Chih-Huang Lai

List of Publications by Year in Descending Order

214 papers	3,699 citations	32 h-index	49 g-index
249 ext. papers	4,049 ext. citations	5.1 avg, IF	5.31 L-index

#	Paper	IF	Citations
214	Spin□rbit torque driven perpendicular magnetization switching in Re/CoFeB/MgO with high thermal stability. *APL Materials*, **2022**, 10, 011104	5.7	2
213	Controlling magnetic configuration in soft□ard bilayers probed by polarized neutron reflectometry. *APL Materials*, **2022**, 10, 011107	5.7	
212	Current-induced N□l order switching facilitated by magnetic phase transition.. *Nature Communications*, **2022**, 13, 1629	17.4	2
211	Surface Sulfurization of Cu(In,Ga)Se2 Solar Cells by Cosputtering In2S3 in the One-Step Sputtering Process. *ACS Applied Energy Materials*, **2021**, 4, 11555-11563	6.1	0
210	Room-Temperature Ferromagnetism of Single-Layer MoS2 Induced by Antiferromagnetic Proximity of Yttrium Iron Garnet. *Advanced Quantum Technologies*, **2021**, 4, 2000104	4.3	3
209	Effect of interfacial spin configuration on y-type spin□rbit torque switching in an antiferromagnetic heavy alloy/ferromagnet bilayer. *Applied Physics Letters*, **2021**, 118, 102403	3.4	2
208	Alignment-Free Sensing Module for Absolute and Incremental Lines in Linear Positioning System Based on Tunneling-Magnetoresistance Sensors. *Sensors*, **2021**, 21,	3.8	3
207	Tuning Ga Grading in Selenized Cu(In,Ga)Se2 Solar Cells by Formation of Ordered Vacancy Compound. *Solar Rrl*, **2021**, 5, 2000626	7.1	4
206	Thermally Robust Perpendicular SOT-MTJ Memory Cells With STT-Assisted Field-Free Switching. *IEEE Transactions on Electron Devices*, **2021**, 1-6	2.9	2
205	High thermal durability of Ru-based synthetic antiferromagnet by interfacial engineering with Re insertion. *Scientific Reports*, **2021**, 11, 15214	4.9	1
204	Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. *Applied Materials Today*, **2021**, 24, 101101	6.6	0
203	Engineering a Ga-Gradient by One-Step Sputtering to Achieve Over 15% Efficiency of Cu(In,Ga)Se Flexible Solar Cells without Post-selenization. *ACS Applied Materials & Interfaces*, **2020**, 12, 28320-28328	9.5	3
202	Efficiency Enhancement of Cu(In,Ga)(S,Se) Solar Cells by Indium-Doped CdS Buffer Layers. *ACS Applied Materials & Interfaces*, **2020**, 12, 18157-18164	9.5	8
201	Alkali-induced grain boundary reconstruction on Cu(In,Ga)Se2 thin film solar cells using cesium fluoride post deposition treatment. *Nano Energy*, **2020**, 68, 104299	17.1	25
200	Role of induced exchange bias in zero field spin□rbit torque magnetization switching in Pt/[Ni/Co]/PtMn. *AIP Advances*, **2020**, 10, 085320	1.5	3
199	Thermal spray coating of Al-Cu-Fe quasicrystals: Dynamic observations and surface properties. *Materialia*, **2019**, 8, 100432	3.2	3
198	Scalable Epitaxial Growth of WSe Thin Films on SiO/Si via a Self-Assembled PtSe Buffer Layer. *Scientific Reports*, **2019**, 9, 8017	4.9	6

197	Direct observation of growth and stability of Al-Cu-Fe quasicrystal thin films. *Acta Materialia*, **2019**, 174, 1-8	8.4	4
196	In-Situ observation of local atomic structure of Al-Cu-Fe quasicrystal formation. *Scientific Reports*, **2019**, 9, 1245	4.9	12
195	Manipulating exchange bias by spin-orbit torque. *Nature Materials*, **2019**, 18, 335-341	27	69
194	Interplay between potassium doping and bandgap profiling in selenized Cu(In,Ga)Se2 solar cells: A functional CuGa:KF surface precursor layer. *Nano Energy*, **2018**, 47, 393-400	17.1	10
193	Mechanical and surface properties of Aluminum-Copper-Iron quasicrystal thin films. *Journal of Alloys and Compounds*, **2018**, 732, 952-957	5.7	8
192	The role of Ag in aqueous solution processed (Ag,Cu)2ZnSn(S,Se)4 kesterite solar cells: antisite defect elimination and importance of Na passivation. *Journal of Materials Chemistry A*, **2018**, 6, 15170-15181	13	40
191	Nanoporous gyroid Ni/NiO/C nanocomposites from block copolymer templates with high capacity and stability for lithium storage. *Journal of Materials Chemistry A*, **2018**, 6, 13676-13684	13	28
190	Large enhancement of spin-orbit torques in Pd/CoFeB: The role of boron. *Physical Review Materials*, **2018**, 2,	3.2	8
189	Magnetic Interaction of Multifunctional Core-Shell Nanoparticles for Highly Effective Theranostics. *Advanced Materials*, **2018**, 30, e1802444	24	34
188	Spin and Charge Tunneling Transport in Magnetic Tunnel Junctions With Embedded Nanoparticles **2018**, 373-400		2
187	Initialization-Free Multilevel States Driven by Spin-Orbit Torque Switching. *Advanced Materials*, **2017**, 29, 1601575	24	20
186	Over 14% Efficiency of Directly Sputtered Cu(In,Ga)Se2 Absorbers without Postselenization by Post-Treatment of Alkali Metals. *Advanced Energy Materials*, **2017**, 7, 1602571	21.8	26
185	Sputtered In(O,S) Buffer Layers for Cu(In,Ga)Se Thin-Film Solar Cells: Engineering of Band Alignment and Interface Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 17586-17594	9.5	6
184	Efficiency enhancement of Cu 2 ZnSn(S,Se) 4 solar cells by S-modified surface layer. *Solar Energy Materials and Solar Cells*, **2017**, 162, 21-29	6.4	18
183	Engineering Na-transport to achieve high efficiency in ultrathin Cu(In,Ga)Se2 solar cells with controlled preferred orientation. *Nano Energy*, **2017**, 41, 697-705	17.1	11
182	Symmetric and Asymmetric Magnetic Tunnel Junctions with Embedded Nanoparticles: Effects of Size Distribution and Temperature on Tunneling Magnetoresistance and Spin Transfer Torque. *Scientific Reports*, **2017**, 7, 8357	4.9	6
181	Scaffold-Free Liver-On-A-Chip with Multiscale Organotypic Cultures. *Advanced Materials*, **2017**, 29, 1701545	24	34
180	Magnetic Nanomaterials for Data Storage **2017**, 439-472		2

179	Using magnetic structure of Co40Pd60/Cu for the sensing of hydrogen. *Applied Physics Letters*, **2017**, 111, 023503	3.4	11
178	Nano-Oxide-Layer-Induced Magnetic Properties of Ir-Mn-Based Spin-Valve Field Sensors. *IEEE Magnetics Letters*, **2016**, 7, 1-5	1.6	
177	Self-Assembled BiFeO3-Fe2O3 Vertical Heteroepitaxy for Visible Light Photoelectrochemistry. *Advanced Energy Materials*, **2016**, 6, 1600686	21.8	43
176	Calculation of Tunnel Magnetoresistance in Magnetic Tunnel Junctions With Particle Size Dispersion. *IEEE Magnetics Letters*, **2016**, 7, 1-3	1.6	3
175	An ammonia-free chemical-bath-deposited ZnS(O,OH) buffer layer for flexible Cu(In,Ga)Se2 solar cell application: an eco-friendly approach to achieving improved stability. *Green Chemistry*, **2016**, 18, 5212-5218	10	12
174	Direct probing Se spatial distribution in Cu(In Ga1)Se2 solar cells: A key factor to achieve high efficiency performance. *Nano Energy*, **2016**, 19, 269-278	17.1	16
173	Magnetostrictive type inductive sensing pressure sensor. *Sensors and Actuators A: Physical*, **2016**, 238, 25-36	3.9	17
172	Thermal dewetting with a chemically heterogeneous nano-template for self-assembled L1(0) FePt nanoparticle arrays. *Nanoscale*, **2016**, 8, 3926-35	7.7	6
171	Room-Temperature Chemical Solution Treatment for Flexible ZnS(O,OH)/Cu(In,Ga)Se2 Solar Cell: Improvements in Interface Properties and Metastability. *ACS Applied Materials & Interfaces*, **2016**, 8, 6709-17	9.5	16
170	Efficiency enhancement by adding SnS powder during selenization for Cu 2 ZnSn(S,Se) 4 thin film solar cells. *Solar Energy Materials and Solar Cells*, **2016**, 145, 296-302	6.4	12
169	Magnetic Yoking and Tunable Interactions in FePt-Based Hard/Soft Bilayers. *Scientific Reports*, **2016** , 6, 32842	4.9	15
168	Tunnel Magnetoresistance and Temperature Related Effects in Magnetic Tunnel Junctions with Embedded Nanoparticles. *Spin*, **2016**, 06, 1650001	1.3	5
167	Tuning the magnetic properties of self-assembled BiFeO3-CoFe2O4 heteroepitaxy by magneto-structural coupling. *Nanoscale*, **2016**, 8, 8847-54	7.7	20
166	Achieving high efficiency Cu2ZnSn(S,Se)4 solar cells by non-toxic aqueous ink: Defect analysis and electrical modeling. *Nano Energy*, **2016**, 26, 74-82	17.1	22
165	Bifacial sodium-incorporated treatments: Tailoring deep traps and enhancing carrier transport properties in Cu2ZnSnS4 solar cells. *Nano Energy*, **2015**, 16, 438-445	17.1	55
164	Magnetostriction and complex permeability of [Fe62Co19Ga19/Py]5/glass multilayered films. *Journal of Magnetism and Magnetic Materials*, **2015**, 385, 88-92	2.8	1
163	Na-induced efficiency boost for Se-deficient Cu(In,Ga)Se2 solar cells. *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 1621-1629	6.8	24
162	Nanoporous gyroid platinum with high catalytic activity from block copolymer templates via electroless plating. *NPG Asia Materials*, **2015**, 7, e170-e170	10.3	45

161	Anomalous Tunnel Magnetoresistance and Spin Transfer Torque in Magnetic Tunnel Junctions with Embedded Nanoparticles. *Scientific Reports*, **2015**, 5, 18026	4.9	11
160	Magnetic patterning: local manipulation of the intergranular exchange coupling via grain boundary engineering. *Scientific Reports*, **2015**, 5, 11904	4.9	6
159	Engineering spin-orbit torque in Co/Pt multilayers with perpendicular magnetic anisotropy. *Applied Physics Letters*, **2015**, 107, 232407	3.4	41
158	Tuning the functionalities of a mesocrystal via structural coupling. *Scientific Reports*, **2015**, 5, 12073	4.9	16
157	Self-Assembled Epitaxial Core-Shell Nanocrystals with Tunable Magnetic Anisotropy. *Small*, **2015**, 11, 4117-22	11	5
156	The effect of Ag incorporation on the phase stability, crystallinity and band structure on the (Cu,Ag)2ZnSn(S,Se)4 kesterite solar cells **2015**,		1
155	Design of magnetoelectric coupling in a self-assembled epitaxial nanocomposite via chemical interaction. *Journal of Materials Chemistry C*, **2014**, 2, 811-815	7.1	15
154	Conduction control at ferroic domain walls via external stimuli. *Nanoscale*, **2014**, 6, 10524-9	7.7	16
153	Application of strong transverse magneto-optical Kerr effect on high sensitive surface plasmon grating sensors. *Optics Express*, **2014**, 22, 19794-802	3.3	14
152	Effects of B additions in FePt and FePt:C films. *Journal of Applied Physics*, **2014**, 115, 17B713	2.5	8
151	Thermal stability, adhesion and electrical studies on (Ti,Zr)N x thin films as low resistive diffusion barriers between Cu and Si. *Electronic Materials Letters*, **2014**, 10, 551-556	2.9	3
150	Atomistic modeling of magnetization reversal modes in L10 FePt nanodots with magnetically soft edges. *Physical Review B*, **2014**, 90,	3.3	12
149	Effects of MnPt:C seed-layer on growing FePt:C granular films. *Journal of Applied Physics*, **2014**, 115, 17B734	2.5	
148	Using binary resistors to achieve multilevel resistive switching in multilayer NiO/Pt nanowire arrays. *NPG Asia Materials*, **2014**, 6, e85-e85	10.3	31
147	High thermal stability and low Gilbert damping constant of CoFeB/MgO bilayer with perpendicular magnetic anisotropy by Al capping and rapid thermal annealing. *Applied Physics Letters*, **2014**, 104, 142402	3.4	12
146	Probing the A1 to L10 transformation in FeCuPt using the first order reversal curve method. *APL Materials*, **2014**, 2, 086106	5.7	26
145	Non-antireflective scheme for efficiency enhancement of Cu(In,Ga)Se2 nanotip array solar cells. *ACS Nano*, **2013**, 7, 7318-29	16.7	25
144	Sharp variation in coercivity and magnetic interactions in patterned CoxNi1− nanoarrays. *Journal of Applied Physics*, **2013**, 114, 063902	2.5	4

143	Tuning the formation and functionalities of ultrafine CoFe2O4 nanocrystals via interfacial coherent strain. *Nanoscale*, **2013**, 5, 6219-23	7.7	7
142	Tuning magnetic anisotropy in (001) oriented L10 (Fe1−xCux)55Pt45 films. *Applied Physics Letters*, **2013**, 102, 132406	3.4	61
141	Fabrication of large-scale single-crystal Cu(In,Ga)Se2 nanotip arrays solar cell by one-step ion milling processes. *Thin Solid Films*, **2013**, 546, 347-352	2.2	8
140	Characteristics of reactively sputtered niobium nitride thin films as diffusion barriers for Cu metallization. *Electronic Materials Letters*, **2013**, 9, 593-597	2.9	11
139	Comprehensive characterization of Cu-rich Cu(In,Ga)Se2 absorbers prepared by one-step sputtering process. *Thin Solid Films*, **2013**, 535, 122-126	2.2	29
138	Stress-mediated magnetic anisotropy and magnetoelastic coupling in epitaxial multiferroic PbTiO3-CoFe2O4 nanostructures. *Applied Physics Letters*, **2013**, 102, 132905	3.4	30
137	Characterizing formation of interfacial domain wall and exchange coupling strength in laminated exchange coupled composites. *Applied Physics Letters*, **2013**, 102, 162408	3.4	4
136	Strong magnetic enhancement in self-assembled multiferroic-ferrimagnetic nanostructures. *Nanoscale*, **2013**, 5, 4449-53	7.7	41
135	Growth, Thermal Stability and Cu Diffusivity of Reactively Sputtered NbN Thin Films as Diffusion Barriers between Cu and Si. *ECS Journal of Solid State Science and Technology*, **2013**, 2, N152-N158	2	3
134	Highly (001)-oriented thin continuous L10 FePt film by introducing an FeOx cap layer. *Applied Physics Letters*, **2013**, 102, 062420	3.4	14
133	Nonvolatile electric-field modulation of magnetic anisotropy in perpendicularly magnetized L10-FePt/(001)[Pb(Mg1/3Nb2/3)]0.7-(PbTiO3)0.3 heterostructures. *Applied Physics Letters*, **2013**, 103, 252405	3.4	36
132	The comparison of different chemical reaction routes for CBD-ZnS applied on Cu(In, Ga)Se2 solar cells **2013**,		1
131	A promising sputtering route for one-step fabrication of chalcopyrite phase Cu(In,Ga)Se2 absorbers without extra Se supply. *Solar Energy Materials and Solar Cells*, **2012**, 103, 25-29	6.4	49
130	Mo effect on one-step sputtering chalcopyrite CIGS thin films **2012**,		1
129	Accelerating disorder–order transitions of FePt by preforming a metastable AgPt phase. *Acta Materialia*, **2012**, 60, 7258-7264	8.4	14
128	Fabrication of FePt networks by porous anodic aluminum oxide. *Journal of Applied Physics*, **2012**, 111, 07B923	2.5	5
127	Effects of oxide additives on inter-grain interaction of CoPtCr-oxide. *Journal of Applied Physics*, **2012**, 111, 07B725	2.5	1
126	Ultrafast carrier dynamics in Cu(In,Ga)Se2 thin films probed by femtosecond pump-probe spectroscopy. *Optics Express*, **2012**, 20, 12675-81	3.3	13

125	Promotion of [001]-oriented L10-FePt by rapid thermal annealing with light absorption layer. *Applied Physics Letters*, **2012**, 101, 252403	3.4	27
124	Investigation of perpendicular magnetic anisotropy of CoFeB by x-ray magnetic circular dichroism. *Applied Physics Letters*, **2012**, 100, 172414	3.4	22
123	Improvement of resistive switching in NiO-based nanowires by inserting Pt layers. *Applied Physics Letters*, **2012**, 101, 153106	3.4	23
122	Large scale single-crystal Cu(In,Ga)Se2 nanotip arrays for high efficiency solar cell. *Nano Letters*, **2011**, 11, 4443-8	11.5	53
121	Misorientation control and functionality design of nanopillars in self-assembled perovskite-spinel heteroepitaxial nanostructures. *ACS Nano*, **2011**, 5, 4118-22	16.7	66
120	Nanoporous gyroid nickel from block copolymer templates via electroless plating. *Advanced Materials*, **2011**, 23, 3041-6	24	124
119	(001) FePt graded media with PtMn underlayers. *Applied Physics Letters*, **2011**, 99, 212504	3.4	8
118	Performance improvement of CIGS solar cells with CBD-ZnS buffer layers by light soaking and rapid thermal annealing **2011**,		1
117	Shape-Controlled Growth and Shape-Dependent Cation Site Occupancy of Monodisperse Fe3O4 Nanoparticles. *Chemistry of Materials*, **2011**, 23, 1753-1760	9.6	80
116	Magnetically directed self-assembly of electrospun superparamagnetic fibrous bundles to form three-dimensional tissues with a highly ordered architecture. *Tissue Engineering - Part C: Methods*, **2011**, 17, 651-61	2.9	24
115	Reduction of surface roughness and Néel coupling in perpendicular magnetic tunnel junctions with L10-FePt electrodes by plasma treatments. *Journal of Applied Physics*, **2011**, 109, 07C724	2.5	1
114	Optimization of exchange coupled composite media by tuning the anisotropy in a laminated soft layer. *Journal of Applied Physics*, **2011**, 109, 07C104	2.5	6
113	A straightforward method to prepare chalcopyrite CIGS films by one-step sputtering process without extra Se supply **2011**,		2
112	Asymmetric double-shifted characteristics in epitaxial (002) exchange-biased IrMn/CoFe bilayers. *Applied Physics Letters*, **2011**, 98, 072501	3.4	8
111	Anti-Corroded Molybdenum Back Electrodes by Al Doping for CuIn1-xAlxSe2 Solar Cells. *Journal of the Electrochemical Society*, **2011**, 158, C231	3.9	2
110	Direct probing magnetization reversal of exchange-coupled-composite media by x-ray magnetic circular dichroism. *Applied Physics Letters*, **2011**, 98, 262507	3.4	5
109	Simultaneous enhancement of anisotropy and grain isolation in CoPtCr-SiO2 perpendicular recording media by a MnRu intermediate layer. *Physical Review B*, **2010**, 82,	3.3	15
108	Nonpolar resistive switching in the Pt/MgO/Pt nonvolatile memory device. *Applied Physics Letters*, **2010**, 96, 193505	3.4	70

107	The influence of magnetostatic interactions in exchange-coupled composite particles. *Journal Physics D: Applied Physics*, **2010**, 43, 275001	3	2
106	The characteristics, biodistribution, magnetic resonance imaging and biodegradability of superparamagnetic core-shell nanoparticles. *Biomaterials*, **2010**, 31, 1316-24	15.6	81
105	Controlling magnetization reversal in Co/Pt nanostructures with perpendicular anisotropy. *Applied Physics Letters*, **2009**, 94, 042507	3.4	48
104	Enhanced exchange bias in sub-50-nm IrMn/CoFe nanostructure. *Applied Physics Letters*, **2009**, 94, 082503	3.4	32
103	Exchange bias in CoFeBSiO2granular nanostructure. *Journal Physics D: Applied Physics*, **2009**, 42, 135002	3	2
102	Reduction in critical current density by tuning damping constants of CoFeB for spin-torque-transfer switching. *Journal Physics D: Applied Physics*, **2009**, 42, 115006	3	14
101	Ultrahigh-density (001)-oriented FePt nanoparticles by atomic-scale-multilayer deposition. *Journal of Applied Physics*, **2009**, 105, 07A713	2.5	7
100	Nonlithographic fabrication of 25 nm magnetic nanodot arrays with perpendicular anisotropy over a large area. *Journal of Applied Physics*, **2009**, 105, 07C112	2.5	11
99	Reorientation of exchange anisotropy in epitaxial (002) IrMn/CoFe system. *Journal of Applied Physics*, **2009**, 105, 07D724	2.5	4
98	Controlling stress and diffusion for the low-temperature-ordering of L10 ordered FePt films. *Jom*, **2009**, 61, 84-88	2.1	3
97	Defect mediated tuning of exchange bias in IrMn/CoFe nanostructure. *Journal of Applied Physics*, **2009**, 105, 07D722	2.5	12
96	Effects of perpendicular interlayer coupling strength on canting angles of TbCo-sublattice magnetization. *Physical Review B*, **2009**, 79,	3.3	3
95	Effects of laminated soft layer on magnetization reversal of exchange coupled composite media. *Journal of Applied Physics*, **2009**, 105, 07B729	2.5	6
94	Domain-wall depinning by controlling its configuration at notch. *Applied Physics Letters*, **2009**, 95, 032505	3.4	41
93	Magnetic reconstruction of three-dimensional tissues from multicellular spheroids. *Tissue Engineering - Part C: Methods*, **2008**, 14, 197-205	2.9	41
92	A large-area mesoporous array of magnetic nanostructure with perpendicular anisotropy integrated on Si wafers. *Nanotechnology*, **2008**, 19, 325302	3.4	32
91	(001) FePt nanoparticles with ultrahigh density of 10 T dots/in.2 on amorphous SiO2 substrates. *Applied Physics Letters*, **2008**, 93, 242501	3.4	54
90	Evolution of granular to particulate structure of (001) FePt on amorphous substrates (invited). *Journal of Applied Physics*, **2008**, 103, 07E126	2.5	25

89	Control of microstructure in (001)-orientated FePt–SiO2 granular films. *Journal of Applied Physics*, **2008**, 103, 07E140	2.5	23
88	Room-temperature fabricated ZnCoO diluted magnetic semiconductors. *Journal of Applied Physics*, **2007**, 101, 09H116	2.5	22
87	Influence on interfacial diffusive scatterings of the angle between the magnetizations of the two magnetic layers in a magnetic trilayer. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, e751-e752	2.8	
86	Exchange-Coupled IrMn/CoFe Mulitlayers for RF-Integrated Inductors. *IEEE Transactions on Magnetics*, **2007**, 43, 3930-3932	2	15
85	A Simple Route to Fabricate Percolated Perpendicular Magnetic Recording Media. *IEEE Transactions on Magnetics*, **2007**, 43, 2133-2135	2	23
84	High-density ordered triangular Si nanopillars with sharp tips and varied slopes: one-step fabrication and excellent field emission properties. *Nanotechnology*, **2007**, 18, 505305	3.4	17
83	Magnetic multilayers on porous anodized alumina for percolated perpendicular media. *Applied Physics Letters*, **2007**, 91, 132505	3.4	48
82	Coexistence of exchange-bias fields and vertical magnetization shifts in ZnCoO–NiO system. *Applied Physics Letters*, **2007**, 90, 062509	3.4	21
81	Low-temperature ordering of (001) granular FePt films by inserting ultrathin SiO2 layers. *Applied Physics Letters*, **2007**, 91, 072502	3.4	80
80	Reducing the Writing Temperature of Thermal Assisted Media by Controlling the Composition of FePt. *IEEE Transactions on Magnetics*, **2007**, 43, 822-824	2	3
79	Perpendicular interlayer coupling through oscillatory Ruderman-Kittel-Kasuya-Yosida interaction between CoPt multilayers and CoTbCo bilayers. *Journal of Applied Physics*, **2007**, 101, 09D121	2.5	18
78	. *IEEE Transactions on Magnetics*, **2006**, 42, 2978-2980	2	
77	Effect of Deposition Pressure on Switching Field Distribution of CoPtCr–SiO$_2$Perpendicular Magnetic Recording Thin Film Media. *IEEE Transactions on Magnetics*, **2006**, 42, 2396-2398	2	7
76	Exchange Anisotropy in Epitaxial. *IEEE Transactions on Magnetics*, **2006**, 42, 3005-3007	2	4
75	Exchange Bias Between ZnCoO and IrMn. *IEEE Transactions on Magnetics*, **2006**, 42, 3014-3016	2	4
74	Size-Dependent Magnetic Properties of PtMn Nanoparticles. *IEEE Transactions on Magnetics*, **2006**, 42, 3069-3071	2	18
73	Anisotropy transition of Co in IrMn–CoFeOx–Co by field cooling. *Journal of Applied Physics*, **2006**, 99, 08C910	2.5	
72	Low-temperature ordering of L10 FePt by PtMn underlayer. *Applied Physics Letters*, **2006**, 88, 152508	3.4	51

71	Effects of TbPtRu underlayer on microstructure and magnetic properties of CoPtCrSiO2 perpendicular media. *Journal of Applied Physics*, **2006**, 99, 08E703	2.5	2
70	Enhancement of exchange coupling between GaMnAs and IrMn with self-organized Mn(Ga)As at the interface. *Applied Physics Letters*, **2006**, 89, 262502	3.4	10
69	Influence of La doping in multiferroic properties of BiFeO3 thin films. *Applied Physics Letters*, **2006**, 88, 042903	3.4	265
68	Uniaxial to unidirectional transition of perpendicular interlayer coupling in IrMnCoFeNiFeOCoFe quadrilayers. *Applied Physics Letters*, **2006**, 88, 112510	3.4	4
67	Irradiation-controlled giant magnetoresistance of PtMn-based spin valve. *Journal of Applied Physics*, **2006**, 99, 08R508	2.5	2
66	Perpendicular giant magnetoresistance composed of [CoPt] multilayer and CoFeTbCo. *Journal of Applied Physics*, **2006**, 99, 08T106	2.5	13
65	Underlayer-enhanced perpendicular anisotropy of FePt films. *Journal of Magnetism and Magnetic Materials*, **2006**, 304, e237-e239	2.8	2
64	Thermally assisted writing for perpendicular MRAM. *Journal of Magnetism and Magnetic Materials*, **2006**, 304, 93-96	2.8	6
63	Effects of ion-beam irradiation on the L10 phase transformation and their magnetic properties of FePt and PtMn films (Invited). *Materials Research Society Symposia Proceedings*, **2005**, 887, 1		1
62	Probing the magnetization vectors in layered magnetic structures. *Journal of Electron Spectroscopy and Related Phenomena*, **2005**, 144-147, 737-739	1.7	5
61	Synthesis and property of core-shell Ag@Fe/sub 3/O/sub 4/ nanoparticles. *IEEE Transactions on Magnetics*, **2005**, 41, 3397-3399	2	9
60	Co-existence of biquadratic and unidirectional anisotropy in IrMn/CoFe/FeO/sub x//CoFe films. *IEEE Transactions on Magnetics*, **2005**, 41, 2703-2705	2	2
59	. *IEEE Transactions on Magnetics*, **2005**, 41, 3199-3201	2	6
58	Origin of the anisotropy in soft nanocrystalline FeTaCN films. *Journal of Applied Physics*, **2005**, 97, 10N302	2.5	5
57	Effects of forming gas annealing on low-temperature ordering of FePt films. *Journal of Applied Physics*, **2005**, 97, 10H305	2.5	21
56	Improvement of magnetic properties of FePt nanoparticles by adding Mn. *Journal of Applied Physics* , **2005**, 97, 10J314	2.5	12
55	The switching behaviors of submicron magnetic tunnel junctions with synthetic antiferromagnetic free layers. *Journal of Applied Physics*, **2005**, 97, 10C923	2.5	4
54	Low-temperature ordering of FePt by formation of silicides in underlayers. *Journal of Applied Physics*, **2005**, 97, 10H310	2.5	14

53	Magnetic properties and L10 phase formation of FePt films prepared by high current-density ion-beam irradiation and rapid thermal annealing methods. *Journal of Applied Physics*, **2005**, 97, 10H306	2.5	11
52	Room-temperature growth of epitaxial (111) Fe3O4 films with conductive Cu underlayer. *Journal of Applied Physics*, **2005**, 97, 10C311	2.5	15
51	Thermally assisted-writing giant magnetoresistance with perpendicular magnetization. *Journal of Applied Physics*, **2005**, 97, 10C511	2.5	10
50	Dynamic stress-induced low-temperature ordering of FePt. *Applied Physics Letters*, **2004**, 85, 4430	3.4	64
49	Room-temperature growth of epitaxial Fe3O4 films by ion beam deposition. *Journal of Applied Physics*, **2004**, 95, 7222-7224	2.5	25
48	Improvement of switching field in AFC media by inserting Ru or CoCr layers in stabilizing Layer. *IEEE Transactions on Magnetics*, **2004**, 40, 2434-2436	2	
47	Effects of orientation transition on exchange anisotropy of CoNiMn films by biorientation epitaxial Cu/Au/Cu underlayers. *Applied Physics Letters*, **2004**, 85, 2298-2300	3.4	8
46	Low-ordering-temperature fabrication of FePt by ion irradiation. *IEEE Transactions on Magnetics*, **2004**, 40, 2519-2521	2	9
45	Thickness dependence of Co anisotropy in TbFe/Co exchange-coupled bilayers. *Journal of Applied Physics*, **2004**, 95, 6846-6848	2.5	13
44	Layer- and lateral-resolved magnetization studies using photoemission electron microscopy. *Journal of Magnetism and Magnetic Materials*, **2004**, 282, 49-52	2.8	8
43	Effects of orientation and temperature on magnetoresistance of Fe/Si multilayers. *Journal of Magnetism and Magnetic Materials*, **2004**, 282, 96-99	2.8	1
42	Novel laminated antiferro-magnetically coupled soft magnetic underlayer for perpendicular recording media. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 2312-2313	2.8	7
41	Growth of (Ti,Zr)N Films on Si by DC Reactive Sputtering of TiZr in N[sub 2]/Ar Gas Mixtures. *Journal of the Electrochemical Society*, **2004**, 151, C176	3.9	9
40	Effects of Mn- and Zr-doped CrMo double underlayers on structure and magnetic properties of CoCrPtB longitudinal media. *IEEE Transactions on Magnetics*, **2003**, 39, 2267-2269	2	2
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