

Sujeet Chaudhary

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190
papers

2,470
citations

25
h-index

37
g-index

218
ext. papers

2,809
ext. citations

3.2
avg, IF

5.28
L-index

#	Paper	IF	Citations
190	First-order transition from antiferromagnetism to ferromagnetism in Ce(Fe _{0.96} Al _{0.04}) ₂ . <i>Physical Review B</i> , 2001 , 64,	3.3	113
189	Spin-polarized tunneling in the half-metallic ferromagnets La _{0.7} HoxSr _{0.3} MnO ₃ (x=0 and 0.15): Experiment and theory. <i>Physical Review B</i> , 1999 , 59, 13919-13926	3.3	113
188	Room temperature ferromagnetism in Mn doped TiO ₂ thin films: Electronic structure and Raman investigations. <i>Journal of Applied Physics</i> , 2011 , 109, 083905	2.5	80
187	High temperature ferromagnetism in Mn-doped SnO ₂ nanocrystalline thin films. <i>Journal of Applied Physics</i> , 2007 , 102, 113513	2.5	71
186	Raman studies of ZnO:Co thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 112-117	1.6	61
185	Growth of Co ₂ FeAl Heusler alloy thin films on Si(100) having very small Gilbert damping by ion beam sputtering. <i>Scientific Reports</i> , 2016 , 6, 28692	4.9	52
184	Interfacial Charge Induced Magnetoelectric Coupling at BiFeO ₃ /BaTiO ₃ Bilayer Interface. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8472-9	9.5	50
183	A comparative study on the structure and properties of nanolayered TiN/NbN and TiAlN/TiN multilayer coatings prepared by reactive direct current magnetron sputtering. <i>Thin Solid Films</i> , 2006 , 503, 158-166	2.2	49
182	On the room-temperature ferromagnetism in (ZnO) _{0.98} (MnO ₂) _{0.02} . <i>Solid State Communications</i> , 2005 , 136, 384-388	1.6	45
181	Growth and characterization of TiAlN/TiAlN superlattices prepared by reactive direct current magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 29-36	2.9	43
180	First-order transition from ferromagnetism to antiferromagnetism in Ce(Fe _{0.96} Al _{0.04}) ₂ : A magnetotransport study. <i>Physical Review B</i> , 2002 , 65,	3.3	38
179	Giant magnetoelectric coupling interaction in BaTiO ₃ /BiFeO ₃ /BaTiO ₃ trilayer multiferroic heterostructures. <i>Applied Physics Letters</i> , 2015 , 107, 082908	3.4	35
178	Anomalous anti-damping in sputtered Pt/Py bilayer system. <i>Scientific Reports</i> , 2016 , 6, 19488	4.9	33
177	High conductivity indium doped ZnO films by metal target reactive co-sputtering. <i>Acta Materialia</i> , 2016 , 111, 1-9	8.4	33
176	Magnetocaloric effect in La _{1-x} SrxCoO ₃ (0.05?x?0.40). <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 202, 47-52	2.8	33
175	In-plane magnetic anisotropy and coercive field dependence upon thickness of CoFeB. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3118-3121	2.8	32
174	Observation of room temperature ferromagnetism in nanocrystalline ZnO : Co system. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4909-4914	3	32

173	DC-magnetisation studies in the $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ ($x=0.4$) system. <i>Journal of Alloys and Compounds</i> , 2001 , 326, 112-116	5.7	32
172	Temperature-dependent Gilbert damping of Co_2FeAl thin films with different degree of atomic order. <i>Physical Review B</i> , 2017 , 96,	3.3	31
171	Highly crystalline p-PbS thin films with tunable optical and hole transport parameters by chemical bath deposition. <i>Acta Materialia</i> , 2017 , 131, 11-21	8.4	30
170	Intrinsic and extrinsic origin of room temperature ferromagnetism in $\text{ZnO}:\text{Co}$ (5at.%). <i>Journal of Applied Physics</i> , 2007 , 101, 103919	2.5	30
169	Hydrogen incorporation induced metal-semiconductor transition in $\text{ZnO}:\text{H}$ thin films sputtered at room temperature. <i>Applied Physics Letters</i> , 2013 , 102, 172106	3.4	29
168	Large spin current generation by the spin Hall effect in mixed crystalline phase Ta thin films. <i>Physical Review B</i> , 2018 , 98,	3.3	28
167	Peak effect in CeRu_2 : History dependence and supercooling. <i>Physical Review B</i> , 2000 , 62, 9191-9199	3.3	27
166	Cobalt substituted ZnO thin films: a potential candidate for spintronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 849-854	2.1	25
165	Enhanced photoelectrochemical response for hydrogen generation in self-assembled aligned ZnO/PbS core/shell nanorod arrays grown by chemical bath deposition. <i>Materials Today Energy</i> , 2017 , 6, 105-114	7	23
164	Thickness-dependent enhancement of damping in $\text{Co}_2\text{FeAl}/\text{Ta}$ thin films. <i>Physical Review B</i> , 2018 , 97,	3.3	23
163	Metamagnetic transition in $\text{Ce}(\text{Fe}_{0.96}\text{Al}_{0.04})_2$: a dc magnetization study. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 4477-4490	1.8	23
162	Magnetic properties of $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ alloys. <i>Physical Review B</i> , 2002 , 65,	3.3	22
161	Thermomagnetic history effects in SmMn_2Ge_2 . <i>Physical Review B</i> , 2002 , 66,	3.3	22
160	Magnetoelectric coupling-induced anisotropy in multiferroic nanocomposite $(1-x)\text{BiFeO}_3-x\text{BaTiO}_3$. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	21
159	High temperature investigation of the magnetization behavior in cobalt substituted ZnO. <i>Journal of Applied Physics</i> , 2007 , 101, 033902	2.5	21
158	Spin pumping in ion-beam sputtered $\text{Co}_2\text{FeAl}/\text{Mo}$ bilayers: Interfacial Gilbert damping. <i>Physical Review B</i> , 2018 , 97,	3.3	19
157	Effect of hydrogen peroxide treatment on the electrical characteristics of Au/ZnO epitaxial Schottky diode. <i>Materials Science in Semiconductor Processing</i> , 2011 , 14, 1-4	4.3	19
156	Electric field assisted sputtering of Fe_3O_4 thin films and reduction in anti-phase boundaries. <i>Journal of Applied Physics</i> , 2012 , 112, 073909	2.5	19

155	Magnetic response of Fe _{1-x} CoxSi alloys: A detailed study of magnetization and magnetoresistance. <i>Physical Review B</i> , 2002 , 66,	3.3	19
154	Temperature dependent charge transport mechanisms in highly crystalline p-PbS cubic nanocrystals grown by chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2018 , 75, 301-310	4.3	19
153	Emergence of spin-orbit torques in 2D transition metal dichalcogenides: A status update. <i>Applied Physics Reviews</i> , 2020 , 7, 041312	17.3	18
152	Interdependence of reversal asymmetry and training effect in Ir ₂₂ Mn ₇₈ /Ni ₈₁ Fe ₁₉ bilayers probed with magnetoresistance. <i>Applied Physics Letters</i> , 2012 , 101, 142408	3.4	18
151	Structure and properties of reactive direct current magnetron sputtered niobium aluminum nitride coatings. <i>Journal of Materials Research</i> , 2008 , 23, 1258-1268	2.5	18
150	Magnetoelectric dipole interaction in RF-magnetron sputtered (1-x) BiFeO ₃ -xBaTiO ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 115-120	5.7	17
149	Magnetic, Electronic Structure And Interface Study Of Fe/MgO/Fe Multilayer. <i>Advanced Materials Letters</i> , 2014 , 5, 372-377	2.4	17
148	Incorporation of MoS ₂ nanosheets in CoSb ₃ matrix as an efficient novel strategy to enhance its thermoelectric performance. <i>Applied Surface Science</i> , 2018 , 435, 1265-1272	6.7	17
147	Large Damping-Like Spin-Orbit Torque in a 2D Conductive 1T-TaS Monolayer. <i>Nano Letters</i> , 2020 , 20, 6372-6380	11.5	17
146	Spin pumping in the Heusler alloy Co ₂ FeAl/MoS ₂ heterostructure: Ferromagnetic resonance experiment and theory. <i>Physical Review B</i> , 2018 , 98,	3.3	17
145	Two magnon scattering and anti-damping behavior in a two-dimensional epitaxial TiN/Py(tPy)/tTa system. <i>RSC Advances</i> , 2017 , 7, 8106-8117	3.7	16
144	Observation of Skyrmions at Room Temperature in CoFeAl Heusler Alloy Ultrathin Film Heterostructures. <i>Scientific Reports</i> , 2019 , 9, 1085	4.9	16
143	Dependence of spin pumping in W/CoFeB heterostructures on the structural phase of tungsten. <i>Physical Review B</i> , 2019 , 99,	3.3	16
142	Reduction in anti-ferromagnetic interactions in ion-beam deposited Fe ₃ O ₄ thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 073901	2.5	16
141	Structural, electronic, and magnetic behavior of two dimensional epitaxial Fe ₃ O ₄ /TiN/Si(100) system. <i>Applied Physics Letters</i> , 2013 , 102, 152406	3.4	16
140	The anomalous mixed state of the C15 Laves phase superconductor : a magnetization study. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 4885-4900	1.8	16
139	Direct observation of unusual interfacial Dzyaloshinskii-Moriya interaction in graphene/NiFe/Ta heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	16
138	Effect of Ru thickness on spin pumping in Ru/Py bilayer. <i>Journal of Applied Physics</i> , 2015 , 117, 17A714	2.5	15

137	Structural and dynamical magnetic response of co-sputtered Co ₂ FeAl heusler alloy thin films grown at different substrate temperatures. <i>Journal of Applied Physics</i> , 2014 , 115, 133916	2.5	15
136	Evidence of electron-phonon and spin-phonon couplings at the Verwey transition in Fe ₃ O ₄ . <i>Physical Review B</i> , 2014 , 90,	3.3	15
135	On the temperature dependence of mobility in hydrogenated indium-doped ZnO thin films. <i>Acta Materialia</i> , 2014 , 77, 125-132	8.4	15
134	Electrodeposition and characterization of Cu/Co multilayers: Effect of individual Co and Cu layers on GMR magnitude and behavior. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 974-978	2.8	15
133	Positive exchange bias in as-deposited ion-beam sputtered IrMn/CoFeB system. <i>Journal of Applied Physics</i> , 2011 , 110, 093916	2.5	15
132	On the superconductivity in in situ synthesized MgB ₂ tapes. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1945-1950	3.9	15
131	Extrinsic nature of the room temperature ferromagnetism in (ZnO) _{1-x} (MnO ₂) _x for. <i>Solid State Communications</i> , 2006 , 140, 23-27	1.6	15
130	The anomalous mixed state of the C15-Laves phase superconductor : II. History dependence in field-cooled magnetization hysteresis. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 8327-8340	1.8	15
129	Effect of 2D MoS ₂ and Graphene interfaces with CoSb ₃ nanoparticles in enhancing thermoelectric properties of 2D MoS ₂ -CoSb ₃ and Graphene-CoSb ₃ nanocomposites. <i>Ceramics International</i> , 2018 , 44, 10628-10634	5.1	14
128	Anomalous Hall effect in ion-beam sputtered Co ₂ FeAl full Heusler alloy thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 442, 288-294	2.8	14
127	Deposition potential controlled structural and thermoelectric behavior of electrodeposited CoSb ₃ thin films. <i>RSC Advances</i> , 2017 , 7, 20336-20344	3.7	13
126	Self-Assembled Vertically Aligned Hetero-Epitaxial ZnO/CdS Core/Shell Array by all CBD Process: Platform for Enhanced Visible-Light-Driven PEC Performance. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14408-14419	3.8	13
125	Antidamping spin-orbit torques in epitaxial-Py(100)/Pt. <i>Applied Physics Letters</i> , 2017 , 111, 232407	3.4	13
124	On the Residual Resistivity Ratio in MgB ₂ Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 26-32	1.8	13
123	Texture Changes in Electrodeposited Cobalt Nanowires with Bath Temperature. <i>Journal of the Electrochemical Society</i> , 2012 , 159, D713-D716	3.9	13
122	Magnetic ordering in Fe _{2-x} Zn _x MoO ₄ (x=0.1) spinel. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 223, 39-49	2.8	13
121	Revisiting the thermoelectric properties of lead telluride. <i>Materials Today Energy</i> , 2021 , 21, 100713	7	13
120	Magnetization reversal studies in structurally tailored cobalt nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 344, 72-78	2.8	12

119	Spin pumping and spin torques in interfacially tailored Co ₂ FeAl/Ta layers. <i>Physical Review B</i> , 2019 , 100,	3.3	12
118	Electronic structure of magnetic Fe/MgO/Fe/Co multilayer structure by NEXAFS spectroscopy. <i>Vacuum</i> , 2017 , 138, 48-54	3.7	11
117	Growth dependent magnetization reversal in Co ₂ MnAl full Heusler alloy thin films. <i>Journal of Applied Physics</i> , 2018 , 123, 053901	2.5	11
116	A study of room-temperature ferromagnetism in transition metal and fluorine-doped spray-pyrolyzed SnO ₂ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 957-962	2.8	11
115	X-ray reflectance studies of interface in ion beam sputtered CoFeB/MgO bilayers. <i>Applied Physics Letters</i> , 2011 , 98, 212506	3.4	11
114	Orbital moment probed spin orbit coupling effects on anisotropy and damping in CoFeB thin films. <i>RSC Advances</i> , 2016 , 6, 94717-94722	3.7	11
113	Comparison of high temperature growth versus post-deposition in situ annealing in attaining very low Gilbert damping in sputtered Co ₂ FeAl Heusler alloy films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 519, 167509	2.8	11
112	Multi-jump magnetization switching in Co ₂ FeAl full Heusler alloy thin films: Experiments and simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 486, 165258	2.8	10
111	X-ray photoelectron spectroscopy and conducting atomic force microscopy investigations on dual ion beam sputtered MgO ultrathin films. <i>Thin Solid Films</i> , 2012 , 520, 6734-6739	2.2	10
110	Investigations of DC-magnetization behavior of nanocrystalline ZnO:Ni. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 419-425	5.7	10
109	Investigation of interface properties of sputter deposited TiN/CrN superlattices by low angle x-ray reflectivity. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 205409	3	10
108	Peak effect in the vortex state of V ₃ Si: a study of history dependence. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 353, 29-37	1.3	10
107	Direct measurement of interfacial Dzyaloshinskii-Moriya interaction at the MoS ₂ /Ni ₈₀ Fe ₂₀ interface. <i>Applied Physics Letters</i> , 2020 , 116, 232405	3.4	9
106	Large Spin Hall Angle in $\bar{1}11$ Thin Films Grown on CoFeB without Oxygen Plasma. <i>Spin</i> , 2018 , 08, 1850018	1.3	9
105	Enhancement of exchange bias and training effect in ion-beam sputtered Fe ₄₆ Mn ₅₄ /Ni ₈₁ Fe ₁₉ bilayers. <i>Journal of Applied Physics</i> , 2014 , 115, 043910	2.5	8
104	Capping Layer (CL) Induced Antidamping in CL/Py/ $\bar{1}11$ System (CL: Al, Ta, Cu, $\bar{1}11$). <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31005-31017	9.5	8
103	Surface scattering dominated magnetotransport for improved quantitative estimation of particle size in Ag _{100-x} Cox nanogranular films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 370, 127-133	2.8	8
102	DC magnetization investigations in Ti _{1-x} MnxO ₂ nanocrystalline powder. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7434-7438	5.7	8

101	Evidence of carrier mediated room temperature ferromagnetism in transparent semiconducting $\text{Sn}_{1-x}\text{Co}_x\text{O}_2$ thin films. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 125208	1.8	8
100	Magnetic annealing of the ion-beam sputtered IrMn/CoFeB bilayers [positive exchange bias and coercivity behaviour. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	7
99	Effect of interface on magnetic properties of $\text{Co}_{20}\text{Fe}_{60}\text{B}_{20}$ in ion-beam sputtered Si/CoFeB/MgO and Si/MgO/CoFeB bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 332, 109-113	2.8	7
98	On the Superconductivity and Mg Outdiffusion in Vacuum-Synthesized MgB_2 Samples. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 2390-2396	1.8	7
97	On the study of phase formation and critical current density in superconducting MgB_2 . <i>Bulletin of Materials Science</i> , 2006 , 29, 207-211	1.7	7
96	Interesting thermomagnetic history effects in the antiferromagnetic state of SmMn_2Ge_2 . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 9779-9784	1.8	7
95	First-order metamagnetic transition in CeFe_2 -based pseudobinary alloys. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 9645-9655	1.8	7
94	Nonequilibrium behaviour in the field-cooled magnetization of the C15 Laves-phase superconductor CeRu_2 . <i>Solid State Communications</i> , 1999 , 109, 427-432	1.6	7
93	Anomalous magnetization in the superconducting mixed state of CeRu_2 : a study with vibrating sample magnetometer. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 322, 115-122	1.3	7
92	Influence of annealing temperature and capping layer on the structural, magnetic and transport properties of ion beam sputtered Co_2FeAl thin films on Si (1 0 0). <i>Applied Surface Science</i> , 2022 , 572, 151423	6.7	7
91	Effect of oxygen partial pressure on the density of antiphase boundaries in Fe_3O_4 thin films on Si(100). <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 448, 303-309	2.8	7
90	Multi-jump magnetic switching in ion-beam sputtered amorphous $\text{Co}_{20}\text{Fe}_{60}\text{B}_{20}$ thin films. <i>Journal of Applied Physics</i> , 2013 , 114, 053911	2.5	6
89	Transition in spin dependent transport from superparamagnetic-superparamagnetic to superparamagnetic-ferromagnetic in sputtered $\text{Cu}_{100-x}\text{Co}_x$ granular films. <i>Journal of Applied Physics</i> , 2012 , 112, 083924	2.5	6
88	Effect of MgO spacer and annealing on interface and magnetic properties of ion beam sputtered NiFe/Mg/MgO/CoFe layer structures. <i>Journal of Applied Physics</i> , 2012 , 112, 063906	2.5	6
87	Tunneling behavior in ion-assist ion-beam sputtered CoFe/MgO/NiFe magnetic tunnel junctions. <i>Materials Research Bulletin</i> , 2012 , 47, 3786-3790	5.1	6
86	Biaxial anisotropy driven asymmetric kinked magnetization reversal in exchange-biased IrMn/NiFe bilayers. <i>Applied Physics Letters</i> , 2013 , 103, 052405	3.4	6
85	Evolution of particle size and interparticle magnetic interactions with thickness in co-sputtered $\text{Cu}_{79}\text{Co}_{21}$ nanogranular thin films. <i>Journal of Applied Physics</i> , 2013 , 114, 023908	2.5	6
84	Influence of strong anisotropy of CoFe layer on the reversal asymmetry and training effect in $\text{Ir}_{22}\text{Mn}_{78}/\text{Co}_{60}\text{Fe}_{40}$ bilayers. <i>Journal of Applied Physics</i> , 2013 , 113, 043914	2.5	6

83	Observation of room temperature ferromagnetism in spray pyrolyzed polycrystalline Ti _{1-x} Co _x O ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 015007	3	6
82	Effect of indium incorporation in Zn _{1-x} Co _x O thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 966-970	2.8	6
81	Investigations of the first order magnetic phase transition in dysprosium. <i>Solid State Communications</i> , 2004 , 132, 293-297	1.6	6
80	History dependence of peak effect in CeRu ₂ and V ₃ Si: an analogy with the random field Ising systems. <i>Solid State Communications</i> , 2000 , 114, 5-8	1.6	6
79	Impact of ferromagnetic layer thickness on the spin pumping in Co ₆₀ Fe ₂₀ B ₂₀ /Ta bilayer thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 12453-12465	2.1	6
78	Spin gapless semiconducting behavior in inverse Heusler Mn ₂ -Co _{1+Al} (0 ≤ x ≤ 0.75) thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 518, 167404	2.8	6
77	Interplay of composition and anisotropy on evolution of microstructural, static and dynamic magnetic properties of CoFeB thin films on annealing. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 728-735	5.7	6
76	Tunable magnetic anisotropy in obliquely sputtered Co ₆₀ Fe ₄₀ thin films on Si(100). <i>Physica B: Condensed Matter</i> , 2019 , 570, 1-5	2.8	5
75	Study of angular dependence of exchange bias and misalignment in uniaxial and unidirectional anisotropy in NiFe(111)/FeMn(111)/CoFeB(amorphous) stack. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 385, 166-174	2.8	5
74	Perpendicular magnetic anisotropy and complex magnetotransport behavior of cobalt nanoparticles in silver matrix. <i>Journal of Applied Physics</i> , 2015 , 117, 17C752	2.5	5
73	Magneto-Resistance Investigations on the In-situ Synthesized Stainless Steel Sheathed MgB ₂ Tapes. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 2375-2381	1.5	5
72	Effect of growth temperature on the electronic transport and anomalous Hall effect response in co-sputtered Co ₂ FeSi thin films. <i>Journal of Applied Physics</i> , 2015 , 118, 193902	2.5	5
71	Magnetization dynamics and interface studies in ion-beam sputtered Si/CoFeB(8)/MgO(4)/CoFeB(8)/Ta(5) structures. <i>Journal of Applied Physics</i> , 2014 , 115, 17D127	2.5	5
70	On the Fluctuation Induced Excess Conductivity in Stainless Steel Sheathed MgB ₂ Tapes. <i>Journal of Materials</i> , 2013 , 2013, 1-6		5
69	Magnetization in MgO based multilayers fabricated by e-beam evaporation 2012 ,		5
68	In-situ growth of superconducting YBa ₂ Cu ₃ O _{7-x} thin films at low oxygen partial pressures. <i>Thin Solid Films</i> , 1997 , 303, 128-135	2.2	5
67	On the blueshift in Sn _{1-x} Co _x O ₂ transparent ferromagnetic semiconductor thin films. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 016216	1.8	5
66	On the anomalous pinning properties of the C15 Laves phase superconductor CeRu ₂ . <i>Superconductor Science and Technology</i> , 1999 , 12, 308-314	3.1	5

65	Large Damping-like Spin-Orbit Torque and Improved Device Performance Utilizing Mixed-Phase Ta. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3139-3146	4	5
64	Interactions controlled evolution of complex magnetoresistance in as-deposited Ag ₁₀₀ Co _x nanogranular films with perpendicular magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 394, 245-252	2.8	4
63	Effect of growth temperature on structural, magnetic, and transport properties of Co ₂ Cr _{0.6} Fe _{0.4} Al Heusler alloy sputtered thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 083911	2.5	4
62	Effect of annealing on the temperature dependence of inelastic tunneling contributions vis-à-vis tunneling magnetoresistance and barrier parameters in CoFe/MgO/NiFe magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2014 , 115, 083904	2.5	4
61	Synthesis and Investigation of Electrodeposited Half-Metallic Fe ₃ O ₄ Thin Films and Nanowires. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 845-849	1.5	4
60	High-Temperature DC-Magnetisation Investigation on Undoped and 5 at.% Cobalt Incorporated TiO ₂ Nanopowders. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 839-843	1.5	4
59	Effects of ambient and humidity exposure on the MgB ₂ superconductor. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 516-520	3.9	4
58	Anomalous peak-effect in CeRu ₂ : effect of disorder. <i>Solid State Communications</i> , 1999 , 111, 263-268	1.6	4
57	Structural and magnetic properties of ion beam sputtered Co ₂ FeAl full Heusler alloy thin films 2016 ,		3
56	Manifestations in the magnetization of the hcp-Co nanowires due to interdependence of aspect ratio and c-axis orientation. <i>Journal of Applied Physics</i> , 2013 , 114, 043909	2.5	3
55	Anisotropic magnetic damping studies in Ta/2D-epitaxial-Py bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 256-262	2.8	3
54	Inelastic tunneling conductance and magnetoresistance investigations in dual ion-beam sputtered CoFeB(110)/MgO/CoFeB (110) magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2014 , 115, 153903	2.5	3
53	Atomic disorder in low pressure rf-sputtered YBCO superconducting thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 280, 37-42	1.3	3
52	STUDIES ON ELECTRODEPOSITED NANOMETRIC Co/Cu MULTILAYERS. <i>International Journal of Nanoscience</i> , 2006 , 05, 505-510	0.6	3
51	Thermomagnetic irreversibility in rare-earth neodymium. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 246, 243-246	2.8	3
50	Peak effect in the superconducting mixed state of bulk Mo-Re alloys: A dc magnetization study. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 1393-1403		3
49	Are history effects common to all peak effects in superconductors?. <i>Solid State Communications</i> , 2000 , 115, 445-448	1.6	3
48	Effect of in situ electric-field-assisted growth on antiphase boundaries in epitaxial Fe ₃ O ₄ thin films on MgO. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3

47	Positive Exchange Bias in Ion-Beam Sputtered IrMn/CoFeB System Grown on CoFe Seed Layer. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 651-655	0.8	3
46	Design, development, and testing of a thermopower measurement system by studying the electron transport properties on indium and nitrogen co-doped sputtered ZnO films. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 117, 49-56	4.6	3
45	Effect of stoichiometry and film thickness on the structural and magnetization dynamics behavior of Co ₂ MnAl thin films cosputtered on Si(1 0 0). <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 552, 169246	2.8	3
44	Anti-phase boundary free two-dimensional epitaxial Fe ₃ O ₄ thin films: evidence of an unquenched orbital magnetic moment at room temperature. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9942-9946	7.1	2
43	Structural and optical properties of nanostructured CdSe thin films prepared by electrochemical deposition 2018 ,		2
42	Chemically Synthesized Ferromagnetic Zn _{1-x} Co _x O Nanocrystals: Raman Investigations. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2009 , 39, 216-220		2
41	High giant magnetoresistance in electrodeposited Cu/Co nano-multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 2453-2460	1.6	2
40	ELECTRODEPOSITED CoNiFe ALLOY THIN FILMS FOR MAGNETIC RECORDING. <i>International Journal of Nanoscience</i> , 2006 , 05, 605-610	0.6	2
39	Anomalous magnetic transition and thermomagnetic irreversibility in polycrystalline neodymium. <i>Solid State Communications</i> , 2002 , 121, 543-548	1.6	2
38	Vortex matter phase transition in the C15-Laves-phase superconductor CeRu ₂ : comparison with Bi-2212. <i>Physica B: Condensed Matter</i> , 2000 , 280, 229-230	2.8	2
37	Orientation-induced crossover in pinning force density and peak effect in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} single crystal. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 311, 122-132	1.3	2
36	Investigation of spin gapless semiconducting behaviour in quaternary CoFeMnSi Heusler alloy thin films on Si (1 0 0). <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 168837	2.8	2
35	Enhancing thermoelectric properties of p-type CoSb ₃ skutterudite by Fe doping. <i>Materials Science in Semiconductor Processing</i> , 2021 , 127, 105721	4.3	2
34	Structural and optical properties of nano-structured CdS thin films prepared by chemical bath deposition 2016 ,		2
33	Influence of the thickness of an antiferromagnetic IrMn layer on the static and dynamic magnetization of weakly coupled CoFeB/IrMn/CoFeB trilayers. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2198-2208	3	2
32	Influence of annealing on spin pumping in sputtered deposited Co/Pt bilayer thin films. <i>Physica B: Condensed Matter</i> , 2019 , 570, 254-258	2.8	1
31	Site-specific growth of oriented ZnO nanocrystal arrays. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 274-280	3	1
30	CdSe thin films prepared by electrochemical deposition: The effect of deposition potential 2020 ,		1

29	Structural and magneto-transport properties of co-sputtered MnAl thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 503, 166654	2.8	1
28	Thickness dependence of magnetic anisotropy and damping in sputter deposited CoFeB thin films 2018 ,		1
27	Magneto-optical properties of CoFeB ultrathin films: Effect of Ta buffer and capping layer 2018 ,		1
26	Zincblende to Wurtzite phase shift of CdSe thin films prepared by electrochemical deposition 2018 ,		1
25	Fluctuation effects and scaling behaviour in C15 Laves-phase superconductor CeRu ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 377, 130-134	1.3	1
24	Study of the oxygen incorporation and structure in the low pressure sputtered YBCO films. <i>Thin Solid Films</i> , 2003 , 433, 114-118	2.2	1
23	DC magnetization studies in Nb/Fe superconducting multilayers. <i>Vacuum</i> , 2001 , 60, 407-410	3.7	1
22			
21	Probing Charge Density Wave Effects in 1T-TaS ₂ Monolayer/Ni ₈₁ Fe ₁₉ Heterostructure: A Spin Dynamics Approach. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3321-3328	4	1
20	Effect of bath temperature on structure, morphology and thermoelectric properties of CoSb ₃ thin films 2016 ,		1
19	Design, fabrication and calibration of low cost thermopower measurement set up in low- to mid-temperature range. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 150, 107054	4.6	1
18	Temperature-Dependent Magnetoresistance in Polycrystalline Ni ₈₁ Fe ₁₉ Thin Film on Si (100). <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 845-850	1.5	1
17	Large exchange bias and spin pumping in ultrathin IrMn/Co system for spintronic device applications. <i>Applied Surface Science</i> , 2022 , 588, 152914	6.7	1
16	Investigation of Magnetic Anisotropy and Damping in Obliquely Sputtered Cobalt Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , ¹	1.5	1
15	Thermal hysteresis across the first-order phase transition in the (Na _{0.5} Bi _{0.5}) _{1-x} Ba _x TiO ₃ dielectric system. <i>Phase Transitions</i> , 2005 , 78, 895-904	1.3	0
14	Observation of uniaxial magnetic anisotropy and out-of-plane coercivity in W/Co ₂₀ Fe ₆₀ B ₂₀ /W structures with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2022 , 895, 162600	5.7	0
13	Thermoelectric properties of Spark plasma sintered PbTe synthesized without any surfactant and organic solvent. <i>Materials Research Express</i> , 2021 , 8, 075004	1.7	0
12	Effect of Bismuth doping and SiC nanodispersion on the Thermoelectric Properties of Solution-Processed PbTe. <i>Journal of Alloys and Compounds</i> , 2022 , 165390	5.7	0

- 11 Magnetic, structural, electronic, and optical investigations of $Ti_{1-x}Mn_xO_2$ films. *Journal of Materials Research*, **2013**, 28, 529-534 2.5
- 10 Room temperature ferromagnetism in Co-incorporated TiO_2 thin films. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2743-6 1.3
- 9 Tailoring the Hysteresis Loop of the Si/Cu(10nm)/FeMn(10-30nm)/CoFeB(10nm) Bilayer System. *Advanced Materials Research*, **2012**, 622-623, 695-699 0.5
- 8 Study of Ageing and Fluctuation Effects in MgB_2 Superconductor. *Materials Research Society Symposia Proceedings*, **2008**, 1099, 4041
- 7 Is Transition Metal Incorporated ZnO an Intrinsic Ferromagnetic Semiconductor?. *Materials Research Society Symposia Proceedings*, **2008**, 1074, 1
- 6 Ferromagnetic Ordering at Room Temperature in ZnO:Co Nanoparticles. *Materials Research Society Symposia Proceedings*, **2006**, 957, 1
- 5 Tin Oxide Based Transparent Ferromagnetic Semiconductor Thin Films by Spray Pyrolysis. *Materials Research Society Symposia Proceedings*, **2006**, 962, 1
- 4 GMR in Excess of 10% at Room Temperature and Low Magnetic Fields in Electrodeposited Cu/Co Nano-Multilayer Structures. *Materials Research Society Symposia Proceedings*, **2006**, 961, 1
- 3 Anomalous ac susceptibility behaviour in ion-irradiated $YBa_2Cu_3O_{7-x}$ epitaxial thin films. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1998**, 77, 1669-1680
- 2 Kosterlitz-Thouless transition and fluctuation effects in $YBa_2Cu_3O_{7-x}$ thin films. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2687-2688 1.3
- 1 Propagation properties of spin wave in Co_2FeAl Heusler alloy ultrathin films. *Materials Research Express*, **2021**, 8, 086101 1.7