Physics, 2018, 123, .	2.5	17
63	Ferroc metal-oxide films grown by polymer assisted deposition. Thin Solid Films, 2007, 515, 6411-6415.	1.8	15
64	Vertical connection of carbon nanotubes to silicon at room temperature using a chemical route. Carbon, 2009, 47, 933-937.	10.3	15
65	Magnetic ordering in TbMn <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> studied by neutron diffraction and first-principles calculations. Journal of Applied Physics, 2014, 116, 033919.	2.5	15
66	Crystalline Mesoporous Complex Oxides: Porosity <sup>+</sup> Controlled Electromagnetic Response. Advanced Functional Materials, 2020, 30, 1909491.	14.9	15
67	Fabrication of DNA <sup>+</sup> magnetite hybrid nanofibers for water detoxification. Materials Letters, 2011, 65, 219-221.	2.6	14
68	Surface contributions to the alternating current and direct current magnetic properties of oleic acid coated CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Applied Physics, 2012, 112, 123916.	2.5	14
69	Systematic study of magnetotransport properties and enhanced low-field magnetoresistance in thin films of La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> <sup>+</sup> <sub>+</sub> Mg(O). Applied Physics Letters, 2013, 102, 062416.	3.3	14
70	Magnetic and tunable dielectric properties of DyCrO <sub>3</sub> thin films. Journal of Materials Science, 2019, 54, 8984-8994.	3.7	14
71	Comparison of the dielectric and magnetocaloric properties of bulk and film of GdFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> . Journal of Applied Physics, 2021, 129, .	2.5	13
72	Highly Textured Chemical Solution Deposited Ba <sub>0.5</sub> Sr <sub>0.5</sub> Ti <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> (x <sup>+</sup> 0 to 5 at %) Thin Films For Microwave Dielectric Applications. Integrated Ferroelectrics, 2002, 42, 343-355.	0.7	12

#	ARTICLE	IF	CITATIONS
73	Evidence of antiferromagnetic and ferromagnetic superexchange interactions in bulk TbMn <sub>1-x</sub> Cr <sub>x</sub> O <sub>3</sub> . Journal of Physics Condensed Matter, 2014, 26, 046005.	1.8	12
74	Magnetic and electronic structure of the film-stabilized Mott insulator BaCrO <sub>3</sub> . Physical Review B, 2013, 87, .	3.2	11
75	Structure-property correlations and scaling in the magnetic and magnetocaloric properties of GdCrO <sub>3</sub> particles. Journal of Physics Condensed Matter, 2021, 33, 205801.	1.8	11
76	Magnetotransport properties of Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> thin films grown by a solution route. Journal of Applied Physics, 2011, 110, 013921.	2.5	10
77	Tailoring of BST and MgO Layers for Phase Shifter Applications. Integrated Ferroelectrics, 2004, 60, 59-68.	0.7	9
78	Long-range magnetic ordering in bulk Tb <sub>1-x</sub> M <sub>x</sub> MnO <sub>3</sub> (M = Ca, Sr). Journal of Physics Condensed Matter, 2013, 25, 296005.	1.8	9
79	Antiferromagnetic and dielectric behavior in polycrystalline GdFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> thin film. APL Materials, 2020, 8, 031106.	5.1	9
80	Phase transition behavior of highly (100) textured sol-gel-derived Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> thin films. Applied Physics A: Materials Science and Processing, 2003, 77, 789-792.	2.3	8
81	Investigations of sol-gel-derived highly (100)-oriented Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> /MgO composite thin films for phase-shifter applications. Applied Physics A: Materials Science and Processing, 2005, 80, 645-647.	2.3	8
82	BaTiO <sub>3</sub> -RELATED FERROELECTRIC THIN FILMS BY POLYMER ASSISTED DEPOSITION. Integrated Ferroelectrics, 2008, 100, 132-139.	0.7	7
83	Evaluation of Chemical Solution Deposited Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> Thin Films on LaAlO <sub>3</sub> in Tunable Microwave Devices. Integrated Ferroelectrics, 2002, 42, 207-217.	0.7	6
84	Spin dynamics and relaxation in 7.6 nm thin film of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> : ac magnetic susceptibility and magnetic viscosity investigations. Journal of Applied Physics, 2020, 128, 073903.	2.5	6
85	Nanocomposites. Journal of Nanotechnology, 2011, 2011, 1-2.	3.4	5
86	SYNTHESIS AND CHARACTERIZATION OF LEAD STRONTIUM TITANATE THIN FILMS BY CHEMICAL SOLUTION TECHNIQUE. Integrated Ferroelectrics, 2006, 82, 55-64.	0.7	4
87	Lattice Dynamics of Barium Titanate: Single Crystal, Ceramic, and Polycrystalline Film. Physica Status Solidi (B): Basic Research, 2020, 257, 1900762.	1.5	4
88	Growth and properties of Sr <sub>1-x</sub> BaxBi <sub>2</sub> TaNbO <sub>9</sub> materials and thin films. Journal of Materials Science, 2001, 36, 3919-3923.	3.7	3
89	Investigations on Sol-Gel Derived Ba <sub>0.5</sub> Sr <sub>0.5</sub> Ti <sub>1-<math>\hat{r}</math></sub> Mn $\hat{r}$ O <sub>3</sub> ( $\hat{r}$ = 0.0 to 5.0 at%) Thin Films for Phase Shifter Applications. Materials Research Society Symposia Proceedings, 2002, 720, 211.	0.1	3
90	COMPARATIVE STUDIES OF FERROELECTRIC THIN FILMS FOR HIGH FREQUENCY PHASE SHIFTER APPLICATIONS. Integrated Ferroelectrics, 2005, 71, 11-19.	0.7	3

#	ARTICLE	IF	CITATIONS
91	Magnetic study of the Co-MCM-41 catalyst: Before and after reaction. Journal of Applied Physics, 2011, 110, 103904.	2.5	3
92	Nanocomposite films with magnetic field sensing properties. Journal of Solid State Chemistry, 2014, 214, 12-16.	2.9	3
93	Process Induced Modification of the High Frequency Dielectric Behavior of (100) Textured $Ba_xSr_{1-x}TiO_3$ ( $x = 0.5$ and $0.6$ ) Thin Films. Materials Research Society Symposia Proceedings, 2001, 688, 1.	0.1	2
94	Investigations of $Pb_xSr_{1-x}TiO_3$ Thin Films and Ceramics for Microelectronic Applications. Materials Research Society Symposia Proceedings, 2004, 811, 13.	0.1	2
95	Magnetotransport properties of epitaxial $Pr_{0.5}Ca_{0.5}MnO_3$ films grown by a solution technique. Journal of Magnetism and Magnetic Materials, 2010, 322, 2708-2711.	2.3	2
96	Effect of Mn Doping on the Properties of Sol-gel Derived $Pb_{0.3}Sr_{0.7}TiO_3$ Thin Films. Ferroelectrics, 2014, 470, 227-233.	0.6	2
97	Magnetic and transport properties of epitaxial $Fe_3O_4$ films grown at different oxygen pressure. Materials Research Express, 2015, 2, 066402.	1.6	2
98	Improved Dielectric Properties of Heterostructured $Ba_{0.5}Sr_{0.5}TiO_3$ Thin Film Composites for Microwave Dielectric Devices. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
99	Structural and Vibrational Properties of Ferroelectric $Pb_{1-x}Sr_xTiO_3$ Thin Films and Powders. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
100	Raman Spectroscopy of Ferroelectric Thin Films. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
101	Electrical Characteristics of Sol-Gel Derived (100) Oriented $Ba_{0.5}Sr_{0.5}TiO_3$ Thin Films on $LaAlO_3$ (100) Substrates. Ferroelectrics, 2002, 267, 409-414.	0.6	0
102	Structural and Electrical Investigations of Ferroelectric Lead Strontium Titanate Thin Films and Ceramics. Materials Research Society Symposia Proceedings, 2003, 784, 11151.	0.1	0
103	Raman Studies of $Pb_xSr_{1-x}TiO_3$ Ceramics and Composites. Ferroelectrics, 2004, 303, 159-161.	0.6	0
104	Tunable dielectric properties of lead strontium titanate thin films by sol-gel technique. , 2008, , .		0
105	Temperature-dependent leakage mechanisms of $BiFeO_3$ films. , 2008, , .		0
106	Nanocomposites 2012. Journal of Nanotechnology, 2012, 2012, 1-2.	3.4	0
107	Nanocomposites 2013. Journal of Nanotechnology, 2013, 2013, 1-1.	3.4	0