Yasushi Kanai

List of Publications by Year
in descending order

215	1,475	516710 16	501196 28
papers	citations	h-index	g-index

215	215	215	545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shingled Recording for 2â€“3 Tbit/in^2. IEEE Transactions on Magnetics, 2009, 45, 3823-3829.	2.1	108
2	Finite-Element and Micromagnetic Modeling of Write Heads for Shingled Recording. IEEE Transactions on Magnetics, 2010, 46, 715-721.	2.1	56
3	Read/Write Channel Modeling and Two-Dimensional Neural Network Equalization for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2011, 47, 3558-3561.	2.1	55
4	A numerical study on the measurement region of an open-ended coaxial probe used for complex permittivity measurement. IEEE Transactions on Magnetics, 2001, 37, 3311-3314.	2.1	46
5	Recording field analysis of narrow-track SPT head with side shields, tapered main pole, and tapered return path for 1 Tb/in/sup 2/. IEEE Transactions on Magnetics, 2003, 39, 1955-1960.	2.1	45
6	Magnetic Recording in Patterned Media at 5â€“10 Tb/in^{2}. IEEE Transactions on Magnetics, 2008, 44, 3430-3433.	2.1	32
7	Spin Torque Oscillator With Negative Magnetic Anisotropy Materials for MAMR. IEEE Transactions on Magnetics, 2010, 46, 2466-2469.	2.1	31
8	Performance Evaluation of Neuro-ITI Canceller Using a Modified Writing Process for TDMR. IEICE Transactions on Electronics, 2013, E96.C, 1504-1507.	0.6	26
9	Multiple Layer Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2017, 53, 1-10.	2.1	25
10	Modeling and Simulation of the Writing Process on Bit-Patterned Perpendicular Media. IEEE Transactions on Magnetics, 2008, 44, 3423-3429.	2.1	24
11	Modeling of Writing Process for Two-Dimensional Magnetic Recording and Performance Evaluation of Two-Dimensional Neural Network Equalizer. IEEE Transactions on Magnetics, 2012, 48, 4586-4589.	2.1	24
12	Magnetization switching in energy assisted recording. IEEE Transactions on Magnetics, 2012, 48, 1794-1800.	2.1	23
13	The phase velocity error and stability condition of the three-dimensional nonstandard FDTD method. IEEE Transactions on Magnetics, 2002, 38, 661-664.	2.1	20
14	A single-pole-type head design for 400 Gb/in/sup 2/ recording. IEEE Transactions on Magnetics, 2005, 41, 687-695.	2.1	19
15	Simplified Neural Network Equalizer With Noise Whitening Function for GPRML System. IEEE Transactions on Magnetics, 2008, 44, 3777-3780.	2.1	19
16	Optimization of Bit Geometry and Multi-Reader Geometry for Two-Dimensional Magnetic Recording. IEEE Transactions on Magnetics, 2016, 52, 1-7.	2.1	19
17	Phase velocity errors of the nonstandard FDTD method and comparison with other high-accuracy FDTD methods. IEEE Transactions on Magnetics, 2003, 39, 2125-2128.	2.1	17
18	Landauâ€“Lifshitzâ€“Gilbert Micromagnetic Analysis of Single-Pole-Type Write Head for Perpendicular Magnetic Recording Using Full-FFT Program on PC Cluster System. IEEE Transactions on Magnetics, 2008, 44, 1602-1605.	2.1	16

#	Article	IF	Citations
19	Analysis of a hyperthermic treatment using a reentrant resonant cavity applicator for a heterogeneous model with blood flow. IEEE Transactions on Magnetics, 1997, 33, 2175-2178.	2.1	15
20	Thermally Assisted Magnetic Recording at 4 Tbit/in^{2}. IEEE Transactions on Magnetics, 2013, 49, 2665-2670.	2.1	15
21	A Study of TDMR Signal Processing Opportunities Based on Quasi-Micromagnetic Simulations. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	15
22	Modelling of heat assisted magnetic recording with the Landau-Lifshitz-Bloch equation and Brillouin functions. Journal of Applied Physics, 2015, 117, .	2.5	15
23	Suppression of ITI by array head reading and 2D-equalization. AIP Advances, 2017, 7, .	1.3	15
24	Analysis of a hyperthermic treatment in a reentrant resonant cavity applicator by solving time-dependent electromagnetic-heat transfer equations. IEEE Transactions on Magnetics, 1996, 32, 1661-1664.	2.1	14
25	Microwave-assisted magnetic recording simulation on exchange-coupled composite medium. Journal of Applied Physics, 2012, 111, 07B711.	2.5	14
26	Areal Density Capability of Dual-Structure Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	14
27	Write field calculation for a narrow-track, single-pole head with a thin underlayer of perpendicular medium. IEEE Transactions on Magnetics, 2002, 38, 169-174.	2.1	13
28	Micromagnetic study on microwave-assisted magnetic recording in perpendicular medium with intergrain exchange coupling. Journal of Applied Physics, 2011, 109, 123912.	2.5	13
29	The Dynamics of Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	13
30	Precise Modeling of Magnetically Biased Graphene Through a Recursive Convolutional FDTD Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
31	Analysis and design of a metal-in-gap head for rigid disk files. IEEE Transactions on Magnetics, 1988, 24, 2623-2625.	2.1	12
32	Automatic mesh generation for 3D electromagnetic field analysis by FD-TD method. IEEE Transactions on Magnetics, 1998, 34, 3383-3386.	2.1	12
33	The Nonstandard FDTD Method Using a Complex Formulation. IEEE Transactions on Magnetics, 2004, 40, 1448-1451.	2.1	12
34	Micromagnetic Simulations of Perpendicular Single-Pole-Type Head for Various Pole-Tip Structures. IEEE Transactions on Magnetics, 2007, 43, 1665-1668.	2.1	12
35	Effect of Reader Sensitivity Rotation in TDMR With Head Skew. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	12
36	Finite-element model analysis of single-pole-type head for 1 Tbit/in/sup 2/. IEEE Transactions on Magnetics, 2003, 39, 2405-2407.	2.1	11

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37	Discrete track media for 600Gbitsâˆ•in2 recording. Journal of Applied Physics, 2006, 99, 08F903.	2.5	11
38	Shingled Magnetic Recording on Bit Patterned Media. IEEE Transactions on Magnetics, 2010, 46, 1460-1463.	2.1	11
39	Coefficients of Finite Difference Operator for Rectangular Cell NS-FDTD Method. IEEE Transactions on Antennas and Propagation, 2011, 59, 206-213.	5.1	11
40	Analysis and design of shingled magnetic recording systems. Journal of Applied Physics, 2012, 111, 07B716.	2.5	11
41	Micromagnetic Model Analysis of Spin-Transfer Torque Oscillator and Write Heads for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2017, 53, 1-11.	2.1	11
42	A Study on Iterative Decoding With LLR Modulator Using Neural Network in SMR System. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	11
43	A Study on Iterative Decoding With LLR Modulator by Neural Network Using Adjacent Track Information in SMR System. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	11
44	A three-dimensional reconstruction of stray magnetic fields of a magnetic head by electron beam tomography.. Journal of the Magnetics Society of Japan, 1991, 15, 145-150.	0.4	11
45	Influence of head fields and media properties on transitions of magnetization reversals on thin film disk.. Journal of the Magnetics Society of Japan, 1991, 15, 151-154.	0.4	11
46	Resonant frequency analysis of reentrant resonant cavity applicator by using FEM and FD-TD method. IEEE Transactions on Magnetics, 2000, 36, 1750-1753.	2.1	10
47	Analysis and development of a radio-frequency rectangular resonant cavity applicator with multiple antennas for a hyperthermic treatment. IEEE Transactions on Magnetics, 2005, 41, 1880-1883.	2.1	9
48	Micromagnetic recording field analysis of fast-switching single-pole-type heads for bit-patterned media. Journal of Magnetism and Magnetic Materials, 2008, 320, e287-e290.	2.3	9
49	Advanced Optimization of Standard Head Model With Higher Writing Field and Higher Field Gradient Using 3-D ON/OFF Method. IEEE Transactions on Magnetics, 2008, 44, 966-969.	2.1	9
50	Influence of Writing ITI Effects in Shingled Magnetic Recording. IEEE Transactions on Magnetics, 2013, 49, 3814-3817.	2.1	9
51	Nonbinary LDPC Coding and Iterative Decoding System With 2-D Equalizer for TDMR R/W Channel Using Discrete Voronoi Model. IEEE Transactions on Magnetics, 2013, 49, 662-667.	2.1	9
52	Accuracy-Adjustable Nonstandard LOD-FDTD Schemes for the Design of Carbon Nanotube Interconnects and Nanocomposite EMC Shields. IEEE Transactions on Magnetics, 2013, 49, 1821-1824.	2.1	9
53	Performance Evaluation of TDMR R/W Channel With Head Skew by LDPC Coding and Iterative Decoding System. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
54	A Generalized Domain-Decomposition Stochastic FDTD Technique for Complex Nanomaterial and Graphene Structures. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9

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55	Micromagnetic Model Simulations Considering Write Head, Spinâ€“Torque Oscillator, and Double-Layered Medium Altogether. IEEE Transactions on Magnetics, 2019, 55, 1-13.	2.1	9
56	A Comparative Study of Perpendicular Media. IEEE Transactions on Magnetics, 2007, 43, 2118-2120.	2.1	8
57	Nonstandard FDTD Method for Wideband Analysis. IEEE Transactions on Antennas and Propagation, 2009, 57, 2386-2396.	5.1	8
58	A statistical model of write-errors in bit patterned media. Journal of Applied Physics, 2012, 111, 053926.	2.5	8
59	Shingled Thermally Assisted Magnetic Recording for 8 Tbit/in<inline-formula> <tex-math notation="TeX">(^{{2}}) </tex-math></inline-formula>. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	8
60	Two-Track Reading With a Wide-Track Reader for Shingled Track Recording. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
61	Micromagnetic model analysis of integrated single-pole-type head with tilted spin-torque oscillator for high-frequency microwave-assisted magnetic recording. Journal of Applied Physics, 2015, 117, 17C503.	2.5	8
62	Micromagnetic Simulation of Spin-Torque Oscillator for Microwave-Assisted Magnetic Recordingâ€”Interaction Between Write Head and STO and Optimum Injected Current. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
63	Thin film write head field analysis using a benchmark problem. IEEE Transactions on Magnetics, 2000, 36, 1784-1787.	2.1	7
64	Numerical study of a narrow-track single-pole head useful for GHz response and large field strength requirements. IEEE Transactions on Magnetics, 2001, 37, 1357-1359.	2.1	7
65	Micromagnetic Recording Field Analysis of a Single-Pole-Type Head for 1â€“2 ${hbox {Tbit/in}}^{2}$. IEEE Transactions on Magnetics, 2008, 44, 3609-3612.	2.1	7
66	Micromagnetic Analysis of Shielded Write Heads Using Symmetric Multiprocessing Systems. IEEE Transactions on Magnetics, 2010, 46, 3337-3340.	2.1	7
67	Skew angle effects in shingled magnetic recording system with double/triple reader head array. Journal of Applied Physics, 2014, 115, 17B753.	2.5	7
68	A Study on Optimal BAR in Array Head Reading. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
69	Improvement of Iterative Decoding With LLR Modulator by Neural Network Using Magnetic Transition Information in SMR System. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	7
70	Optimization of Dual-Structure Recording Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2019, , 1-5.	2.1	7
71	Visualization and 3-D measurement of local SAR using a gel phantom. , 0, , .		6
72	Trailing Shield Head Recording in Discrete Track Media. IEEE Transactions on Magnetics, 2006, 42, 2408-2410.	2.1	6

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73	Overlap Algorithm for the Nonstandard FDTD Method Using Nonuniform Mesh. IEEE Transactions on Magnetics, 2007, 43, 1317-1320.	2.1	6
74	Simulations of recording media for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.gif" overflow="scroll"><mml:mn>1</mml:mn><mml:mspace width="0.16em" /><mml:mi>Tb</mml:mi><mml:mo>/</mml:mo><mml:msup><mml:mrow><mml:mi>in</mml:mi></mml:mrow><mml:mrow><mml:mn> Journal of Magnetism and Magnetic Materials, 2008, 320, 2889-2893.	2.3	6
75	Scattering Analysis of Large-Scale Coated Cavity Using the Complex Nonstandard FDTD Method With Surface Impedance Boundary Condition. IEEE Transactions on Magnetics, 2009, 45, 1296-1299.	2.1	6
76	Optimal Coefficients of the Spatial Finite Difference Operator for the Complex Nonstandard Finite Difference Time-Domain Method. IEEE Transactions on Magnetics, 2011, 47, 1498-1501.	2.1	6
77	Split-Pole Write Head for Thermally Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2011, 47, 2375-2378.	2.1	6
78	A study on modeling of the writing process and two-dimensional neural network equalization for two-dimensional magnetic recording. Journal of Applied Physics, 2012, 111, 07B727.	2.5	6
79	Micromagnetic Model Analysis of Planar Type Recording Write Heads for High Transfer-Rate Recording. IEEE Transactions on Magnetics, 2012, 48, 1723-1730.	2.1	6
80	Optimal Design of MAMR and HAMR by Applying Response Surface Methodology. IEEE Transactions on Magnetics, 2013, 49, 2719-2722.	2.1	6
81	High Frequency Recording With Shielded Planar Type Heads. IEEE Transactions on Magnetics, 2013, 49, 3806-3809.	2.1	6
82	Micromagnetic model analysis of high frequency heat-assisted magnetic recording. Journal of Applied Physics, 2015, 117, .	2.5	6
83	A 4-D Subgrid Scheme for the NS-FDTD Technique Using the CNS-FDTD Algorithm With the Shepard Method and a Gaussian Smoothing Filter. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
84	Antiferromagnetically Coupled Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2018, 54, 1-11.	2.1	6
85	Effect of Magnetostatic Interactions between the Spin-Torque Oscillator and the SPT Writer on the Oscillation Characteristics of the Spin-Torque Oscillator. IEICE Transactions on Electronics, 2013, E96.C, 1484-1489.	0.6	6
86	Fast and stable non-linear converging method. IEEE Transactions on Magnetics, 1987, 23, 3290-3292.	2.1	5
87	New formulation of finite-element method with gauge condition for three-dimensional magnetic field analysis. IEEE Transactions on Magnetics, 1988, 24, 3123-3125.	2.1	5
88	Modeling of magnetic recording heads for 2-D and 3-D finite element analysis. IEEE Transactions on Magnetics, 1994, 30, 2948-2951.	2.1	5
89	FDTD analysis of microwave circuits using edge condition. IEEE Transactions on Magnetics, 2002, 38, 705-708.	2.1	5
90	New structured planar write head for 100 Gb/in/sup 2/ and beyond. IEEE Transactions on Magnetics, 2002, 38, 2210-2212.	2.1	5

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91	Single-pole-type head showing a large recording field suitable for 1Tbpsi with discrete-track media. Journal of Magnetism and Magnetic Materials, 2005, 287, 362-366.	2.3	5
92	Optimisation of bit patterned media for 1Tb/in2. Journal of Magnetism and Magnetic Materials, 2008, 320, 3092-3095.	2.3	5
93	High speed magnetisation reversal in heat-assisted magnetic recording. Journal of Applied Physics, 2012, 111, .	2.5	5
94	A Stability Improvement Technique Using PML Condition for the Three-Dimensional Nonuniform Mesh Nonstandard FDTD Method. IEEE Transactions on Magnetics, 2013, 49, 1569-1572.	2.1	5
95	Model Analysis of Tilted Spin-Torque Oscillator With Magnetic Write Head for Shingled Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	5
96	Bit error rate performance for head skew angle in shingled magnetic recording using dual reader heads. Journal of Applied Physics, 2015, 117, 17A901.	2.5	5
97	Microwave-assisted shingled magnetic recording simulations on an exchange-coupled composite medium. Journal of Magnetism and Magnetic Materials, 2016, 416, 188-193.	2.3	5
98	Microwave-Assisted Magnetic Recording on Dual-Thickness and Dual-Layer Bit-Patterned Media. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
99	A Study on Relationship Between Recording Pattern and Decoding Reliability in SMR. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
100	Optimizing Dual-Layer Recording Using Antiferromagnetic Exchange Coupling. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
101	Write field analysis of narrow-track SPT head for GHz response. Journal of Magnetism and Magnetic Materials, 2001, 235, 368-374.	2.3	4
102	Accuracy improvement in permittivity measurement of construction materials by use of a model of the standing wave method in free space. , 0, , .		4
103	Simulations of perpendicular media for 400 Gb/in/sup 2/. IEEE Transactions on Magnetics, 2005, 41, 713-718.	2.1	4
104	Characterization of a 2 ${hbox {Tbit/in}}^{2}$ Patterned Media Recording System. IEEE Transactions on Magnetics, 2008, 44, 3434-3437.	2.1	4
105	Investigation on Magnetic Fields From Field-Generating Layer in MAMR. IEEE Transactions on Magnetics, 2008, 44, 3408-3411.	2.1	4
106	A 3-D Interlayer-Based FDTD/NS-FDTD Connection Technique Combined With a Stable Subgrid Model for Low-Cost Simulations. IEEE Transactions on Magnetics, 2014, 50, 153-156.	2.1	4
107	Areal Density Prediction for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
108	An Enhanced Total-Field/Scattered-Field Scheme for the 3-D Nonstandard Finite-Difference Time-Domain Method. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	4

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109	Optimisation of applied field pulses for microwave assisted magnetic recording. AIP Advances, 2017, 7, .	1.3	4
110	Micromagnetic Model Analysis of Spin-Torque Oscillator (STO) Integrated Into Recording Head for Microwave-Assisted Magnetic Recordingâ€"Oscillation of STO Versus Rise Time of In-Gap Field. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	4
111	A Study on Neural Network Detector in SMR System. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
112	A Consistent Scheme for the Precise FDTD Modeling of the Graphene Interband Contribution. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
113	Further discussion on magnetic vector potential finite-element formulation for three-dimensional magnetostatic field analysis. IEEE Transactions on Magnetics, 1990, 26, 411-414.	2.1	3
114	Design of a metal-in-gap head for higher coercivity media. IEEE Transactions on Magnetics, 1991, 27, 4894-4896.	2.1	3
115	Read-write characteristics of dual-sided metal-in-gap heads with various media. IEEE Transactions on Magnetics, 1994, 30, 1483-1486.	2.1	3
116	Micromagnetic recording field analysis of a fast-switching single-pole-type head. Journal of Magnetism and Magnetic Materials, 2008, 320, 2971-2974.	2.3	3
117	Micromagnetic Analysis to Reduce Adjacent Track Erasure Field in Planar Write Heads. IEEE Transactions on Magnetics, 2011, 47, 3399-3402.	2.1	3
118	Micromagnetic Simulation of Recording Write Heads a Comparison of Various Micromagnetic Software. IEEE Transactions on Magnetics, 2012, 48, 311-314.	2.1	3
119	Model Analysis of Magnetic Write Head for Shingled Thermally Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
120	Performance evaluation of LDPC coding and iterative decoding system in TDMR R/W channel with head skew. , 2015, , .		3
121	Wide-Angle Elimination of TF/SF-Generated Spurious Waves in the Nonstandard FDTD Technique. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
122	Micromagnetic Model Analysis of Various Spin-Torque Oscillators With Write Head for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	3
123	Optimization of the Spin-Torque Oscillator Response for Microwave-Assisted Magnetic Recording. IEEE Access, 2019, 7, 140134-140141.	4.2	3
124	Effect of Spin-Torque Oscillator Tilt Angle in Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	3
125	MAMR writability and signal-recording characteristics on granular exchange-coupled composite media. Journal of Magnetism and Magnetic Materials, 2021, 529, 167884.	2.3	3
126	Fundamental Heating Characteristics of an RF Hyperthermic System Using a Rectangular Resonant Cavity Applicator for Deep-Seated Tumors. Thermal Medicine(Japanese Journal of Hyperthermic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57		3

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127	Oscillation Characteristics and Influences of Eddy Current on Oscillator for MAMR. Journal of the Magnetics Society of Japan, 2009, 33, 357-361.	0.9	3
128	An Influence of Head Field on the Transition Noise of Thin Film Disk.. Journal of the Magnetics Society of Japan, 1992, 16, 99-104.	0.4	3
129	Optimization of Soft Layer Uniaxial Anisotropy Gradient in Media for Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2022, 58, 1-9.	2.1	3
130	ON TRANSITION CONFIGURATION AND WRITE FIELD OF MIG HEADS. Journal of the Magnetics Society of Japan, 1991, 15, S2_269-274.	0.4	2
131	Numerical analysis of narrow-track single-pole-type head with side shields for 1 Tb/in.2. Journal of Applied Physics, 2003, 93, 7738-7740.	2.5	2
132	Recording field analysis of narrow-track SPT head with side-shields. , 0, , .		2
133	Trailing shield head recording in discrete track media. , 2006, , .		2
134	Nonstandard FDTD Method for Multifrequency Analysis. IEEE Transactions on Magnetics, 2008, 44, 1390-1393.	2.1	2
135	Narrow-track perpendicular write heads. Journal of Magnetism and Magnetic Materials, 2009, 321, 518-525.	2.3	2
136	The feasibility of bit-patterned recording at 4 Tb/in.2 without heat-assist. Journal of Applied Physics, 2011, 109, 07B702.	2.5	2
137	The potential of bit patterned media in shingled recording. Journal of Magnetism and Magnetic Materials, 2012, 324, 314-320.	2.3	2
138	Characteristics of the Boundary Model in the 2-D NS-FDTD Method. IEEE Transactions on Magnetics, 2012, 48, 191-194.	2.1	2
139	Performance evaluation of signal dependent noise predictive maximum likelihood detector for two-dimensional magnetic recording read/write channel. Journal of Applied Physics, 2015, 117, 17D112.	2.5	2
140	Efficient suppression of artificial reflections in the TF/SF scheme for the nonstandard FDTD method. , 2016, , .		2
141	Microwave-Assisted Magnetic Recording on Exchange Coupled Composite Media. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	2
142	Wireless power transfer via negative permittivity metamaterials as resonating elements. , 2017, , .		2
143	Micromagnetic model analysis of various spin torque oscillators with write head for microwave-assisted magnetic recording. , 2017, , .		2
144	A Study on Iterative Decoding With LLR Modulator by Parity Check Information in SMR System. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	2

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145	Modeling the Third-Order Electrodynamic Response of Graphene via an Efficient Finite-Difference Time-Domain Scheme. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	2
146	A Study of Channel Time-Domain Response on Equalization for Reproducing a Double-Layer Magnetic Recording Medium. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	2
147	Micromagnetic Calculations of SPT Head Field with Trailing Shield. Journal of the Magnetics Society of Japan, 2008, 32, 201-204.	0.9	2
148	A Study of Samples Captured at Phases for Multi-Dimensional Magnetic Recording System with Double Recording Layers. , 2021, , .		2
149	A Study of Three-Dimensional Equalization for Reproducing a Double-Layer Magnetic Recording Medium. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
150	A Three-Dimensional Reconstruction of Stray Magnetic Fields of a Magnetic Head by Electron Beam Tomography. IEEE Translation Journal on Magnetics in Japan, 1991, 6, 826-834.	0.1	1
151	New structured metal-in-gap head for high density and high transfer rate recordings. IEEE Transactions on Magnetics, 1993, 29, 3900-3902.	2.1	1
152	A novel numerical approach to interpret images obtained by magnetic force microscope. IEEE Transactions on Magnetics, 1998, 34, 3455-3458.	2.1	1
153	On the duality of electric and magnetic fields using the nonstandard FDTD method. Microwave and Optical Technology Letters, 2004, 40, 148-151.	1.4	1
154	Discussion Based on Numerical and Experimental Studies on Heating Characteristics of an RF Rectangular Resonant Cavity Applicator for Hyperthermia Targeting Deep-seated Tumors. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3536-9.	0.5	1
155	Requirements for soft magnetic underlayer (SUL)â€"Micromagnetic simulations of single-pole-type write heads and SUL systems. Journal of Magnetism and Magnetic Materials, 2012, 324, 282-286.	2.3	1
156	Analysis of unswitched grains in thermally assisted magnetic recording. Journal of Applied Physics, 2014, 115, 17B708.	2.5	1
157	Optimal Write Head Design for Perpendicular Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
158	Areal density prediction for Microwave Assisted Magnetic Recording (MAMR). , 2015, , .		1
159	Rigorous analysis of 3-D statistically-varying EMC problems via a generalized stochastic FDTD method. , 2016, , .		1
160	A study on relationship between recording pattern and decoding reliability in SMR. , 2017, , .		1
161	Total-Field/Scattered-Field Separation Based on H -field Correction for the Nonstandard Finite-Difference Time-Domain. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
162	Micromagnetic model analysis of spin-torque oscillator (STO) integrated into recording write head for microwave-assisted magnetic recording-Oscillation of STO vs. rise time of in-gap fieldâ€". , 2018, , .		1

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163	Efficient adjustment of finite graphene scattering properties via magnetic-bias control for advanced beam manipulation. AIP Advances, 2020, 10, .	1.3	1
164	Effect of FGL Cone Angle on Recording Performance in Microwave-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-6.	2.1	1
165	Optimisation of dual structure recording media for microwave-assisted magnetic recording. AIP Advances, 2020, 10, 125130.	1.3	1
166	Nonlinear Eddy Current Write Field Analysis of a Single-pole Write Head.. Journal of the Magnetics Society of Japan, 2001, 25, 531-534.	0.4	1
167	Read/Write and Thermal Properties of Reverse-Exchange-Coupled Composite Media. Journal of the Magnetics Society of Japan, 2008, 32, 471-476.	0.9	1
168	Numerical and Experimental Studies on Heating Characteristics of an RF Rectangular Resonant Cavity Applicator for Hyperthermic Treatment of Deep-seated Tumors Using a Human Model Equipped with Conductive Caps. Thermal Medicine, 2008, 24, 73-81.	0.1	1
169	Faster Micromagnetic Simulator for Magnetic Recording Using OpenMP. Journal of the Magnetics Society of Japan, 2009, 33, 189-192.	0.9	1
170	Dependence of Recorded Bit-patterns on Saturation Magnetization in Microwave Assisted Magnetic Recording. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 648-654.	0.2	1
171	Investigation of a Spin-Torque Oscillator using Material with Negative Magnetic Anisotropy. Journal of the Magnetics Society of Japan, 2010, 34, 479-489.	0.9	1
172	Relation between the MFM Image and the Magnetization Distribution of a Ferromagnetic Tip. Journal of the Magnetics Society of Japan, 1997, 21, 409-412.	0.4	1
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