

Jing-Sheng Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8707209/jing-sheng-chen-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

349
papers

7,846
citations

47
h-index

70
g-index

381
ext. papers

9,260
ext. citations

5.5
avg, IF

6.14
L-index

#	Paper	IF	Citations
349	Memristor with Ag-Cluster-Doped TiO ₂ Films as Artificial Synapse for Neuroinspired Computing. <i>Advanced Functional Materials</i> , 2018 , 28, 1705320	15.6	221
348	In situ ordering of FePt thin films with face-centered-tetragonal (001) texture on Cr ₁₀₀ Ru _x underlayer at low substrate temperature. <i>Applied Physics Letters</i> , 2002 , 80, 3325-3327	3.4	196
347	Polycrystalline ZnO thin films on Si (100) deposited by filtered cathodic vacuum arc. <i>Journal of Crystal Growth</i> , 2001 , 223, 201-205	1.6	192
346	Bistable resistance switching of poly(N-vinylcarbazole) films for nonvolatile memory applications. <i>Applied Physics Letters</i> , 2005 , 87, 122101	3.4	165
345	Graphene Oxide Quantum Dots Based Memristors with Progressive Conduction Tuning for Artificial Synaptic Learning. <i>Advanced Functional Materials</i> , 2018 , 28, 1803728	15.6	156
344	A novel amperometric biosensor based on ZnO:Co nanoclusters for biosensing glucose. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 135-9	11.8	146
343	Vacancy-Induced Synaptic Behavior in 2D WS Nanosheet-Based Memristor for Low-Power Neuromorphic Computing. <i>Small</i> , 2019 , 15, e1901423	11	142
342	Self-Assembled Networked PbS Distribution Quantum Dots for Resistive Switching and Artificial Synapse Performance Boost of Memristors. <i>Advanced Materials</i> , 2019 , 31, e1805284	24	142
341	Origin of the Two-Dimensional Electron Gas at LaAlO ₃ /SrTiO ₃ Interfaces: The Role of Oxygen Vacancies and Electronic Reconstruction. <i>Physical Review X</i> , 2013 , 3,	9.1	122
340	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 7708-7716	15.6	112
339	Ferroelectric HfO ₂ -based materials for next-generation ferroelectric memories. <i>Journal of Advanced Dielectrics</i> , 2016 , 06, 1630003	1.3	108
338	Molecular-Beam Epitaxy of Two-Dimensional InSe and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. <i>Nano Letters</i> , 2018 , 18, 6340-6346	11.5	100
337	Epitaxial Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films and Their Implementations in Memristors for Brain-Inspired Computing. <i>Advanced Functional Materials</i> , 2018 , 28, 1806037	15.6	98
336	Low temperature deposited L10 FePt (001) films with high coercivity and small grain size. <i>Applied Physics Letters</i> , 2007 , 91, 132506	3.4	88
335	Magnetic anisotropy in the ferromagnetic Cu-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , 2007 , 90, 032509	3.4	87
334	Emergence of Topological Hall Effect in a SrRuO Single Layer. <i>Advanced Materials</i> , 2019 , 31, e1807008	24	85
333	Promotion of L10 ordered phase transformation by the Ag top layer on FePt thin films. <i>Applied Physics Letters</i> , 2003 , 83, 2196-2198	3.4	81

332	Tuning Bifunctional Oxygen Electrocatalysts by Changing the A-Site Rare-Earth Element in Perovskite Nickelates. <i>Advanced Functional Materials</i> , 2018 , 28, 1803712	15.6	78
331	Ni doped ZnO thin films for diluted magnetic semiconductor materials. <i>Current Applied Physics</i> , 2008 , 8, 408-411	2.6	78
330	High coercivity L10 FePt films with perpendicular anisotropy deposited on glass substrate at reduced temperature. <i>Applied Physics Letters</i> , 2007 , 90, 042508	3.4	74
329	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1802439	24	72
328	Metal-containing amorphous carbon films for hydrophobic application. <i>Thin Solid Films</i> , 2001 , 398-399, 110-115	2.2	72
327	Granular L10 FePt:TiO ₂ (001) nanocomposite thin films with 5nm grains for high density magnetic recording. <i>Applied Physics Letters</i> , 2008 , 93, 032506	3.4	70
326	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12862-12869	9.5	69
325	Flexible memristors as electronic synapses for neuro-inspired computation based on scotch tape-exfoliated mica substrates. <i>Nano Research</i> , 2018 , 11, 1183-1192	10	69
324	Zn-interstitial-enhanced ferromagnetism in Cu-doped ZnO films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 315, 107-110	2.8	68
323	Low leakage current Cu(Ti)/SiO ₂ interconnection scheme with a self-formed TiO _x diffusion barrier. <i>Applied Physics Letters</i> , 2002 , 80, 2678-2680	3.4	68
322	Ultrathin BaTiO ₃ -based ferroelectric tunnel junctions through interface engineering. <i>Nano Letters</i> , 2015 , 15, 2568-73	11.5	67
321	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. <i>Advanced Materials</i> , 2017 , 29, 1606165	24	64
320	Current-induced magnetization switching in all-oxide heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 939-944	28.7	64
319	Effect of Pt buffer layer on structural and magnetic properties of FePt thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 1661-1665	2.5	64
318	Control of oxygen octahedral rotations and physical properties in SrRuO ₃ films. <i>Physical Review B</i> , 2013 , 88,	3.3	62
317	Co-sensitized quantum dot solar cell based on ZnO nanowire. <i>Applied Surface Science</i> , 2010 , 256, 7438-7441	6.1	62
316	The Future of Memristors: Materials Engineering and Neural Networks. <i>Advanced Functional Materials</i> , 2021 , 31, 2006773	15.6	62
315	Current status and prospects of memristors based on novel 2D materials. <i>Materials Horizons</i> , 2020 , 7, 1495-1518	14.4	59

314	Structural and mechanical properties of nitrogen ion implanted ultra high molecular weight polyethylene. <i>Surface and Coatings Technology</i> , 2001 , 138, 33-38	4.4	55
313	Ferroic tunnel junctions and their application in neuromorphic networks. <i>Applied Physics Reviews</i> , 2020 , 7, 011304	17.3	54
312	First principles study of the electric field effect on magnetization and magnetic anisotropy of FeCo/MgO(001) thin film. <i>Applied Physics Letters</i> , 2011 , 99, 072503	3.4	52
311	Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. <i>Nature Communications</i> , 2018 , 9, 3319	17.4	50
310	Low-temperature deposition of L10 FePt films for ultra-high density magnetic recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, 309-317	2.8	50
309	Controlling the crystallographic orientation and the axis of magnetic anisotropy in L10 FePt films. <i>Applied Physics Letters</i> , 2002 , 81, 1848-1850	3.4	49
308	Highly improved performance in Zr _{0.5} Hf _{0.5} O ₂ films inserted with graphene oxide quantum dots layer for resistive switching non-volatile memory. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11046-11052	7.1	48
307	Flexible Transparent Organic Artificial Synapse Based on the Tungsten/Egg Albumen/Indium Tin Oxide/Polyethylene Terephthalate Memristor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18654-18661	9.5	48
306	Fabrication and microstructure of high coercivity FePt thin films at 400 °C. <i>Applied Physics Letters</i> , 2006 , 88, 052503	3.4	48
305	Large magnetic moment observed in Co-doped ZnO nanocluster-assembled thin films at room temperature. <i>Applied Physics Letters</i> , 2007 , 90, 152502	3.4	48
304	Functional ferroelectric tunnel junctions on silicon. <i>Scientific Reports</i> , 2015 , 5, 12576	4.9	47
303	Dependence of electrical and optical properties of ZnO films on substrate temperature. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 617-620	4.3	46
302	Ferroelectricity and ferroelectric resistive switching in sputtered Hf _{0.5} Zr _{0.5} O ₂ thin films. <i>Applied Physics Letters</i> , 2016 , 108, 232905	3.4	45
301	Critical Fe thickness for effective coercivity reduction in FePt/Fe exchange-coupled bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 1242-1247	2.8	43
300	Granular L10 FePt _x (X=C, TiO ₂ , Ta ₂ O ₅) (001) nanocomposite films with small grain size for high density magnetic recording. <i>Journal of Applied Physics</i> , 2009 , 105, 07B702	2.5	41
299	Effect of lattice mismatch on chemical ordering of epitaxial L10 FePt films. <i>Journal of Applied Physics</i> , 2005 , 97, 10H303	2.5	41
298	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS Layer. <i>Advanced Materials</i> , 2019 , 31, e1900776	24	40
297	Strain Engineering of Octahedral Rotations and Physical Properties of SrRuO ₃ Films. <i>Scientific Reports</i> , 2015 , 5, 10245	4.9	39

296	Solution-Processed Highly Superparamagnetic and Conductive PEDOT:PSS/FeO Nanocomposite Films with High Transparency and High Mechanical Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19001-19010	9.5	38
295	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019 , 5, eaau6696	14.3	37
294	Effect of ion implantation on surface energy of ultrahigh molecular weight polyethylene. <i>Journal of Applied Physics</i> , 2003 , 93, 5103-5108	2.5	37
293	Continuously controllable photoconductance in freestanding BiFeO ₃ by the macroscopic flexoelectric effect. <i>Nature Communications</i> , 2020 , 11, 2571	17.4	37
292	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12941-12947	9.5	36
291	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. <i>Physical Review B</i> , 2020 , 101,	3.3	36
290	Ferromagnetic Cu-doped AlN nanorods. <i>Nanotechnology</i> , 2007 , 18, 105601	3.4	35
289	Ultraviolet photoluminescence from ferromagnetic Fe-doped AlN nanorods. <i>Applied Physics Letters</i> , 2007 , 90, 193118	3.4	35
288	Development of Ni-4 wt.% Si thermoseeds for hyperthermia cancer treatment. <i>Journal of Biomedical Materials Research Part B</i> , 1988 , 22, 303-19		35
287	Ferroelectricity emerging in strained (111)-textured ZrO ₂ thin films. <i>Applied Physics Letters</i> , 2016 , 108, 012906	3.4	34
286	Controlling Kondo-like Scattering at the SrTiO ₃ -based Interfaces. <i>Scientific Reports</i> , 2016 , 6, 25455	4.9	33
285	Effects of rapid thermal annealing on structural, magnetic and optical properties of Ni-doped ZnO thin films. <i>Current Applied Physics</i> , 2012 , 12, 834-840	2.6	32
284	Ni ₃ NiO core-shell nanoclusters with cubic shape by nanocluster beam deposition. <i>Applied Physics Letters</i> , 2007 , 90, 043111	3.4	32
283	Symmetry-dependent field-free switching of perpendicular magnetization. <i>Nature Nanotechnology</i> , 2021 , 16, 277-282	28.7	32
282	A Pure 2H-MoS ₂ Nanosheet-Based Memristor with Low Power Consumption and Linear Multilevel Storage for Artificial Synapse Emulator. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901342	6.4	31
281	High coercive L10 FePt ₃ (001) nanocomposite films with small grain size for perpendicular recording media. <i>Journal of Applied Physics</i> , 2008 , 103, 07F517	2.5	31
280	Surface energy of amorphous carbon films containing iron. <i>Journal of Applied Physics</i> , 2001 , 89, 7814-7819	19.5	31
279	Ag ₂ S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2751-2759	6.1	30

278	The role of octahedral tilting in the structural phase transition and magnetic anisotropy in SrRuO ₃ thin film. <i>Journal of Applied Physics</i> , 2013 , 113, 063901	2.5	30
277	Designing carbon conductive filament memristor devices for memory and electronic synapse applications. <i>Materials Horizons</i> , 2020 , 7, 1106-1114	14.4	30
276	Optical properties of nanocluster-assembled ZnO thin films by nanocluster-beam deposition. <i>Applied Physics Letters</i> , 2005 , 87, 251912	3.4	29
275	Free Field Electric Switching of Perpendicularly Magnetized Thin Film by Spin Current Gradient. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30446-30452	9.5	28
274	Lattice mismatch-induced evolution of microstructural properties in FePt films. <i>Journal of Applied Physics</i> , 2013 , 113, 233904	2.5	28
273	Grain isolated L10 FePt/a2O5 nanocomposite films with large coercivity for perpendicular recording applications. <i>Journal of Applied Physics</i> , 2009 , 105, 07A730	2.5	28
272	Nanocrystalline Co-ferrite films with high perpendicular coercivity. <i>Applied Physics Letters</i> , 2006 , 88, 162502	2.5	28
271	Magnetic nanobelts of iron-doped zinc oxide. <i>Applied Physics Letters</i> , 2005 , 86, 173110	3.4	28
270	Compositional tailored sol-gel SiO ₂ /TiO ₂ thin films: Crystallization, chemical bonding configuration, and optical properties. <i>Journal of Materials Research</i> , 2005 , 20, 3141-3149	2.5	28
269	Control of magnetization reversal process with pinning layer in FePt thin films. <i>Applied Physics Letters</i> , 2002 , 81, 3612-3614	3.4	28
268	Ultra-low magnetic damping of perovskite La _{0.7} Sr _{0.3} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2017 , 110, 112401	3.4	27
267	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. <i>Nature Communications</i> , 2019 , 10, 3052	17.4	27
266	Ferromagnetic Cu doped ZnO as an electron injector in heterojunction light emitting diodes. <i>Journal of Applied Physics</i> , 2008 , 104, 103104	2.5	27
265	Tailoring Self-Polarization of BaTiO ₃ Thin Films by Interface Engineering and Flexoelectric Effect. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600737	4.6	26
264	Comparison of the characteristics of TiO ₂ films prepared by low-pressure and plasma-enhanced chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2002 , 13, 77-81	2.1	26
263	Bandgap Control of the Oxygen-Vacancy-Induced Two-Dimensional Electron Gas in SrTiO ₃ . <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400155	4.6	25
262	Microstructural and magnetic properties of L10FePt (0 0 1) textured nanocomposite films grown on different intermediate layers. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 205001	3	25
261	Gate Tunable In- and Out-of-Plane Spin-Orbit Coupling and Spin-Splitting Anisotropy at LaAlO ₃ /SrTiO ₃ (110) Interface. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500114	6.4	24

260	Well-isolated L10 FePt/SiNx/C nanocomposite films with large coercivity and small grain size. <i>Journal of Applied Physics</i> , 2012 , 111, 07A308	2.5	24
259	FePt/C graded media for ultra-high density magnetic recording. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 185001	3	24
258	Improvement of chemical ordering of FePt (001) oriented films by MgO buffer layer. <i>Journal of Applied Physics</i> , 2008 , 103, 07E143	2.5	24
257	Magnetic anisotropy and high coercivity of epitaxial Co-ferrite films prepared by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2007 , 101, 09K509	2.5	24
256	Surface modification of ion implanted ultra high molecular weight polyethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 169, 26-30	1.2	24
255	Artificial Visual Perception Nervous System Based on Low-Dimensional Material Photoelectric Memristors. <i>ACS Nano</i> , 2021 ,	16.7	24
254	The thickness, electric field, and strain effects on the magnetic anisotropy of FeCo/MgO(001) thin films: A first principles study. <i>Journal of Applied Physics</i> , 2012 , 111, 07C109	2.5	23
253	0.7BiFeO3-0.3BaTiO3-Y3Fe5O12 composites with simultaneously improved electrical and magnetic properties. <i>Journal of Applied Physics</i> , 2012 , 111, 024104	2.5	22
252	High coercive FePt and FePt-SiNx(001) films with small grain size and narrow opening-up of in-plane hysteresis loop by TiN intermediate layer. <i>Journal of Applied Physics</i> , 2011 , 110, 043911	2.5	22
251	Perpendicular anisotropy L10-FePt based pseudo spin valve with Ag spacer layer. <i>Applied Physics Letters</i> , 2011 , 98, 132501	3.4	22
250	Exchange coupling assisted FePt/C perpendicular recording media. <i>Applied Physics Letters</i> , 2008 , 93, 072504	3.4	22
249	Synthesis and properties of 6FDA-BisAAF-PPD copolyimides for microelectronic applications. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 2064-2069	2.9	22
248	MXene Ti3C2 memristor for neuromorphic behavior and decimal arithmetic operation applications. <i>Nano Energy</i> , 2021 , 79, 105453	17.1	22
247	A carbon-based memristor design for associative learning activities and neuromorphic computing. <i>Nanoscale</i> , 2020 , 12, 13531-13539	7.7	21
246	Room temperature ferroelectricity of hybrid organic/organic perovskites with mixed iodine and bromine. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9665-9676	13	21
245	Hydrothermal epitaxial multiferroic BiFeO3 thick film by addition of the PVA. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 44-48	5.7	21
244	Magnetic anisotropy of FePt: Effect of lattice distortion and chemical disorder. <i>Applied Physics Letters</i> , 2011 , 99, 132501	3.4	21
243	Structural and magnetic properties of FePt film with Cu top layer diffusion. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 284, 423-429	2.8	21

242	Structure and magnetic properties of in-plane oriented FePt/Ag nanocomposites. <i>Journal of Applied Physics</i> , 2003 , 93, 7577-7579	2.5	21
241	Orthorhombic Ti ₂ O ₃ : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , 2018 , 28, 1705657	15.6	21
240	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. <i>Nano Letters</i> , 2016 , 16, 4174-80	11.5	20
239	Observation of superconductivity in structure-selected Ti ₂ O ₃ thin films. <i>NPG Asia Materials</i> , 2018 , 10, 522-532	10.3	20
238	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. <i>Chemistry of Materials</i> , 2018 , 30, 4383-4392	9.6	20
237	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149	17.4	20
236	L10 CoPt/Ta ₂ O ₅ exchange coupled multilayer media for magnetic recording. <i>Applied Physics Letters</i> , 2009 , 94, 232502	3.4	20
235	An Electronic Synapse Based on 2D Ferroelectric CuInP ₂ S ₆ . <i>Advanced Electronic Materials</i> , 2020 , 6, 2000760	7.0	19
234	Effect of oxygen vacancies on the electronic structure and transport properties of SrRuO ₃ thin films. <i>Journal of Applied Physics</i> , 2013 , 113, 17E125	2.5	19
233	Effects of Mn doping on temperature-dependent magnetic properties of L10 FeMnPt. <i>Journal of Applied Physics</i> , 2011 , 109, 07B747	2.5	19
232	Dependence of microstructure and magnetic properties of FePt films on Cr ₉₀ Ru ₁₀ underlayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 285, 443-449	2.8	19
231	Facile patterning of upconversion NaYF ₄ :Yb,Er nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 569-73	9.3	18
230	Structural and magnetic properties of perpendicular FePt thin films with inserted Ag layer. <i>Journal of Applied Physics</i> , 2004 , 95, 7495-7497	2.5	18
229	Structural and magnetic properties of nanostructured FePt/MgO granular films. <i>Thin Solid Films</i> , 2005 , 474, 141-145	2.2	18
228	Deposition of iron containing amorphous carbon films by filtered cathodic vacuum arc technique. <i>Diamond and Related Materials</i> , 2001 , 10, 2018-2023	3.5	18
227	Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e1904415	24	17
226	Control of Microstructure and Magnetic Properties of FePt Films With TiN Intermediate Layer. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 668-674	2	17
225	FePt/TiO ₂ exchange coupled composite media with well-isolated columnar microstructure for high density magnetic recording. <i>Journal of Applied Physics</i> , 2010 , 107, 123915	2.5	17

224	L10 FePt films epitaxially grown on MgO substrates with or without a Cr underlayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e238-e242	2.8	17
223	Structural and tribological properties of hard carbon film synthesized by heat-treatment of a polymer on graphite substrate. <i>Thin Solid Films</i> , 2001 , 389, 161-166	2.2	17
222	Thickness-dependent polarization-induced intrinsic magnetoelectric effects in La _{0.67} Sr _{0.33} MnO ₃ /PbZr _{0.52} Ti _{0.48} O ₃ heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	16
221	Strain modulated anisotropic electronic charge transfer in perovskite Pr _{0.67} Sr _{0.33} MnO ₃ thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	16
220	Where is the Ag in FePt/Ag composite films?. <i>Applied Physics Letters</i> , 2011 , 98, 131914	3.4	16
219	Nanogranular L ₁ ₀ FePt:C Composite Films for Perpendicular Recording. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 2363-2365	2	16
218	Microstructure of FePt nanoparticles produced by nanocluster beam. <i>Journal of Crystal Growth</i> , 2006 , 293, 175-185	1.6	16
217	Coercivity enhancement by Ru pinning layer in FePt thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 7753-7755	1.6	16
216	Field emission from cobalt-containing amorphous carbon composite films heat-treated in an acetylene ambient. <i>Applied Physics Letters</i> , 2000 , 77, 2021-2023	3.4	16
215	Enhancement of ferromagnetism and stability in Cu-doped ZnO by N ₂ O annealing. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 356214	1.8	15
214	Thickness dependence of structural and magnetic properties of FePt films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 271, 159-164	2.8	15
213	Structural and magnetic properties of FePt films grown on Cr _{1-x} Mox underlayers. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1485-1490	2.6	15
212	Direct ordering and shape effects of FePt nanoparticles produced by nanoparticle beam technology. <i>Journal of Applied Physics</i> , 2005 , 98, 064306	2.5	15
211	Field emission properties and surface structure of nickel containing amorphous carbon. <i>Applied Surface Science</i> , 2001 , 180, 185-190	6.7	15
210	Highly chemical ordered L ₁₁ CoPt (111) films with perpendicular anisotropy grown on glass substrates. <i>Journal of Applied Physics</i> , 2011 , 109, 07B744	2.5	14
209	Development of L ₁ ₀ FePt:C (001) Thin Films With High Coercivity and Small Grain Size for Ultra-High-Density Magnetic Recording Media. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 839-844	2	14
208	Effects of CrRuBiOx underlayer with MgO intermediate layer on the microstructure and magnetic properties of FePt thin film. <i>Journal of Applied Physics</i> , 2011 , 109, 07A736	2.5	14
207	High-coercivity SmCo ₅ thin films deposited on glass substrates. <i>Journal of Applied Physics</i> , 2008 , 103, 113908	2.5	14

206	Thickness dependence of structural and magnetic properties of FePt films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 271, 431-436	2.8	14
205	Evolution of chemical bonding configuration in ultrathin SiOxNy layers grown by low-temperature plasma nitridation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, 772-778	2.9	14
204	Effect of NiAl intermediate layer on structural and magnetic properties of L10 FePt films with perpendicular anisotropy. <i>Journal of Applied Physics</i> , 2003 , 93, 8167-8169	2.5	14
203	Field emission from metal-containing amorphous carbon composite films. <i>Diamond and Related Materials</i> , 2001 , 10, 1727-1731	3.5	14
202	Effect of TiON/MgO intermediate layer on microstructure and magnetic properties of L10 FePt/C/SiO2 films. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 417, 203-207	2.8	14
201	Nanogranular TiN-ZrO2 intermediate layer induced improvement of isolation and grain size of FePt thin films. <i>Scientific Reports</i> , 2014 , 4, 5607	4.9	13
200	Artificial two-dimensional polar metal by charge transfer to a ferroelectric insulator. <i>Communications Physics</i> , 2019 , 2,	5.4	13
199	L10 FePt-ZrO2 (001) nanostructured films with high aspect ratio columnar grains. <i>Applied Physics Letters</i> , 2014 , 104, 192404	3.4	13
198	Magnetization reversal and magnetoresistance behavior of perpendicularly magnetized [Co/Pd]4/Au/[Co/Pd]2 nanowires. <i>Journal of Applied Physics</i> , 2012 , 112, 073902	2.5	13
197	Compositional Effects on the Structure and Phase Transition of Epitaxial FeRh Thin Films. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4033-4036	2	13
196	Directional short range order in L10 FeMnPt magnetic thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	13
195	Compositional dependence of magnetic properties of CoPt thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 054909	2.5	13
194	The effect of additive Ag layers on the L10 FePt phase transformation. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 282, 105-108	2.8	13
193	Epitaxial L10 FePt films on SrTiO3 (100) by sputtering. <i>Journal of Crystal Growth</i> , 2005 , 276, 111-115	1.6	13
192	Effect of ultrahigh vacuum on ordering temperature, crystallographic and magnetic properties of L10 FePt (001) film on a CrRu underlayer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 184-189	2.9	13
191	FABRICATION OF CARBON NANOTUBE FILM ARRAYS FOR FIELD EMISSION FLAT PANEL DISPLAY APPLICATION. <i>Surface Review and Letters</i> , 2001 , 08, 505-508	1.1	13
190	Binary Controls on Interfacial Magnetism in Manganite Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1801766	15.6	13
189	Effect of Extrinsicly Introduced Passive Interface Layer on the Performance of Ferroelectric Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5050-5055	9.5	12

188	Memristors based on multilayer graphene electrodes for implementing a low-power neuromorphic electronic synapse. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4926-4933	7.1	12
187	Nanocomposite L10 FePt/BiN _x and FePt/BiN _x /TiN films with large coercivity and small grain size on a TiN intermediate layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2637-2644	2.8	12
186	Highly textured SmCo ₅ (001) thin film with high coercivity. <i>Journal of Applied Physics</i> , 2008 , 104, 093905	2.5	12
185	High perpendicular coercivity co-ferrite films with (111) texture using pulsed laser deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2537-2539	2.8	12
184	Effects of substrate bias and nitrogen flow ratio on the resistivity and crystal structure of reactively sputtered ZrN _x films at elevated temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 651-658	2.9	12
183	Microstructure and magnetic properties of rapidly annealed FePt (001) and FePt/MgO (001) films. <i>Journal of Applied Physics</i> , 2005 , 97, 10N108	2.5	12
182	Nucleation and growth of diamond on silicon substrate coated with polymer. <i>Thin Solid Films</i> , 1999 , 346, 120-124	2.2	12
181	Magnetization reversal and magnetoresistance behavior of exchange coupled SrRuO ₃ bilayer. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 215002	3	11
180	Topological Hall effect in ferrimagnetic CoTb single layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 487, 165316	2.8	11
179	Crystalline ZrO ₂ doping induced columnar structural FePt films with larger coercivity and high aspect ratio. <i>Journal of Applied Physics</i> , 2015 , 117, 17D116	2.5	11
178	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , 2020 , 101,	3.3	11
177	Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction at an Oxide/Ferromagnetic Metal Interface. <i>Physical Review Letters</i> , 2020 , 124, 217202	7.4	11
176	Large lattice mismatch effects on the epitaxial growth and magnetic properties of FePt films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 446, 125-134	2.8	11
175	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar BaTiO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2016 , 94,	3.3	11
174	Deposition temperature induced magnetic anisotropy variation in FePt-C soft/hard multilayer films. <i>Journal of Applied Physics</i> , 2011 , 109, 063910	2.5	11
173	Interlayer magnetic coupling in perpendicular anisotropy L10-FePt based pseudo spin valve. <i>Applied Physics Letters</i> , 2011 , 98, 252503	3.4	11
172	Synthesis of diamond from polymer seeded with nanometer-sized diamond particles. <i>Journal of Crystal Growth</i> , 1997 , 181, 308-313	1.6	11
171	Effects of Ru underlayer on microstructures and magnetic properties of Co ₇₂ Pt ₂₈ thin films. <i>Journal of Applied Physics</i> , 2008 , 104, 073904	2.5	11

170	High coercivity Co-ferrite thin films on SiO ₂ /sub 2/ (100) substrate prepared by sputtering and PLD. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3904-3906	2	11
169	Improvement of recording performance in FePt perpendicular media by Ag pinning layer. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3196-3198	2	11
168	Spin-orbit torque in chemically disordered and L11-ordered Cu _{100-x} Ptx. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
167	An Overview of Ferroelectric Hafnia and Epitaxial Growth. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100025	2.5	11
166	Hf _{0.5} Zr _{0.5} O ₂ -based ferroelectric memristor with multilevel storage potential and artificial synaptic plasticity. <i>Science China Materials</i> , 2021 , 64, 727-738	7.1	11
165	Characteristic investigation of a flexible resistive memory based on a tunneling junction of Pd/BTO/LSMO on mica substrate. <i>Applied Physics Letters</i> , 2018 , 113, 223501	3.4	11
164	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. <i>Nano Letters</i> , 2019 , 19, 3057-3065	3.5	10
163	A Boolean OR gate implemented with an optoelectronic switching memristor. <i>Applied Physics Letters</i> , 2019 , 115, 153504	3.4	10
162	Observation of Room Ferromagnetism in Cu-Implanted Crystal ZnO. <i>Chinese Physics Letters</i> , 2010 , 27, 087501	1.8	10
161	(001) textured L10-FePt pseudo spin valve with TiN spacer. <i>Applied Physics Letters</i> , 2011 , 99, 252503	3.4	10
160	A review of L10 FePt films for high-density magnetic recording. <i>International Journal of Product Development</i> , 2008 , 5, 238	0.7	10
159	Interfacial Effects of MgO Buffer Layer on Perpendicular Anisotropy of L1 ₀ FePt Films. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3017-3019	2	10
158	Spin and Orbital Magnetic Moments of FePt Thin Films. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2539-2541	1.4	10
157	Magnetic properties of Co-ferrite thin films prepared by PLD with in situ heating and post-annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e387-e391	2.8	10
156	Crystallography ordering studies of the L10 phase transformation of FePt thin film with Ag top layer. <i>Journal of Applied Physics</i> , 2004 , 95, 7154-7156	2.5	10
155	Deposition of permalloy films by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2003 , 443, 115-119	2.2	10
154	Enhanced Magnetic Anisotropy and Orbital Symmetry Breaking in Manganite Heterostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 1909536	15.6	10
153	Prospect of Spintronics in Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100465	6.4	10

152	Spin-Orbit Torque-Induced Domain Nucleation for Neuromorphic Computing. <i>Advanced Materials</i> , 2021 , 33, e2103672	24	10
151	Effects of strain relaxation in Pr _{0.67} Sr _{0.33} MnO ₃ films probed by polarization dependent X-ray absorption near edge structure. <i>Scientific Reports</i> , 2016 , 6, 19886	4.9	10
150	Interlayer coupling and switching field of exchange coupled media. <i>Journal of Applied Physics</i> , 2009 , 105, 07B733	2.5	9
149	Seed layer effect on texture and magnetic properties of SmCo ₅ thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 07A743	2.5	9
148	L_1 Phase CoPt-TiO ₂ /FePt-TiO ₂ Exchange Coupled Media With Small Switching Field. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1955-1958	2	9
147	Thermal effects of heated magnetic disk on the slider in heat-assisted magnetic recording. <i>Journal of Applied Physics</i> , 2006 , 99, 08N102	2.5	9
146	Ferromagnetic copper-doped ZnO deposited on plastic substrates. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 236214	1.8	9
145	Magnetic nanobraids of iron-doped amorphous silica. <i>Applied Physics Letters</i> , 2004 , 85, 5364-5366	3.4	9
144	The mechanism of Ag top layer on the coercivity enhancement of FePt thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 10H502	2.5	9
143	Phase transformation of diamond films during electron field emission. <i>Applied Surface Science</i> , 2001 , 173, 282-289	6.7	9
142	Oriented carbon microfibers grown by catalytic decomposition of acetylene and their field emission properties. <i>Diamond and Related Materials</i> , 2001 , 10, 878-882	3.5	9
141	Field emission from polymer-converted carbon films by ultraviolet radiation. <i>Applied Physics Letters</i> , 2001 , 78, 2009-2011	3.4	9
140	A Flexible Transient Biomemristor Based on Hybrid Structure HfO ₂ /BSA: Au Double Layers. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000191	6.8	9
139	Effects of field annealing on Gilbert damping of polycrystalline CoFe thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 441, 264-270	2.8	8
138	Lattice-Mismatch-Induced Oscillatory Feature Size and Its Impact on the Physical Limitation of Grain Size. <i>Physical Review Applied</i> , 2018 , 9,	4.3	8
137	Seedlayer interface enhanced magnetic anisotropy in CoPt (0 0 0 2)-textured films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3236-3240	2.8	8
136	Crystallographic orientation control in L1 ₀ FePt films on CrRu underlayer. <i>Surface and Coatings Technology</i> , 2005 , 198, 296-299	4.4	8
135	Field-free magnetization switching induced by the unconventional spin-orbit torque from WTe ₂ . <i>APL Materials</i> , 2021 , 9, 051114	5.7	8

134	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. <i>Npj Quantum Materials</i> , 2021 , 6,	5	8
133	Study of perpendicular anisotropy L10-FePt pseudo spin valves using a micromagnetic trilayer model. <i>Journal of Applied Physics</i> , 2015 , 117, 213901	2.5	7
132	Tuning of current-induced effective magnetic field through Rashba effect engineering in hybrid multiferroic structures. <i>NPG Asia Materials</i> , 2018 , 10, 740-748	10.3	7
131	Large enhancement of magnetic moment in L10 ordered FePt thin films by Nd substitutional doping. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 255001	3	7
130	First principles study of magnetic anisotropy and magnetoelectric effect of FePd/MgO(001) ultrathin films. <i>Journal of Applied Physics</i> , 2013 , 113, 17C702	2.5	7
129	Highly (001)-Textured L10FePt/BiO ₂ Films with Well-Isolated Small Grains Using TiON Intermediate Layer. <i>Applied Physics Express</i> , 2013 , 6, 075502	2.4	7
128	Annealing effect on the FePt/Fe exchange-coupled granular bilayer. <i>Journal of Applied Physics</i> , 2013 , 114, 173903	2.5	7
127	Crystallographic origin of perpendicular magnetic anisotropy in CoPt film: polarized x-ray absorption study. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 185007	3	7
126	Microstructural evolution and magnetization reversal mechanism of CoPt films with perpendicular magnetic anisotropy. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015009	3	7
125	FePt Patterned Media Fabricated by Deep UV Lithography Followed by Sputtering or PLD. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2157-2159	2	7
124	Magnetic properties and microstructure of FePt/BiO ₂ nanocomposite films fabricated by nanocluster beam technology. <i>Thin Solid Films</i> , 2006 , 510, 286-291	2.2	7
123	Dependence of Cu/Ta/N Ta Metallization Stability on the Characteristics of Low Dielectric Constant Materials. <i>Journal of the Electrochemical Society</i> , 2005 , 152, G517	3.9	7
122	Structure, magnetic and thermal properties of FePt/CBN granular films for heat assisted magnetic recording. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 135002	3	7
121	Spin Glass State in Chemical Vapor-Deposited Crystalline Cr ₂ Se ₃ Nanosheets. <i>Chemistry of Materials</i> , 2021 , 33, 3851-3858	9.6	7
120	Modulation of Spin-Orbit Torque from SrRuO ₃ by Epitaxial-Strain-Induced Octahedral Rotation. <i>Advanced Materials</i> , 2021 , 33, e2007114	24	7
119	Tunneling electroresistance effect in ultrathin BiFeO ₃ -based ferroelectric tunneling junctions. <i>Applied Physics Letters</i> , 2016 , 109, 242901	3.4	7
118	Domain configurations in Co/Pd and L10-FePt nanowire arrays with perpendicular magnetic anisotropy. <i>Nanoscale</i> , 2016 , 8, 5358-67	7.7	7
117	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La _{0.67} Sr _{0.33} MnO ₃) _n /(SrTiO ₃) _n superlattice. <i>NPG Asia Materials</i> , 2018 , 10, 931-942	10.3	7

116	Columnar structured FePt films epitaxially grown on large lattice mismatched intermediate layer. <i>Scientific Reports</i> , 2016 , 6, 34637	4.9	6
115	Large vertical hysteretic shift and signature of exchange bias in BiFeO ₃ /SrRuO ₃ heterostructure. <i>Ceramics International</i> , 2019 , 45, 20465-20469	5.1	6
114	Microstructures and Magnetic Properties of FePt Thin Films on TiON Intermediate Layer. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 89-95	2	6
113	Effect of Nb and Ta substitution on donor electron transport and ultrafast carrier dynamics in anatase TiO ₂ thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6329-6333	7.1	6
112	Tuning the Curie temperature of L10 ordered FePt thin films through site-specific substitution of Rh. <i>Journal of Applied Physics</i> , 2014 , 116, 143902	2.5	6
111	Synthesis of PbS nanocrystals from sulfuramine solutions at room temperature. <i>RSC Advances</i> , 2011 , 1, 817	3.7	6
110	Chemical ordering and magnetic properties of L10 CoPtSiO ₂ nanocomposite. <i>Journal of Applied Physics</i> , 2009 , 105, 07B709	2.5	6
109	Structure and magnetic properties of L10 FePt film with Ag heat sink layer. <i>Journal of Applied Physics</i> , 2009 , 105, 07B724	2.5	6
108	A study on magnetic properties and structure of SmCo ₅ thin films on NiW underlayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3737-3741	2.8	6
107	Annealing temperature dependence of ferromagnetism of rutile CoTiO ₂ (100). <i>Applied Physics Letters</i> , 2005 , 86, 222505	3.4	6
106	High coercivity FePt thin films with Ag intermediate Layers deposited at 400/spl deg/C. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3337-3339	2	6
105	A Multifunctional and Efficient Artificial Visual Perception Nervous System with Sb ₂ Se ₃ /CdS-Core/Shell (SC) Nanorod Arrays Optoelectronic Memristor. <i>Advanced Functional Materials</i> , 2020 , 34, 2203454	15.6	6
104	Electric-field-induced strain effects on the magnetization of a Pr _{0.67} Sr _{0.33} MnO ₃ film. <i>Physical Review B</i> , 2015 , 91,	3.3	5
103	Unusual Hole and Electron Midgap States and Orbital Reconstructions Induced Huge Ferroelectric Tunneling Electroresistance in BaTiO ₃ /SrTiO ₃ . <i>Nano Letters</i> , 2020 , 20, 1101-1109	11.5	5
102	Temperature controlled evolution of monoclinic to super-tetragonal phase of epitaxial BiFeO ₃ thin films on La _{0.67} Sr _{0.33} MnO ₃ buffered SrTiO ₃ substrate. <i>AIP Advances</i> , 2018 , 8, 035221	1.5	5
101	Magnetic properties of L10-FePt/Fe exchange-coupled composite nanodots. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 245001	3	5
100	Temperature dependent electronic structure of Pr _{0.67} Sr _{0.33} MnO ₃ film probed by X-ray absorption near edge structure. <i>Journal of Applied Physics</i> , 2014 , 115, 17E116	2.5	5
99	Synthesis of BiFeO ₃ nanoparticles with small size. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 64, 104-109	2.3	5

98	The magnetic properties and microscopic structural of a ferromagnetic semiconductor: Rutile TiO ₂ single crystals implanted with cobalt ions. <i>Surface and Coatings Technology</i> , 2013 , 229, 109-111	4.4	5
97	A simple approach to sub-100 nm resist nanopatterns with a high aspect ratio. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 035038	2	5
96	Nanostructured SmCo ₅ thin films with perpendicular anisotropy formed in a wide range of Sm-Co compositions. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2644-7	1.3	5
95	Magnetic Properties of Cu Nanoclusters Embedded in ZnO Thin Films. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4003-4006	2	5
94	Effect of carbon additive on microstructure evolution and magnetic properties of epitaxial FePt (001) thin films. <i>Thin Solid Films</i> , 2009 , 517, 2638-2647	2.2	5
93	Microstructure and magnetic properties studies of SmCo ₅ thin films grown on MgO and glass substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2643-2647	2.8	5
92	A simple method to prepare highly ordered PS-b-P4VP block copolymer template. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 373, 82-87	5.1	5
91	Effects of spacer thickness on perpendicular anisotropy L10-FePt/TiN/L10-FePt pseudo spin valves. <i>Journal of Applied Physics</i> , 2012 , 111, 083909	2.5	5
90	Nanocomposite magnetic films for high-density perpendicular magnetic recording media. <i>Thin Solid Films</i> , 2008 , 516, 5381-5385	2.2	5
89	Underlayer diffusion-induced enhancement of coercivity in high anisotropy FePt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 3068-3070	2.8	5
88	Microstructure and direct ordering of FePt nanoparticles produced by nanocluster beam technology. <i>Nanotechnology</i> , 2007 , 18, 435604	3.4	5
87	Reduction of exchange coupling and enhancement of coercivity of L10 FePt(001) films by Cu top layer diffusion. <i>Thin Solid Films</i> , 2006 , 505, 81-84	2.2	5
86	Controlling the crystallographic orientation and easy axis of magnetic anisotropy in L10 FePt films with Cu additive. <i>Surface and Coatings Technology</i> , 2005 , 198, 270-273	4.4	5
85	Annealing effects on field emission properties of tetrahedral amorphous carbon films. <i>Applied Surface Science</i> , 2001 , 174, 283-288	6.7	5
84	Memristors Based on the Hybrid Structure of Oxide and Boron Nitride Nanosheets Combining Memristive and Neuromorphic Functionalities. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900539	2.5	5
83	Spin-Orbit Torque Switching of a High-Quality Perpendicularly Magnetized Ferrimagnetic Heusler MnGe Film. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18294-18300	9.5	5
82	Photo-enhanced Seebeck effect of a highly conductive thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16725-16732	13	5
81	Magnetoelectric Coupling Induced Orbital Reconstruction and Ferromagnetic Insulating State in PbZrTiO ₃ /LaSrMnO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35588-35597	9.5	4

80	Ferromagnetic alloy material CoFeC with high thermal tolerance in MgO/CoFeC/Pt structure and comparable intrinsic damping factor with CoFeB. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 055006	3	4
79	Columnar structural FePt films with good perpendicular anisotropy induced by tuning the crystal structure of doping materials. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 234-241	5.7	4
78	Spatiotemporally separating electron and phonon thermal transport in L10 FePt films for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , 2014 , 115, 243907	2.5	4
77	Investigation of composition-induced strain effect in FePt _{1-x} films grown on different substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 347, 165-170	2.8	4
76	Control of perpendicular magnetic anisotropy and spin pumping damping in MgO/CoFeB/ Ta/Pt structures. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 355001	3	4
75	Static and dynamic magnetic properties of FeMn/Pt multilayers. <i>Journal of Applied Physics</i> , 2017 , 121, 223901	2.5	4
74	Oxygen vacancy-induced room-temperature ferromagnetism in DD neutron irradiated single-crystal TiO ₂ (001) rutile. <i>Chinese Physics B</i> , 2014 , 23, 106101	1.2	4
73	The structural, magnetic, and optical properties of ZnO (0001) wafers implanted with Co ions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1819-1822	3.6	4
72	Optical and ferromagnetic characteristics of Mn doped ZnO thin films grown by filtered cathodic vacuum arc technique. <i>Thin Solid Films</i> , 2010 , 518, 7048-7052	2.2	4
71	EFFECT OF SURFACE PROPERTIES ON THE WETTABILITY OF IRON CONTAINING AMORPHOUS CARBON FILMS. <i>International Journal of Modern Physics B</i> , 2002 , 16, 1031-1037	1.1	4
70	Alloy electrode engineering in memristors for emulating the biological synapse.. <i>Nanoscale</i> , 2022 ,	7.7	4
69	Role of Interfacial Orbital Hybridization in Spin-Orbit-Torque Generation in Pt-Based Heterostructures. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
68	Ferroelectric Self-Polarization Controlled Magnetic Stratification and Magnetic Coupling in Ultrathin LaSrMnO Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30137-30145	9.5	4
67	Piezoelectric control of resistance switching in VO ₂ /Pb(Zr _{0.52} Ti _{0.48})O ₃ heterostructure. <i>Applied Physics Letters</i> , 2019 , 114, 061603	3.4	4
66	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO (111) Thin Film. <i>Advanced Materials</i> , 2021 , 33, e2101316	24	4
65	Flexible artificial synapse based on single-crystalline BiFeO ₃ thin film. <i>Nano Research</i> , 1	10	4
64	Electronic correlation determining correlated plasmons in Sb-doped Bi ₂ Se ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
63	Magnetoelectric effect of epitaxial Cr ₂ O ₃ thin films with a conducting underlayer electrode. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 24LT03	3	3

62	Room temperature ferromagnetism in D-D neutron irradiated rutile TiO single crystals.. <i>RSC Advances</i> , 2020 , 10, 18687-18693	3.7	3
61	Oersted Field and Spin Current Effects on Magnetic Domains in [Co/Pd]15 Nanowires. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-6	2	3
60	Thickness dependence of anomalous Hall conductivity in L10-FePt thin film. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 43LT02	3	3
59	Formation of two-dimensional small polarons at the conducting LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2019 , 100,	3.3	3
58	Investigation of Heat-Assisted Magnetic Recording Media Films in Four Dimensions. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2510-2513	2	3
57	Ultra-thin L10-FePt for perpendicular anisotropy L10-FePt/Ag/[Co/Pd]30 pseudo spin valves. <i>Journal of Applied Physics</i> , 2014 , 115, 17C102	2.5	3
56	Atomistic Modeling of the Interlayer Coupling Behavior in Perpendicularly Magnetized $\text{L1}_{0}\text{-FePt/Ag/L1}_{0}\text{-FePt}$ Pseudo Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2646-2648	2	3
55	Electric-Field Effect on Magnetic Properties of FePt/PZN-PT Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4402-4404	2	3
54	Micromagnetic modelling of L10-FePt/Ag/L10-FePt pseudo spin valves. <i>Applied Physics Letters</i> , 2011 , 99, 162503	3.4	3
53	Magnetic Properties of Isolated FePt-C Nanocomposited Films. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1914-1917	2	3
52	Field dependence of spin and orbital moments of Fe in L10 FePt magnetic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e247-e250	2.8	3
51	The effects of pinning layer on the magnetic properties of FePt perpendicular media. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 2186-2188	2.8	3
50	Achieving giant tunneling electroresistance and magnetoresistance by BaTiO ₃ /SrTiO ₃ barrier and Heusler alloy electrode. <i>Physical Review Materials</i> , 2017 , 1,	3.2	3
49	Interfacial antiferromagnetic coupling between SrRuO ₃ and La _{0.7} Sr _{0.3} MnO ₃ with orthogonal easy axis. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
48	Tuning Irreversible Magnetoresistance in PrSrMnO Film via Octahedral Rotation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43222-43230	9.5	3
47	Interface-engineered electron and hole tunneling. <i>Science Advances</i> , 2021 , 7,	14.3	3
46	Thermal Effect in Current-Induced Magnetization Switching and Out-of-Plane Effective Field Measurements. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2483-2489	4	3
45	Investigation of non-local screening in K-edge XANES for Pr _{0.67} Sr _{0.33} MnO ₃ under high pressure. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 108-115	5.7	2

44	Memristors mimicking the regulation of synaptic plasticity and the refractory period in the phenomenological model. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5183-5190	7.1	2
43	Control of the Microstructure of FePt-SiN _x -C (001) Film by a Nucleation Layer Grown on TiN Intermediate Layer. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3299-3302	2	2
42	Lattice relaxation and its impact on magnetic properties of FePt thin film. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 015002	3	2
41	A Facile Chemical Solution-Based Method for Epitaxial Growth of Thick Ferrite Films. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500102	6.4	2
40	NiW/Ru underlayer for CoPt-SiO ₂ granular perpendicular recording media. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2636-9	1.3	2
39	Investigation of spin and orbital moments of L10 FePtRh thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 07C120	2.5	2
38	Growth and characterization of bamboo-shaped carbon nanotubes using nanocluster-assembled ZnO:Co thin films as catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6583-7	1.3	2
37	SmCo ₅ With Perpendicular Anisotropy Induced by a (211) Textured Ni ₄ W Underlayer. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2082-2085	2	2
36	Exchange Coupling Assisted FePtC Perpendicular Recording Media. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3547-3549	2	2
35	L10 ordered FePt based double-layered perpendicular recording media with (002) oriented FeCo films as a soft magnetic underlayer. <i>Thin Solid Films</i> , 2008 , 516, 2067-2070	2.2	2
34	Exchange coupling effects in CoCrPtSiO ₂ /FeCoTaCr composite media for perpendicular recording. <i>Physica Scripta</i> , 2007 , T129, 140-143	2.6	2
33	Modulation of preferred orientation and easy axis of magnetic anisotropy in L10 FePt films with Cu buffer layers. <i>Surface and Coatings Technology</i> , 2005 , 198, 262-265	4.4	2
32	Effect of Au distribution in NiO/Au film on the ohmic contact formation to p-type GaN. <i>Journal of Materials Research</i> , 2005 , 20, 456-463	2.5	2
31	Field emission from heat-treated cobalt-containing amorphous carbon composite films on glass substrate. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 950		2
30	FePt fct-[001] texture prepared at lower temperature for high areal density perpendicular recording. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2042-2044	2	2
29	Investigation of Spin Transport Properties in Perpendicularly Magnetized MoS ₂ /Pt/[Co/Ni] _n Multilayers with Effective Spin Injection into Two-Dimensional MoS ₂ . <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
28	Giant spin torque efficiency in single-crystalline antiferromagnet Mn ₂ Au films. <i>Science China Materials</i> , 2021 , 64, 2029-2036	7.1	2
27	Bipolar Conduction and Giant Positive Magnetoresistance in Doped Metallic Titanium Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002147	4.6	2

26	Memristor based on $\text{Hn}2\text{Se}3$ for emulating biological synaptic plasticity and learning behavior. <i>Science China Materials</i> ,1	7.1	2
25	Topological Hall transport: materials, mechanisms and potential applications. <i>Progress in Materials Science</i> , 2022 , 100971	42.2	2
24	Grain Isolation Control of FePt Thin Film by Using Ag Nucleation Layer. <i>IEEE Transactions on Magnetism</i> , 2013 , 49, 2594-2597	2	1
23	Note: application of a pixel-array area detector to simultaneous single crystal X-ray diffraction and X-ray absorption spectroscopy measurements. <i>Review of Scientific Instruments</i> , 2014 , 85, 046109	1.7	1
22	L10 FePt for Magnetic Recording Media Application 2011 , 223-255		1
21	MAGNETIC PROPERTIES OF NANOCRYSTALLINE CO-FERRITE FILMS DEPOSITED ON SINGLE-CRYSTAL SiO_2 SUBSTRATES USING PULSED LASER DEPOSITION. <i>Surface Review and Letters</i> , 2008 , 15, 71-75	1.1	1
20	Microstructural Studies of L10-FePt Thin Films with High Coercivity Fabricated at Low Deposition Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 811-814	2.3	1
19	Thermal effect on recording quality in heat-assisted recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e34-e38	2.8	1
18	Micromagnetic analysis of transition noise for high-density perpendicular recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e48-e51	2.8	1
17	Influence of Zr additives on the microstructure and oxidation resistance of Cu(Zr) thin films. <i>Journal of Materials Research</i> , 2005 , 20, 496-503	2.5	1
16	Investigation of titanium nitride films deposited at room temperature by energetic cluster impact. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 60, 200-204	3.1	1
15	Influence of BiFeO_3 crystallographic phase on the enhanced interfacial magnetization in $\text{BiFeO}_3/\text{La}_2/3\text{Sr}1/3\text{MnO}_3$ heterostructures. <i>Journal of Applied Physics</i> , 2020 , 127, 125302	2.5	1
14	Controlling Resistance Switching Performances of $\text{Hf} 0.5 \text{ Zr} 0.5 \text{ O} 2$ Films by Substrate Stress and Potential in Neuromorphic Computing. <i>Advanced Intelligent Systems</i> ,2100244	6	1
13	Study on End-of-Range Defects Induced by Sb Implantation. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 792, 269		0
12	Thickness and Ferroelectric Polarization Influence on Film Magnetic Anisotropy across a Multiferroic Material Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44317-44324	9.5	0
11	Correlated cation lattice symmetry and oxygen octahedral rotation in perovskite oxide heterostructures. <i>Journal of Applied Physics</i> , 2021 , 129, 025303	2.5	0
10	Spin Transport and Magnetism in Low-Dimensional Materials. <i>Advances in Condensed Matter Physics</i> , 2017 , 2017, 1-2	1	
9	Interlayer exchange coupling effect of L1(0) CoPt based exchange coupled composite media. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2607-10	1.3	

8	Selected peer-reviewed articles from the International Conference on Materials for Advanced Technologies (ICMAT 2009) Symposium E: Nanostructured Magnetic Materials and Their Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2549-50	1.3
7	Initial layer in FePt perpendicular media with different buffer layers. <i>International Journal of Surface Science and Engineering</i> , 2009 , 3, 103	1
6	Microstructure and magnetic properties of FePt/BiO ₂ perpendicular recording media. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2458-2463	1.6
5	Exchange-coupling-strength effect on the noise from soft magnetic underlayer. <i>Journal of Applied Physics</i> , 2005 , 97, 10N114	2.5
4	Effectiveness of Plasma Nitrided Silicon Oxynitride as a Barrier Layer between High k Materials and Si Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 745, 5221	
3	Enhanced Tunneling Magnetoresistance Effect via Ferroelectric Control of Interface Electronic/Magnetic Reconstructions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56638-56644	9.5
2	Nanostructured High-Anisotropy Materials for High-Density Magnetic Recording. <i>Nanostructure Science and Technology</i> , 2008 , 345-413	0.9
1	Interfacial engineering manipulation of magnetic anisotropy evolution via orbital reconstruction in low-dimensional manganite superlattices. <i>Science China Materials</i> , ¹	7.1