

James A Bain

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161
papers

2,319
citations

26
h-index

39
g-index

168
ext. papers

2,602
ext. citations

3.2
avg, IF

4.77
L-index

#	Paper	IF	Citations
161	Influence of stress and texture on soft magnetic properties of thin films. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3501-3520	2	99
160	Single-chip computers with microelectromechanical systems-based magnetic memory (invited). <i>Journal of Applied Physics</i> , 2000 , 87, 6680-6685	2.5	78
159	Oxygen Vacancy Creation, Drift, and Aggregation in TiO ₂ -Based Resistive Switches at Low Temperature and Voltage. <i>Advanced Functional Materials</i> , 2015 , 25, 2876-2883	15.6	72
158	Elastic strains and coherency stresses in Mo/Ni multilayers. <i>Physical Review B</i> , 1991 , 44, 1184-1192	3.3	67
157	Imaging of quantized magnetostatic modes using spatially resolved ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2002 , 91, 8034	2.5	66
156	Electronic Instabilities Leading to Electroformation of Binary Metal Oxide-based Resistive Switches. <i>Advanced Functional Materials</i> , 2014 , 24, 5522-5529	15.6	59
155	Imaging of optical field confinement in ridge waveguides fabricated on very-small-aperture laser. <i>Applied Physics Letters</i> , 2003 , 83, 3245-3247	3.4	58
154	High frequency initial permeability of NiFe and FeAlN. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1438-1440		50
153	Computational investigations into the operating window for memristive devices based on homogeneous ionic motion. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 877-883	2.6	46
152	Application of Image Processing to Characterize Patterning Noise in Self-Assembled Nano-Masks for Bit-Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3523-3526	2	41
151	. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2015 , 1, 58-66	2.4	40
150	Ridge waveguide as a near-field optical source. <i>Applied Physics Letters</i> , 2003 , 83, 4474-4476	3.4	40
149	Considerations in the design of probe heads for 100 Gbit/in ² recording density. <i>IEEE Transactions on Magnetics</i> , 1997 , 33, 2893-2895	2	39
148	Two-Dimensional Pulse Response and Media Noise Modeling for Bit-Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3789-3792	2	39
147	Crystallographic anisotropy in thin film magnetic recording media analyzed with x-ray diffraction. <i>Journal of Applied Physics</i> , 1993 , 73, 7591-7598	2.5	37
146	Enhancement of Thermal Conductance at Metal-Dielectric Interfaces Using Subnanometer Metal Adhesion Layers. <i>Physical Review Applied</i> , 2016 , 5,	4.3	34
145	Three-Terminal Probe Reconfigurable Phase-Change Material Switches. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 312-320	2.9	34

144	Spontaneous current constriction in threshold switching devices. <i>Nature Communications</i> , 2019 , 10, 1628	7.4	33
143	In situ TEM imaging of defect dynamics under electrical bias in resistive switching rutile-TiO ₂ . <i>Microscopy and Microanalysis</i> , 2015 , 21, 140-53	0.5	33
142	Low resistance, high dynamic range reconfigurable phase change switch for radio frequency applications. <i>Applied Physics Letters</i> , 2010 , 97, 183506	3.4	32
141	Acousto-optical modulation of thin film lithium niobate waveguide devices. <i>Photonics Research</i> , 2019 , 7, 1003	6	32
140	Thermal Williams-Comstock model for predicting transition lengths in a heat-assisted magnetic recording system. <i>IEEE Transactions on Magnetism</i> , 2004 , 40, 137-147	2	31
139	Characterization of heat-assisted magnetic probe recording on CoNi/Pt multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 305, 16-23	2.8	29
138	Electro-Thermal Model of Threshold Switching in TaO-Based Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11704-11710	9.5	28
137	Thermometry of Filamentary RRAM Devices. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 2972-2977	2.9	27
136	Transient Thermometry and High-Resolution Transmission Electron Microscopy Analysis of Filamentary Resistive Switches. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20176-84	9.5	27
135	Measurement of Ga implantation profiles in the sidewall and bottom of focused-ion-beam-etched structures. <i>Applied Physics Letters</i> , 2004 , 84, 3331-3333	3.4	25
134	Impact of Joule heating on the microstructure of nanoscale TiO ₂ resistive switching devices. <i>Journal of Applied Physics</i> , 2013 , 113, 163703	2.5	24
133	Transient characterization of the electroforming process in TiO ₂ based resistive switching devices. <i>Applied Physics Letters</i> , 2013 , 102, 023507	3.4	23
132	Electrode influence on the transport through SrRuO ₃ /Ir-doped SrZrO ₃ /metal junctions. <i>Applied Physics Letters</i> , 2007 , 90, 202107	3.4	23
131	A model for mark size dependence on field emission voltage in heat-assisted magnetic probe recording on CoNi/Pt multilayers. <i>IEEE Transactions on Magnetism</i> , 2004 , 40, 2549-2551	2	23
130	Separation of contributions to spin valve interlayer exchange coupling field by temperature dependent coupling field measurements. <i>Journal of Applied Physics</i> , 2002 , 91, 7113	2.5	23
129	Stable Metallic Enrichment in Conductive Filaments in TaO _x -Based Resistive Switches Arising from Competing Diffusive Fluxes. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800954	6.4	22
128	12.5 THz Fco GeTe Inline Phase-Change Switch Technology for Reconfigurable RF and Switching Applications 2014 ,		22
127	Formation of the Conducting Filament in TaO _x -Resistive Switching Devices by Thermal-Gradient-Induced Cation Accumulation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23187-23197	9.5	21

126	Dislocation impact on resistive switching in single-crystal SrTiO ₃ . <i>Journal of Applied Physics</i> , 2013 , 113, 234510	2.5	21
125	MFM quantification of magnetic fields generated by ultra-small single pole perpendicular heads. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 2030-2032	2	21
124	Mechanism of localized electrical conduction at the onset of electroforming in TiO ₂ based resistive switching devices. <i>Applied Physics Letters</i> , 2014 , 104, 113510	3.4	19
123	Switching dynamics of TaO _x -based threshold switching devices. <i>Journal of Applied Physics</i> , 2018 , 123, 115105	2.5	18
122	A Phase-Change Via-Reconfigurable CMOS δ LC δ VCO. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 3979-3988	2.9	18
121	Scaling behavior of oxide-based electrothermal threshold switching devices. <i>Nanoscale</i> , 2017 , 9, 14139-14148	1.4	18
120	Dynamics of electroforming in binary metal oxide-based resistive switching memory. <i>Journal of Applied Physics</i> , 2015 , 118, 114903	2.5	18
119	Focused-ion-beam induced grain growth in magnetic materials for recording heads. <i>Journal of Applied Physics</i> , 2002 , 91, 6830	2.5	18
118	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 300-306	2	18
117	. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3857-3862	2.9	17
116	Elimination of high transient currents and electrode damage during electroformation of TiO ₂ -based resistive switching devices. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 395101	3	17
115	Dependence of thermomagnetic mark size on applied STM voltage in Co-Pt multilayers. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1895-1897	2	17
114	Recording layer influence on the dynamics of a soft underlayer. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1994-1996	2	17
113	Micromagnetic simulation of an ultrasmall single-pole perpendicular write head. <i>Journal of Applied Physics</i> , 2000 , 87, 6636-6638	2.5	17
112	Dynamic domain motion of thermal-magnetically formed marks on CoNiBt multilayers. <i>Journal of Applied Physics</i> , 2006 , 100, 053901	2.5	16
111	Thin film tape recording heads with high moment FeAlN poles. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 166-171	2	16
110	A Reconfigurable Dual-Frequency Narrowband CMOS LNA Using Phase-Change RF Switches. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4689-4702	4.1	15
109	Evanescent Coupling Between Dielectric and Plasmonic Waveguides for HAMR Applications. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2364-2367	2	15

108	Spin transfer torque switching of magnetic tunnel junctions using a conductive atomic force microscope. <i>Applied Physics Letters</i> , 2009 , 95, 132510	3.4	15
107	Investigating Pattern Transfer in the Small-Gap Regime Using Electron-Beam Stabilized Nanoparticle Array Etch Masks. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2307-2310	2	15
106	Fabrication of nanomagnetic probes via focused ion beam etching and deposition. <i>Nanotechnology</i> , 2002 , 13, 619-622	3.4	15
105	The effect of substrate temperature on the magnetic properties of FeAlN thin films for recording heads. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 2703-2705	2	15
104	Effect of stress on stripe domain onset in sputtered FeAlN and CoFe films. <i>Journal of Applied Physics</i> , 2002 , 91, 7830	2.5	14
103	Micromagnetic simulation of effect of stress-induced anisotropy in soft magnetic thin films. <i>Journal of Applied Physics</i> , 2004 , 95, 6864-6866	2.5	13
102	The effect of surface topography on the soft magnetic properties of FeAlN films. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 2700-2702	2	13
101	The effect of nitrogen partitioning on the magnetic properties of FeAlN films. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 4541-4543	2	13
100	Experimental estimates of in-plane thermal conductivity in FePt-C granular thin film heat assisted magnetic recording media using a model layered system. <i>Applied Physics Letters</i> , 2013 , 103, 131907	3.4	12
99	Band alignment between GeTe and SiO ₂ /metals for characterization of junctions in nonvolatile resistance change elements. <i>Applied Physics Letters</i> , 2011 , 98, 232104	3.4	12
98	Local degradation of magnetic properties in magnetic thin films irradiated by Ga ⁺ /sup +/ focused-ion-beams. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2237-2239	2	12
97	The influence of media optical properties on the efficiency of optical power delivery for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , 2011 , 109, 07B775	2.5	11
96	Thermographic analysis of localized conductive channels in bipolar resistive switching devices. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 185103	3	11
95	Effects of substrate bias on CoCrPt-SiO ₂ magnetic recording media. <i>Journal of Applied Physics</i> , 2006 , 99, 08G910	2.5	11
94	Use of bias sputtering to enhance decoupling in oxide composite perpendicular recording media. <i>Applied Physics Letters</i> , 2007 , 90, 252511	3.4	11
93	Magnetization reduction due to oxygen contamination of bias sputtered Fe/sub 35/Co/sub 65/ thin films. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3030-3032	2	11
92	Origin and Optimization of RF Power Handling Limitations in Inline Phase-Change Switches. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3934-3942	2.9	10
91	Controlling the magnetic properties of CoCrPt thin films by means of thin hexagonal-close-packed intermediate layers. <i>Journal of Applied Physics</i> , 2002 , 91, 7065	2.5	10

90	Thermal-gradient-driven elemental segregation in Ge ₂ Sb ₂ Te ₅ phase change memory cells. <i>Applied Physics Letters</i> , 2019 , 114, 163507	3.4	9
89	ON-state evolution in lateral and vertical VO threshold switching devices. <i>Nanotechnology</i> , 2017 , 28, 405201	3.4	9
88	Design Criteria in Sizing Phase-Change RF Switches. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4531-4540	4.1	9
87	A 3/5 GHz reconfigurable CMOS low-noise amplifier integrated with a four-terminal phase-change RF switch 2015 ,		9
86	High frequency susceptibility of closure domain structures calculated using micromagnetic modeling. <i>Journal of Applied Physics</i> , 2006 , 99, 08B708	2.5	9
85	Thermal limits on field alignment of nanoparticle FePt media. <i>Applied Physics Letters</i> , 2006 , 88, 242508	3.4	9
84	The effect of stress-induced anisotropy in patterned FeCo thin-film structures. <i>Journal of Applied Physics</i> , 2006 , 99, 08B706	2.5	9
83	Field localization in very small aperture lasers studied by apertureless near-field microscopy. <i>Applied Optics</i> , 2006 , 45, 6192-7	1.7	9
82	Detailed modeling of temperature rise in giant magnetoresistive sensor during an electrostatic discharge event. <i>Journal of Applied Physics</i> , 2004 , 95, 6780-6782	2.5	9
81	Thin-film recording media on flexible substrates for tape applications. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 654-659	2	9
80	High frequency dynamics of the soft underlayer in perpendicular recording system. <i>Journal of Applied Physics</i> , 2002 , 91, 8052	2.5	9
79	Residual stress optimization in FeAlN pole materials. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2536-2538		9
78	High-speed in-situ pulsed thermometry in oxide RRAMs 2014 ,		8
77	Compositionally matched nitrogen-doped Ge ₂ Sb ₂ Te ₅ /Ge ₂ Sb ₂ Te ₅ superlattice-like structures for phase change random access memory. <i>Applied Physics Letters</i> , 2013 , 103, 133507	3.4	8
76	Self-assembled nanoparticle arrays as nanomasks for pattern transfer. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 134001	3	8
75	The effect of external magnetic field on mark size in heat-assisted probe recording on CoNiBt multilayers. <i>Journal of Applied Physics</i> , 2006 , 99, 023902	2.5	8
74	Characterization of very small aperture GaN lasers 2004 ,		8
73	Low temperature electroformation of TaOx-based resistive switching devices. <i>APL Materials</i> , 2016 , 4, 016101	5.7	8

72	Nanoscale thermal transport aspects of heat-assisted magnetic recording devices and materials. <i>MRS Bulletin</i> , 2018 , 43, 112-118	3.2	7
71	Experimental Demonstration of AlN Heat Spreaders for the Monolithic Integration of Inline Phase-Change Switches. <i>IEEE Electron Device Letters</i> , 2018 , 39, 610-613	4.4	7
70	AlN Barriers for Capacitance Reduction in Phase-Change RF Switches. <i>IEEE Electron Device Letters</i> , 2016 , 37, 568-571	4.4	7
69	The role of MFM signal in mark size measurement in probe-based magnetic recording on CoNi/Pt multilayers. <i>Physica B: Condensed Matter</i> , 2007 , 387, 328-332	2.8	7
68	Sub-nanosecond non-Arrhenius magnetic switching in perpendicular multilayers. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 1570-1572	2	7
67	Control of stress and plasma-induced heating during dc magnetron sputtering of permalloy films for microelectromechanical systems. <i>Journal of Applied Physics</i> , 2002 , 91, 6824	2.5	7
66	Temperature overshoot as the cause of physical changes in resistive switching devices during electro-formation. <i>Journal of Applied Physics</i> , 2020 , 127, 235107	2.5	7
65	Analysis of transition shape and adjacent track aging for 1 Tb/in/sup 2/ write head designs. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2576-2578	2	6
64	The application of sputtered thin film in advanced recording tape media. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2404-2406	2	6
63	Use of room-temperature bias sputtering to decrease intergranular coupling in magnetic media deposited on polymeric substrates. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 3616-3618	2	6
62	High coercivity Co-alloy thin films on polymer substrates. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 1640-1642	6	6
61	Dynamics of perpendicular recording heads. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 1376-1378	2	6
60	Kerr imaging of a thin film magnetic transducer to measure thin film head fields. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2761-2763	2	6
59	Electrical and Thermal Dynamics of Self-Oscillations in TaOx-Based Threshold Switching Devices. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 683-691	4	5
58	Magnetoresistance in granular films formed by CoFe and phase change material. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 221-229	2.6	5
57	Modeling of Polarization Effects in Au Nanodots Excited With InAs Quantum Dot Emitters for Use as a HAMR Heat Source. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3560-3563	2	5
56	Aberration Corrected Lorentz Microscopy for Perpendicular Magnetic Recording Media. <i>Microscopy and Microanalysis</i> , 2008 , 14, 832-833	0.5	5
55	Effects of focused-ion-beam irradiation on perpendicular write head performance. <i>Journal of Applied Physics</i> , 2003 , 93, 6459-6461	2.5	5

54	Recording properties of CoCrPt tape media sputter-deposited at room temperature on polymeric substrates. <i>Journal of Applied Physics</i> , 2003 , 93, 7783-7785	2.5	5
53	Real-time observation of sub-nanosecond magnetic switching in perpendicular multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 235, 138-142	2.8	5
52	Dynamic Kerr imaging of soft underlayers for perpendicular recording applications (invited). <i>Journal of Applied Physics</i> , 2002 , 91, 8665	2.5	5
51	Dropout-tolerant read channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2001 , 19, 744-755	14.2	5
50	In situ biasing TEM investigation of resistive switching events in TiO ₂ -based RRAM 2014 ,		4
49	A model of heat transfer in STM-based magnetic recording on CoNi/Pt multilayers. <i>Physica B: Condensed Matter</i> , 2006 , 381, 204-208	2.8	4
48	Magnetically defined domain isolation for studies of nucleation and growth coercivities. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3763-3765	2	4
47	An undergraduate laboratory in magnetic recording fundamentals. <i>IEEE Transactions on Education</i> , 2001 , 44, 224-231	2.1	4
46	Mark shapes in hybrid recording. <i>Applied Physics Letters</i> , 2002 , 80, 1835-1837	3.4	4
45	Experimental test bed for hybrid recording 2002 , 4342, 502		4
44	The role of the gap in single pole heads in perpendicular recording. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1658-1663	2	4
43	Analysis of dropout peakshift in magnetic tape recording. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2170-2172	4	4
42	X-ray analysis of compositional modulation in Co/Pt multilayer films for magneto-optic recording. <i>Journal of Applied Physics</i> , 1993 , 74, 996-1000	2.5	4
41	Extraction of Elastooptic Coefficient of Thin-Film Arsenic Trisulfide Using a Mach-Zehnder Acoustooptic Modulator on Lithium Niobate. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2053-2059	4	4
40	Evolution of the conductive filament with cycling in TaO _x -based resistive switching devices. <i>Journal of Applied Physics</i> , 2020 , 128, 194501	2.5	4
39	Locally Rewritable Codes for Resistive Memories. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2470-2485	14.2	4
38	Magnetically reconfigurable pixelated antenna. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 2348-2353	4.2	3
37	A Split-Pole-Gapped NFT Write Head Design for Transition Curvature Reduction in Heat-Assisted Magnetic Recording. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	3

36	Fabrication and Recording of Bit Patterned Media Prepared by Rotary Stage Electron Beam Lithography. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2656-2659	2	3
35	A Method for Simultaneous Position and Timing Error Detection for Bit-Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3749-3752	2	3
34	Magnetic Decay at Elevated Temperature Relevant to Heat-Assisted Magnetic Recording. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 883-888	2	3
33	A reactive ion milling process for patterning narrow track iron nitride recording head poles at the wafer level. <i>IEEE Transactions on Magnetics</i> , 1997 , 33, 2830-2832	2	3
32	Co Alloy- SiO_2 Granular-Type Longitudinal Media for Sputtered Tape Applications. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3497-3501	2	3
31	Laser Diode Active Height Control for Near Field Optical Storage. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 1193-1196	1.4	3
30	Effects of polymeric substrate roughness on head-medium spacing and recording properties of sputtered magnetic tape. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2529-2533	2	3
29	Multi-tapped magnetoresistive heads for magnetic tape tracking servo. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1904-1906	2	3
28	Limitations to track following imposed by position error signal SNR using a multi-tapped magnetoresistive servo head. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 740-745	2	3
27	Pattern transfer with stabilized nanoparticle etch masks. <i>Nanotechnology</i> , 2013 , 24, 085303	3.4	2
26	Characterization of Conducting Atomic Force Microscopy for Use With Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1741-1744	2	2
25	Enhancing CMOS Using Nanoelectronic Devices: A Perspective on Hybrid Integrated Systems. <i>Proceedings of the IEEE</i> , 2010 , 98, 2061-2075	14.3	2
24	Heat-assisted magnetic probe recording on a granular CoNi/Pt multilayered film. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 2485-2487	3	2
23	A study of near-field aperture geometry effects on very small aperture lasers (VSAL) 2003 ,		2
22	MAMMOS read-only memory 2004 , 5380, 163		2
21	Prototype mode index lens for heat-assisted magnetic recording 2004 ,		2
20	Surface nitrogen concentration dependence of the nitrogen incorporation in reactively sputtered Fe _x N films. <i>Journal of Applied Physics</i> , 2002 , 91, 6827	2.5	2
19	In-Situ Observation of The Initial Stages of Co (0001) Epitaxy on Pt (111) Using Grazing Incidence X-Ray Diffraction. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 312, 291		2

18	Structural Characterization of Pt/Co Multilayers for Magneto-optic Recording Using X-Ray Diffraction. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 313, 799		2
17	The Role of STM Tip Shape in Heat Assisted Magnetic Probe Recording on CONI/PT Film 2004 ,		2
16	Effects of High Current Density at Nanoscale Point Contacts 2008 ,		2
15	Acousto-Optic Gyroscope with Improved Sensitivity and 100 second Stability in a Small Form Factor 2019 ,		1
14	Investigation of tip current and normal force measured simultaneously during local oxidation of titanium using dual-mode scanning probe microscopy. <i>Micro and Nano Letters</i> , 2014 , 9, 332-336	0.9	1
13	A Process for Transferring and Patterning InAs Quantum Dot Optical Gain Media for HAMR Near Field Optical Sources. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3564-3567	2	1
12	Comparison of electric field dependent activation energy for electroformation in TaOx and TiOx based RRAMs 2013 ,		1
11	2015 ,		1
10	Extendibility of traditional perpendicular magnetic recording for hard disk drives. <i>Journal of Applied Physics</i> , 2011 , 109, 07B774	2.5	1
9	Simultaneous PES Generation, Timing Recovery, and Multi-Track Read on Patterned Media: Concept and Performance. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 825-829	2	1
8	Improvement of preferred orientation of NiAl/CrMn underlayers deposited on prebaked tape substrates. <i>Journal of Applied Physics</i> , 2002 , 91, 8736	2.5	1
7	Transient thermometry and HRTEM analysis of RRAM thermal dynamics during switching and failure 2016 ,		1
6	Optical Feedback Height Control System Using Laser Diode Sensor for Near-Field Data Storage Applications. <i>Journal of Lightwave Technology</i> , 2007 , 25, 3704-3709	4	0
5	Impact of straightened thermal profiles generated by gapped near field transducers on HAMR SNR. <i>AIP Advances</i> , 2020 , 10, 015326	1.5	
4	Susceptibility of magnetic information storage to power frequency magnetic fields. <i>IEEE Electromagnetic Compatibility Magazine</i> , 2013 , 2, 59-67	0.4	
3	HAMR Adjacent Track Stability in the Presence of a Medium Curie Temperature Distribution. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2462-2465	2	
2	Characterization of refraction at a waveguide step for fabrication of mode index lenses 2004 , 5380, 697		
1	Simulation of a Thermally Efficient Heat-Assisted Magnetic Recording Ridge Waveguide NFT on an ALN Heat Sink. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1		2

