

Seidikkurippu N Piramanayagam

List of Publications by Year in descending order

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229
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229
docs citations

229
times ranked

3684
citing authors

#	ARTICLE	IF	CITATIONS
1	New Development of Permanent Magnets Through Grain Boundary Diffusion and Nanostructuring. Nano, 2022, 17, .	1.0	5
2	Emulation of Synaptic Plasticity on a Cobalt-Based Synaptic Transistor for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2022, 14, 11864-11872.	8.0	26
3	Foreword Special Issue on Spintronics-Devices and Circuits. IEEE Transactions on Electron Devices, 2022, 69, 1622-1628.	3.0	0
4	Domain wall memory: Physics, materials, and devices. Physics Reports, 2022, 958, 1-35.	25.6	56
5	Energy-Efficient All-Spin BNN Using Voltage-Controlled Spin-Orbit Torque Device for Digit Recognition. IEEE Transactions on Electron Devices, 2021, 68, 385-392.	3.0	18
6	Effect of Light and Heat on Polymer-Based Resistive Random Access Memory. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100050.	2.4	1
7	Broad-energy oxygen ion implantation controlled magnetization dynamics in CoFeTaZr. Journal of Alloys and Compounds, 2021, 872, 159685.	5.5	4
8	Domain wall dynamics in (Co/Ni)n nanowire with anisotropy energy gradient for neuromorphic computing applications. Journal of Magnetism and Magnetic Materials, 2021, 537, 168131.	2.3	8
9	Domain wall pinning through nanoscale interfacial Dzyaloshinskii-Moriya interaction. Journal of Applied Physics, 2021, 130, .	2.5	7
10	Enhanced spin-orbit torque efficiency in Pt/Co/Ho heterostructures via inserting Ho layer. APL Materials, 2020, 8, .	5.1	8
11	Magnetic domain structure and magnetization reversal in (Co/Ni) and (Co/Pd) multilayers. Journal of Magnetism and Magnetic Materials, 2020, 503, 166579.	2.3	4
12	Controlled spin-torque driven domain wall motion using staggered magnetic wires. Applied Physics Letters, 2020, 116, .	3.3	18
13	Spin transfer torque induced domain wall oscillations in ferromagnetic nanowire with a nanoscale Dzyaloshinskii-Moriya interaction region. Journal of Magnetism and Magnetic Materials, 2020, 507, 166807.	2.3	11
14	Synaptic element for neuromorphic computing using a magnetic domain wall device with synthetic pinning sites. Journal Physics D: Applied Physics, 2019, 52, 445001.	2.8	21
15	Tilted magnetisation for domain wall pinning in racetrack memory. Journal of Magnetism and Magnetic Materials, 2019, 489, 165410.	2.3	8
16	Effect of Dzyaloshinskii-Moriya Interaction Energy Confinement on Current-Driven Dynamics of Skyrmions. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900090.	2.4	11
17	Realization of Energy Harvesting Based on Stress-Induced Modification of Magnetic Domain Structures in Microwires. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	2
18	Magnetoresistive Sensor Development Roadmap (Non-Recording Applications). IEEE Transactions on Magnetics, 2019, 55, 1-30.	2.1	138

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19	Staggered Magnetic Nanowire Devices for Effective Domain-Wall Pinning in Racetrack Memory. Physical Review Applied, 2019, 11, .	3.8	44
20	High Amplitude Microwave Generation Using Domain Wall Motion in a Nanowire. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800479.	2.4	4
21	Domain Wall Motion Control for Racetrack Memory Applications. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	16
22	Nd-Fe-B films with perpendicular magnetic anisotropy and extremely large room temperature coercivity. Journal of Magnetism and Magnetic Materials, 2019, 474, 406-410.	2.3	5
23	Stress-Induced Domain Wall Motion in FeCo-Based Magnetic Microwires for Realization of Energy Harvesting. Advanced Electronic Materials, 2019, 5, 1800467.	5.1	19
24	Electric Field-Induced Creation and Directional Motion of Domain Walls and Skyrmion Bubbles. Nano Letters, 2019, 19, 353-361.	9.1	97
25	Nanoscale modification of magnetic properties for effective domain wall pinning. Journal of Magnetism and Magnetic Materials, 2019, 475, 70-75.	2.3	7
26	Ion-Implantation-Induced Disorder in FePt-C Thin Films. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	3
27	Nitrogen plasma treatment in two-step temperature deposited FePt bilayer media. Journal of Magnetism and Magnetic Materials, 2018, 461, 6-13.	2.3	2
28	Exchange coupled CoPt/FePtC media for heat assisted magnetic recording. Applied Physics Letters, 2018, 112, 142411.	3.3	5
29	Domain wall oscillation in magnetic nanowire with a geometrically confined region. Journal of Magnetism and Magnetic Materials, 2018, 456, 324-328.	2.3	19
30	Modification of Structural and Magnetic Properties of Masked CoPt Films Induced by High-Energy Ion Implantation. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	7
31	Broadband strip-line ferromagnetic resonance spectroscopy of soft magnetic CoFeTaZr patterned thin films. AIP Advances, 2018, 8, .	1.3	9
32	Switching domain wall motion on and off using a gate voltage for domain wall transistor applications. Applied Physics Letters, 2018, 113, 232401.	3.3	6
33	[Co/Ni] multilayers with robust post-annealing performance for spintronics device applications. Journal Physics D: Applied Physics, 2018, 51, 465002.	2.8	10
34	Tailoring the structural and magnetic properties of masked CoPt thin films using ion implantation. AIP Advances, 2018, 8, .	1.3	7
35	Nanoscale Compositional Modification in Co/Pd Multilayers for Controllable Domain Wall Pinning in Racetrack Memory. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800197.	2.4	28
36	High temperature ferromagnetic resonance study on pMTJ stacks with diffusion barrier layers. Journal Physics D: Applied Physics, 2018, 51, 405001.	2.8	3

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37	Partial crystallization in amorphous magnetic film induced by Ru layer interface. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600341.	2.4	1
38	Recent Developments in Spin Transfer Torque MRAM. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700163.	2.4	45
39	Spintronics based random access memory: a review. Materials Today, 2017, 20, 530-548.	14.2	689
40	High switching efficiency in FePt exchange coupled composite media mediated by MgO exchange control layers. Applied Physics Letters, 2017, 111, 042405.	3.3	5
41	Tuning magnetic properties for domain wall pinning via localized metal diffusion. Scientific Reports, 2017, 7, 16208.	3.3	26
42	The IEEE International Magnetism Conference 2017 Publication Chairs' Preface. IEEE Transactions on Magnetism, 2017, , 1-1.	2.1	0
43	Ferromagnetic resonance measurements of (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2016, 49, 425002.	2.8	16
44	Holographonics. Materials Today, 2016, 19, 368-369.	14.2	2
45	The XXVI Magnetic Recording Conference 2015 Foreword. IEEE Transactions on Magnetism, 2016, 52, 1-1.	2.1	0
46	Ferromagnetic resonance measurements of (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2016, 49, .	2.8	0
47	Enhancement of spin-wave nonreciprocity in magnonic crystals via synthetic antiferromagnetic coupling. Scientific Reports, 2015, 5, 10153.	3.3	47
48	Two-step temperature deposited FePt bilayer for tunable magnetic properties. Journal Physics D: Applied Physics, 2015, 48, 445007.	2.8	3
49	XXV Magnetic Recording Conference 2014 Foreword. IEEE Transactions on Magnetism, 2015, 51, 1-1.	2.1	0
50	Effect of Carbon Overcoat Implantation on the Magnetic and Structural Properties of Perpendicular Recording Media. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	0
51	Temperature effect on exchange coupling and magnetization reversal in antiferromagnetically coupled (Co/Pd) multilayers. Journal of Applied Physics, 2015, 118, .	2.5	7
52	Magnetic Properties and Magnetization Reversal of Thin Films and Nanodots Consisting of Exchange-Coupled Composite Co/Pd Multi-Layer and Co Layer With Orthogonal Anisotropies. IEEE Transactions on Magnetism, 2015, 51, 1-9.	2.1	2
53	Higher Resolution Scanning Probe Methods for Magnetic Imaging. , 2015, , 463-487.		1
54	Role of Thermal Effects on Magnetic Interactions in Stacked Magnetic Layers With Perpendicular Anisotropy. IEEE Magnetism Letters, 2014, 5, 1-4.	1.1	0

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55	Investigation into the impact of grain-size and grain-size variation on system level error rates. , 2014, ,		0
56	Spin reorientation via antiferromagnetic coupling. Journal of Applied Physics, 2014, 115, 17C103.	2.5	4
57	Magnetic interactions in CoCrPt-oxide based perpendicular magnetic recording media. Journal of Applied Physics, 2014, 116, 163909.	2.5	3
58	Investigations of stacking fault density in perpendicular recording media. Journal of Applied Physics, 2014, 115, 243901.	2.5	5
59	Microstructure investigations of hcp phase CoPt thin films with high coercivity. Journal of Applied Physics, 2014, 115, 083910.	2.5	8
60	Investigations of Stacking Faults in Stacked Granular Perpendicular Recording Media With a High-Anisotropy CoPt Layer. IEEE Transactions on Magnetism, 2014, 50, 1-4.	2.1	2
61	Equiatomic CoPt thin films with extremely high coercivity. Journal of Applied Physics, 2014, 115, .	2.5	21
62	Multi-level domain wall memory in constricted magnetic nanowires. Applied Physics A: Materials Science and Processing, 2014, 114, 1347-1351.	2.3	28
63	Ion Implantation Challenges for Patterned Media at Areal Densities Over 5 Tbps. IEEE Transactions on Magnetism, 2014, 50, 41-46.	2.1	7
64	Noise Characterization of Perpendicular Recording Media by Cluster Size Measurements. IEEE Transactions on Magnetism, 2014, 50, 1-6.	2.1	9
65	Optimization of perpendicular magnetic anisotropy tips for high resolution magnetic force microscopy by micromagnetic simulations. Applied Physics A: Materials Science and Processing, 2013, 112, 985-991.	2.3	2
66	Micromagnetic study of effect of tip-coating microstructure on the resolution of magnetic force microscopy. Applied Physics A: Materials Science and Processing, 2013, 110, 217-225.	2.3	2
67	Writability Improvement in Perpendicular Recording Media Using Crystalline Soft Underlayer Materials. IEEE Transactions on Magnetism, 2013, 49, 758-764.	2.1	3
68	High speed in spin-torque-based magnetic memory using magnetic nanocontacts. Physica Status Solidi - Rapid Research Letters, 2013, 7, 332-335.	2.4	2
69	CoFeB spin polarizer layer composition effect on magnetization and magneto-transport properties of Co/Pd-based multilayers in pseudo-spin valve structures. Journal of Applied Physics, 2013, 113, 023909.	2.5	0
70	The effect of high deposition energy of carbon overcoats on perpendicular magnetic recording media. Applied Physics Letters, 2013, 103, .	3.3	3
71	Lateral displacement induced disorder in L10-FePt nanostructures by ion-implantation. Scientific Reports, 2013, 3, 1907.	3.3	25
72	Reverse Nanoimprint Lithography for Fabrication of Nanostructures. Nanoscience and Nanotechnology Letters, 2012, 4, 835-838.	0.4	5

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73	Magnetic properties of antidots in conventional and spin-reoriented antiferromagnetically coupled layers. Journal of Applied Physics, 2012, 111, 07B921.	2.5	3
74	Influence of magnetic viscosity on the first order reversal curves of antiferromagnetically coupled perpendicular recording media. Journal of Applied Physics, 2012, 111, .	2.5	10
75	Magnetic and First-Order Reversal Curve Investigations of Antiferromagnetically Coupled Nanostructures of Co/Pd Multilayers. IEEE Transactions on Magnetics, 2012, 48, 3410-3413.	2.1	3
76	Influence of Spin Polarizer on the Magnetoresistance, Switching Property, and Interlayer Interactions in Co/Pd Single Spin Valves. IEEE Transactions on Magnetics, 2012, 48, 3434-3437.	2.1	2
77	Materials Optimization of the Magnonic Bandgap in Two-Dimensional Bi-Component Magnonic Crystal Waveguides. Nanoscience and Nanotechnology Letters, 2012, 4, 663-666.	0.4	6
78	First-Order Reversal Curve Investigations on the Effects of Ion Implantation in Magnetic Media. IEEE Transactions on Magnetics, 2012, 48, 2753-2756.	2.1	11
79	Micromagnetic studies on resolution limits of magnetic force microscopy tips with different magnetic anisotropy. Journal of Applied Physics, 2012, 111, .	2.5	7
80	Magnetic properties of antiferromagnetically coupled antidots of Co/Pd multilayers. Journal of Applied Physics, 2012, 111, 07B916.	2.5	5
81	Band structures of exchange spin waves in one-dimensional bi-component magnonic crystals. Journal of Applied Physics, 2012, 111, 064326.	2.5	20
82	Effect of different compositions of CoFeB spin polarizer on magnetoresistance and switching property of Co/Pd multilayers with perpendicular magnetic anisotropy. Journal of Applied Physics, 2012, 111, 07D306.	2.5	3
83	Characterization of high-density bit-patterned media using ultra-high resolution magnetic force microscopy. Physica Status Solidi - Rapid Research Letters, 2012, 6, 141-143.	2.4	10
84	Advanced Magnetic Force Microscopy for High Resolution Magnetic Imaging. Nanoscience and Nanotechnology Letters, 2012, 4, 628-633.	0.4	2
85	Selected Peer-Reviewed Articles from the International Conference on Materials for Advanced Technologies (ICMAT 2011) Symposium L: Memory, Nanomagnetism, Materials and Devices. Nanoscience and Nanotechnology Letters, 2012, 4, 609-610.	0.4	0
86	Anomalous Hall effect measurements on capped bit-patterned media. Applied Physics Letters, 2011, 99, .	3.3	9
87	Micromagnetic study of spin wave propagation in bicomponent magnonic crystal waveguides. Applied Physics Letters, 2011, 98, .	3.3	87
88	Spin transfer torque switching for multi-bit per cell magnetic memory with perpendicular anisotropy. Applied Physics Letters, 2011, 99, 092506.	3.3	46
89	Selected Peer-Reviewed Articles from the International Conference on Materials for Advanced Technologies (ICMAT 2009) Symposium E: Nanostructured Magnetic Materials and Their Applications. Journal of Nanoscience and Nanotechnology, 2011, 11, 2549-2550.	0.9	0
90	Magnetostatic Interactions in Antiferromagnetically Coupled Patterned Media. Journal of Nanoscience and Nanotechnology, 2011, 11, 2555-2559.	0.9	1

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91	Effect of Short Annealing Times on the Magneto-electronic Properties of Co/Pd-Based Pseudo-Spin-Valves. Journal of Nanoscience and Nanotechnology, 2011, 11, 2661-2664.	0.9	2
92	Perspectives for 10 Terabits/in²; Magnetic Recording. Journal of Nanoscience and Nanotechnology, 2011, 11, 2704-2709.	0.9	9
93	Ion-Implantation Studies on Perpendicular Media. Journal of Nanoscience and Nanotechnology, 2011, 11, 2619-2622.	0.9	2
94	Ion Beam Modification of Exchange Coupling to Fabricate Patterned Media. Journal of Nanoscience and Nanotechnology, 2011, 11, 2611-2614.	0.9	3
95	Effect of Interrow Magnetic Coupling on Band Structures of 2-D Magnonic Crystal Waveguides. IEEE Transactions on Magnetics, 2011, 47, 2689-2692.	2.1	8
96	Tailoring the growth of L1₀-FePt for spintronics applications. Physica Status Solidi - Rapid Research Letters, 2011, 5, 426-428.	2.4	9
97	Materials with perpendicular magnetic anisotropy for magnetic random access memory. Physica Status Solidi - Rapid Research Letters, 2011, 5, 413-419.	2.4	208
98	Focus on Spintronics and Spin Physics. Physica Status Solidi - Rapid Research Letters, 2011, 5, A117-A118.	2.4	0
99	Ion implantation induced modification of structural and magnetic properties of perpendicular media. Journal Physics D: Applied Physics, 2011, 44, 365001.	2.8	11
100	Origin of anomalously high exchange field in antiferromagnetically coupled magnetic structures: Spin reorientation versus interface anisotropy. Journal of Applied Physics, 2011, 110, 093915.	2.5	2
101	Magnetic and structural properties of CoCrPt-SiO ₂ -based graded media prepared by ion implantation. Journal of Applied Physics, 2011, 110, 083917.	2.5	20
102	Path to achieve sub-10-nm half-pitch using electron beam lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, 011035.	1.2	19
103	Magnetic interaction in perpendicular recording media with synthetic nucleation layers. Applied Physics Letters, 2011, 98, 152504.	3.3	5
104	Variable angle magnetometry for exchange-coupled multilayers with in-plane and perpendicular anisotropy. Journal of Applied Physics, 2011, 110, 123905.	2.5	3
105	Magnetostatic interaction effects in switching field distribution of conventional and staggered bit-patterned media. Journal Physics D: Applied Physics, 2011, 44, 265005.	2.8	17
106	Enhanced resolution in magnetic force microscopy using tips with perpendicular magnetic anisotropy. Journal of Applied Physics, 2011, 109, .	2.5	13
107	Effect of RuCoCr-oxide intermediate layers on the growth, microstructure, and recording performance of CoCrPt-SiO ₂ perpendicular recording media. Journal of Applied Physics, 2010, 107, 033901.	2.5	1
108	Magnetic Properties and Corrosion Resistance Studies on Hybrid Magnetic Overcoats for Perpendicular Recording Media. IEEE Transactions on Magnetics, 2010, 46, 1069-1076.	2.1	4

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109	Characterization of Coupled Novel Magnetic Multilayers With Anomalous Hall Effect. IEEE Transactions on Magnetics, 2010, 46, 2409-2412.	2.1	7
110	Effect of Different Seed Layers on Magnetic and Transport Properties of Perpendicular Anisotropic Spin Valves. IEEE Transactions on Magnetics, 2010, 46, 1933-1936.	2.1	11
111	Antiferromagnetically Coupled Patterned Media and Control of Switching Field Distribution. IEEE Transactions on Magnetics, 2010, 46, 1787-1790.	2.1	25
112	Effect of magnetostatic energy on domain structure and magnetization reversal in (Co/Pd) multilayers. Journal of Applied Physics, 2010, 107, .	2.5	42
113	Novel planarizing scheme for patterned media. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 806-808.	1.2	1
114	Planarization of Patterned Recording Media. IEEE Transactions on Magnetics, 2010, 46, 758-763.	2.1	5
115	Patterned media with composite structure for writability at high areal recording density. Journal of Applied Physics, 2009, 105, .	2.5	29
116	Effect of deposition conditions on roughness and corrosion behavior of stacked CoCrPt:SiO ₂ /PMR media. , 2009, , .		0
117	Evolution of Perpendicular Recording Media Grains on Carbon-Based Synthetic Nucleation Layer. IEEE Transactions on Magnetics, 2009, 45, 793-798.	2.1	2
118	Effect of film texture on magnetization reversal and switching field in continuous and patterned (Co/Pd) multilayers. Journal of Applied Physics, 2009, 106, 023906.	2.5	28
119	Study of Recorded Mark Width Change with Laser Power in Heat-Assisted Magnetic Recording. Japanese Journal of Applied Physics, 2009, 48, 03A058.	1.5	0
120	Nanoimprint mold fabrication and duplication for embedded servo and discrete track recording media. Journal of Vacuum Science & Technology B, 2009, 27, 2259.	1.3	12
121	Antiferromagnetically coupled patterned media. Journal of Applied Physics, 2009, 105, .	2.5	31
122	CoRuCr-oxide intermediate layers for perpendicular magnetic recording media. Journal of Applied Physics, 2009, 105, 07B717.	2.5	2
123	Antiferromagnetic iridium-manganese intermediate layers for perpendicular recording media (invited). Journal of Applied Physics, 2009, 105, 07B738.	2.5	1
124	Anomalous Hall effect measurement of novel magnetic multilayers. Journal of Applied Physics, 2009, 106, 093904.	2.5	6
125	Optimizing tape burnishing/wiping process of magnetic recording media through Taguchi method. Quality and Reliability Engineering International, 2009, 25, 345-354.	2.3	2
126	Recording media research for future hard disk drives. Journal of Magnetism and Magnetic Materials, 2009, 321, 485-494.	2.3	129

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127	Intermediate layer thickness dependence on switching field distribution in perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2009, 321, 2682-2684.	2.3	3
128	Corrigendum to "Intermediate layer thickness dependence on switching field distribution in perpendicular recording media" [J. Magn. Magn. Mater. 321 (2009) 2682-2684]. Journal of Magnetism and Magnetic Materials, 2009, 321, 3652.	2.3	0
129	Patterned media with composite in-plane and perpendicular anisotropy recording layers. Journal of Magnetism and Magnetic Materials, 2009, 321, 3963-3966.	2.3	1
130	Magnetization reorientation in antiferromagnetically coupled Co films and (Co/Pd) multilayers. Applied Physics Letters, 2009, 95, .	3.3	21
131	Material and Layer Design to Overcome Writing Challenges in Bit-Patterned Media. IEEE Transactions on Magnetics, 2009, 45, 828-832.	2.1	7
132	Nanocomposite magnetic films for high-density perpendicular magnetic recording media. Thin Solid Films, 2008, 516, 5381-5385.	1.8	5
133	Thermal stability and the magnetization process in CoCrPt/SiO ₂ perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2008, 320, 3041-3045.	2.3	18
134	Microstructure and switching mechanism of stacked CoCrPt/SiO ₂ perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2008, 320, 3036-3040.	2.3	8
135	Enhanced heteroepitaxial growth of CoCrPt/SiO ₂ perpendicular magnetic recording media on optimized Ru intermediate layers. Journal of Applied Physics, 2008, 103, 023909.	2.5	3
136	Interactions in Nanoscale Arrays of Soft Magnetic Bi-Layers. IEEE Transactions on Magnetics, 2008, 44, 2722-2725.	2.1	3
137	CoCrPt-oxide based perpendicular recording media with hybrid soft magnetic underlayers. Journal of Applied Physics, 2008, 104, 103905.	2.5	5
138	Antiferromagnetic iridium manganese based intermediate layers for perpendicular magnetic recording media. Applied Physics Letters, 2008, 93, 072503.	3.3	8
139	High frequency switching in bit-patterned media: A method to overcome synchronization issue. Applied Physics Letters, 2008, 92, 012510.	3.3	6
140	Influence of synthetic nucleation layers on the microstructure, magnetic properties, and recording performance of CoCrPt/SiO ₂ perpendicular recording media. Journal of Applied Physics, 2008, 103, 093912.	2.5	6
141	Sub-50-nm track pitch mold using electron beam lithography for discrete track recording media. Journal of Vacuum Science & Technology B, 2008, 26, 1666.	1.3	8
142	Novel hybrid magnetic overcoats: A prospective solution for low magnetic spacing. Journal of Applied Physics, 2008, 103, 07F523.	2.5	6
143	Microstructure and magnetic properties of CoCrPt/SiO ₂ perpendicular recording media with synthetic nucleation layers. Journal of Applied Physics, 2008, 103, 07F512.	2.5	10
144	Magnetic and transport properties of Co-doped Fe ₃ O ₄ films. Journal of Applied Physics, 2007, 101, 013904.	2.5	46

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145	Patterned Media Towards Nano-bit Magnetic Recording: Fabrication and Challenges. Recent Patents on Nanotechnology, 2007, 1, 29-40.	1.3	55
146	Spin-transfer induced noise in nanoscale magnetoresistive sensors. Journal of Applied Physics, 2007, 101, 073911.	2.5	3
147	Sub-6-nm grain size control in polycrystalline thin films using synthetic nucleation layer. Applied Physics Letters, 2007, 91, 142508.	3.3	23
148	Role of substrate bias on the magnetic properties and microstructure of CoCrPt:SiO ₂ perpendicular recording media. Journal of Applied Physics, 2007, 101, 103914.	2.5	12
149	High Writability Perpendicular Recording Media With Low Noise Crystalline Soft Underlayer. IEEE Transactions on Magnetics, 2007, 43, 873-875.	2.1	3
150	Exchange coupling effects in CoCrPt/SiO ₂ /FeCoTaCr composite media for perpendicular recording. Physica Scripta, 2007, T129, 140-143.	2.5	2
151	Novel hybrid facing targets sputtered amorphous carbon overcoat for ultra-high density hard disk media. Diamond and Related Materials, 2007, 16, 379-387.	3.9	11
152	Magnetic and Microstructural Properties of CoCrPt:Oxide Perpendicular Recording Media With Novel Intermediate Layers. IEEE Transactions on Magnetics, 2007, 43, 633-638.	2.1	20
153	Perpendicular recording media for hard disk drives. Journal of Applied Physics, 2007, 102, .	2.5	396
154	Corrosion performance of thin hydrogenated amorphous carbon films prepared by magnetron sputtering. Diamond and Related Materials, 2007, 16, 1716-1721.	3.9	7
155	Effect of seed layers on the textured growth of Pd/Ru intermediate layers for perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2007, 312, 476-479.	2.3	4
156	Low-Noise Crystalline Soft Underlayer for CoCrPt:SiO ₂ Perpendicular Recording Media. IEEE Transactions on Magnetics, 2007, 43, 2100-2102.	2.1	1
157	Parametric Optimization of Tape-burnish Process for Perpendicular Recording Media of Hard Disk Drive. , 2006, , .		0
158	Novel Approach to Reduce Grain Size in CoCrPt-Oxide Perpendicular Recording Media. , 2006, , .		0
159	Novel approaches to high-density perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2006, 303, 287-291.	2.3	15
160	Textured growth of CoFe for soft underlayers in CoCrPt:SiO ₂ perpendicular magnetic recording media. Journal of Magnetism and Magnetic Materials, 2006, 303, e152-e155.	2.3	13
161	Effect of cobalt doping concentration on the structural and magnetic properties of Fe ₃ O ₄ . Thin Solid Films, 2006, 505, 45-49.	1.8	10
162	Investigations on nano-structured perpendicular recording media for high density data storage. Thin Solid Films, 2006, 505, 71-76.	1.8	1

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163	Nano-scratch resistance study of nitrogenated amorphous carbon films prepared by unbalanced magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2006, 303, e115-e119.	2.3	4
164	Influence of gas pressures on the magnetic properties and recording performance of CoCrPt/SiO ₂ perpendicular media. Journal of Magnetism and Magnetic Materials, 2006, 303, e145-e151.	2.3	8
165	Lubrication for Heat-Assisted Magnetic Recording Media. IEEE Transactions on Magnetics, 2006, 42, 2546-2548.	2.1	32
166	CoCrPt/SiO ₂ Perpendicular Recording Media With a Crystalline Soft Underlayer. IEEE Transactions on Magnetics, 2006, 42, 2369-2371.	2.1	11
167	Palladium-based intermediate layers for CoCrPt/SiO ₂ perpendicular recording media. Applied Physics Letters, 2006, 88, 092506.	3.3	24
168	Advanced perpendicular recording media structure with a magnetic intermediate layer. Applied Physics Letters, 2006, 88, 092501.	3.3	21
169	Grain size reduction in CoCrPt/SiO ₂ perpendicular recording media with oxide-based intermediate layers. Applied Physics Letters, 2006, 89, 162504.	3.3	44
170	Lubrication for Heat Assisted Magnetic Recording Media. , 2006, , .		4
171	CoCrPt-SiO ₂ Perpendicular Recording Media with a Crystalline Soft Underlayer. , 2006, , .		4
172	A Novel Perpendicular Recording Medium with a Magnetic Intermediate Layer. , 2006, , .		0
173	Investigations on annealed Ni/P in Al/Mg/Ni/P substrates as soft underlayer for perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2005, 287, 271-275.	2.3	3
174	Magnetotransport properties of nano-constriction array in La _{0.67} Sr _{0.33} MnO ₃ film. European Physical Journal B, 2005, 48, 37-40.	1.5	4
175	Stacked CoCrPt:SiO ₂ /sub 2/ Layers for perpendicular recording media. IEEE Transactions on Magnetics, 2005, 41, 3190-3192.	2.1	23
176	A study of orientation ratio in longitudinal magnetic thin-film media on plasma-treated textured substrates. Applied Physics A: Materials Science and Processing, 2005, 81, 147-150.	2.3	0
177	Influence of dual-Ru intermediate layers on magnetic properties and recording performance of CoCrPt/SiO ₂ perpendicular recording media. Applied Physics Letters, 2005, 87, 222503.	3.3	75
178	FePt and Fe nanocomposite by annealing self-assembled FePt nanoparticles. Journal of Applied Physics, 2004, 95, 6735-6737.	2.5	25
179	Synthesis and magnetic behavior of self-assembled Co nanorods and nanoballs. Journal of Applied Physics, 2004, 95, 6801-6803.	2.5	15
180	Magnetization and Thermal Stability Studies on Laminated Antiferromagnetically Coupled (LAC) Media. ChemInform, 2003, 34, no.	0.0	0

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181	Dynamic orientation ratio in longitudinal recording media. Applied Physics Letters, 2003, 83, 1175-1177.	3.3	2
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