Bernard Dieny

List of Publications by Year in descending order

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76031 36203 10,599 138 42 101 citations h-index g-index papers 138 138 138 7531 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Quasi-Equilibrium Stoner–Wohlfarth Versus Strongly Out-of-Equilibrium Dynamics in HAMR. IEEE Transactions on Magnetics, 2022, 58, 1-9.	1.2	O
2	Size-dependent enhancement of passive microwave rectification in magnetic tunnel junctions with perpendicular magnetic anisotropy. Applied Physics Letters, 2022, 120, 012406.	1.5	3
3	Observation of Magnetic Helicoidal Dichroism with Extreme Ultraviolet Light Vortices. Physical Review Letters, 2022, 128, 077401.	2.9	20
4	Depth-resolved magnetization profile of MgO/CoFeB/W perpendicular half magnetic tunnel junctions. AIP Advances, 2022, 12, 035129.	0.6	0
5	Real time investigation of double magnetic tunnel junction with a switchable assistance layer for high efficiency STT-MRAM. APL Materials, 2022, 10, .	2.2	3
6	Quantitative Visualization of Thermally Enhanced Perpendicular Shape Anisotropy STT-MRAM Nanopillars. Nano Letters, 2022, 22, 4000-4005.	4.5	3
7	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"> <mml:mi>Fe</mml:mi> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Mg</mml:mi><mml:mi< td=""><td>1.5</td><td>5</td></mml:mi<></mml:mrow></mml:math 	1.5	5
8	mathvariant="normal">O Interfaces. Physical Review Applied, 2022, Two-dimensional materials prospects for non-volatile spintronic memories. Nature, 2022, 606, 663-673.	13.7	116
9	Off-axis electron holography for the direct visualization of perpendicular shape anisotropy in nanoscale 3D magnetic random-access-memory devices. APL Materials, 2022, 10, .	2.2	4
10	Magneto-mechanical treatment of human glioblastoma cells with engineered iron oxide powder microparticles for triggering apoptosis. Nanoscale Advances, 2021, 3, 6213-6222.	2.2	7
11	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"> <mml:mi>MgO</mml:mi> -Based Magnetic Tunnel Junction by Using <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:mi>Fe</mml:mi></mml:math>	1.5	13
12	Composite Layer. Physical Review Applied, 2021, 15, . All-optical spin switching probability in [Tb/Co] multilayers. Scientific Reports, 2021, 11, 6576.	1.6	9
13	Route towards efficient magnetization reversal driven by voltage control of magnetic anisotropy. Scientific Reports, 2021, 11, 8801.	1.6	5
14	Target domains in nanometric Permalloy disks with columnar structure. Journal Physics D: Applied Physics, 2021, 54, 305001.	1.3	0
15	PSA-STT-MRAM solution for extended temperature stability. , 2021, , .		O
16	Spin Torque Efficiency Modulation in a Double-Barrier Magnetic Tunnel Junction with a Read/Write Mode Control Layer. ACS Applied Electronic Materials, 2021, 3, 2607-2613.	2.0	5
17	Direct observation of the perpendicular shape anisotropy and thermal stability of STT-MRAM nano-pillars examined by off-axis electron holography. Microscopy and Microanalysis, 2021, 27, 2170-2172.	0.2	1
18	Evaluating critical metals contained in spintronic memory with a particular focus on Pt substitution for improved sustainability. Sustainable Materials and Technologies, 2021, 28, e00270.	1.7	3

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19	Spin-Torque-Triggered Magnetization Reversal in Magnetic Tunnel Junctions with Perpendicular Shape Anisotropy. Physical Review Applied, 2021, 16, .	1.5	5
20	SEU Mechanisms in Spintronic Devices: Critical Parameters and Basic Effects. IEEE Transactions on Nuclear Science, 2021, 68, 1533-1541.	1.2	1
21	Spintronic memristors for neuromorphic circuits based on the angular variation of tunnel magnetoresistance. Nanoscale, 2021, 13, 11488-11496.	2.8	10
22	Double magnetic tunnel junctions with a switchable assistance layer for improved spin transfer torque magnetic memory performance. Nanoscale, 2021, 13, 14096-14109.	2.8	6
23	Spin accumulation dynamics in spin valves in the terahertz regime. Physical Review B, 2020, 101, .	1.1	4
24	An extraordinary chiral exchange-bias phenomenon: engineering the sign of the bias field in orthogonal bilayers by a magnetically switchable response mechanism. Nanoscale, 2020, 12, 1155-1163.	2.8	7
25	An electron holography study of perpendicular magnetic tunnel junctions nanostructured by deposition on pre-patterned conducting pillars. Nanoscale, 2020, 12, 17312-17318.	2.8	4
26	Ultrafast Sweep-Tuned Spectrum Analyzer with Temporal Resolution Based on a Spin-Torque Nano-Oscillator. Nano Letters, 2020, 20, 6104-6111.	4.5	34
27	One-Step Soft Chemical Synthesis of Magnetite Nanoparticles under Inert Gas Atmosphere. Magnetic Properties and In Vitro Study. Nanomaterials, 2020, 10, 1500.	1.9	13
28	Magneto-mechanically actuated microstructures to efficiently prevent bacterial biofilm formation. Scientific Reports, 2020, 10, 15470.	1.6	3
29	Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459.	13.1	471
30	The influence of spin-orbit coupling of electrons with radiation field on Faraday and Kerr magneto-optical effects in ferromagnets. Journal of Magnetism and Magnetic Materials, 2020, 503, 166610.	1.0	1
31	Indium Tin Oxide optical access for magnetic tunnel junctions in hybrid spintronic–photonic circuits. Nanotechnology, 2020, 31, 425302.	1.3	3
32	Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.	1.0	711
33	Cancer treatment by magneto-mechanical effect of particles, a review. Nanoscale Advances, 2020, 2, 3632-3655.	2.2	63
34	Thermal robustness of magnetic tunnel junctions with perpendicular shape anisotropy. Nanoscale, 2020, 12, 6378-6384.	2.8	18
35	A multifunctional standardized magnetic tunnel junction stack embedding sensor, memory and oscillator functionality. Journal of Magnetism and Magnetic Materials, 2020, 505, 166647.	1.0	9
36	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	1.6	68

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37	Reduced thermal dependence of the sensitivity of a planar Hall sensor. Applied Physics Letters, 2019, 115, .	1.5	17
38	Perpendicular shape anisotropy spin transfer torque-MRAM: determination of pillar tilt angle from 3D Stonerâ€"Wohlfarth astroid analysis. Journal Physics D: Applied Physics, 2019, 52, 505005.	1.3	10
39	Reduced Thermal Variation of Perpendicular Magnetic Anisotropy in Magnetically Stiffened Dual-W Composite Storage Layer for Spin-Transfer-Torque Magnetic Random-Access Memory. Physical Review Applied, 2019, 12, .	1.5	6
40	Stabilization of the easy-cone magnetic state in free layers of magnetic tunnel junctions. Physical Review B, 2019, 100, .	1.1	11
41	Realizing an Isotropically Coercive Magnetic Layer for Memristive Applications by Analogy to Dry Friction. Physical Review Applied, 2019, 12, .	1.5	7
42	Impact of Dzyaloshinskii-Moriya interactions on the thermal stability factor of heavy metal/magnetic metal/oxide based nano-pillars. Journal of Applied Physics, 2019, 126, 103905.	1.1	6
43	Optical response of magnetically actuated biocompatible membranes. Nanoscale, 2019, 11, 10667-10683.	2.8	5
44	Perpendicular shape anisotropy spin transfer torque magnetic random-access memory: towards sub-10 nm devices. Journal Physics D: Applied Physics, 2019, 52, 234001.	1.3	23
45	Physicochemical origin of improvement of magnetic and transport properties of STT-MRAM cells using tungsten on FeCoB storage layer. Applied Physics Letters, 2019, 114, .	1.5	14
46	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. AIP Advances, 2019, 9, .	0.6	36
47	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. Nature Nanotechnology, 2019, 14, 40-43.	15.6	26
48	Magnetic modulation of inverse spin Hall effect in lateral spin-valves. Journal Physics D: Applied Physics, 2018, 51, 205003.	1.3	1
49	Nonlocal Signal and Noise in <mml:math display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="sans-serif">T</mml:mi></mml:mrow></mml:math> -Shaped Lateral Spin-Valve Structures. Physical Review Applied, 2018, 10	1.5	6
50	Establishing characteristic behavior of voltage control of magnetic anisotropy by ionic migration. Physical Review B, 2018, 98, .	1.1	16
51	Impact of Joule heating on the stability phase diagrams of perpendicular magnetic tunnel junctions. Physical Review B, 2018, 98, .	1.1	18
52	Impact of Intergrain Spin-Transfer Torques Due to Huge Thermal Gradients in Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2018, 54, 1-11.	1.2	11
53	A highly thermally stable sub-20 nm magnetic random-access memory based on perpendicular shape anisotropy. Nanoscale, 2018, 10, 12187-12195.	2.8	87
54	Ion irradiation-induced easy-cone anisotropy in double-MgO free layers for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2018, 112, .	1.5	14

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55	Towards high density STT-MRAM at sub-20nm nodes. , 2018, , .		3
56	Advanced memoryâ€"Materials for a new era of information technology. MRS Bulletin, 2018, 43, 330-333.	1.7	22
57	Novel multifunctional RKKY coupling layer for ultrathin perpendicular synthetic antiferromagnet. Scientific Reports, 2018, 8, 11724.	1.6	19
58	Influence of spin-orbit interaction within the insulating barrier on the electron transport in magnetic tunnel junctions. Physical Review B, 2017, 95, .	1.1	2
59	Enhanced annealing stability and perpendicular magnetic anisotropy in perpendicular magnetic tunnel junctions using W layer. Applied Physics Letters, 2017, 110 , .	1.5	35
60	Fabrication of nanotweezers and their remote actuation by magnetic fields. Scientific Reports, 2017, 7, 451.	1.6	7
61	Fabrication of monodisperse magnetic nanoparticles released in solution using a block copolymer template. Journal Physics D: Applied Physics, 2017, 50, 295001.	1.3	3
62	Stability phase diagram of a perpendicular magnetic tunnel junction in noncollinear geometry. Physical Review B, 2017, 95, .	1.1	14
63	Inhomogeneous free layer in perpendicular magnetic tunnel junctions and its impact on the effective anisotropies and spin transfer torque switching efficiency. Physical Review B, 2017, 96, .	1.1	15
64	Perpendicular magnetic anisotropy at transition metal/oxide interfaces and applications. Reviews of Modern Physics, $2017,89$, .	16.4	503
65	Novel approach for nano-patterning magnetic tunnel junctions stacks at narrow pitch: A route towards high density STT-MRAM applications. , 2017, , .		6
66	Second order anisotropy contribution in perpendicular magnetic tunnel junctions. Scientific Reports, 2016, 6, 26877.	1.6	57
67	Steady State and Dynamics of Joule Heating in Magnetic Tunnel Junctions Observed via the Temperature Dependence of RKKY Coupling. Physical Review Applied, 2016, 6, .	1.5	10
68	Magnetoresistive Random Access Memory. Proceedings of the IEEE, 2016, 104, 1796-1830.	16.4	392
69	Anatomy of electric field control of perpendicular magnetic anisotropy at Fe/MgO interfaces. Physical Review B, 2016, 93, .	1.1	59
70	Perpendicular magnetic tunnel junctions with a synthetic storage or reference layer: A new route towards Pt- and Pd-free junctions. Scientific Reports, 2016, 6, 21246.	1.6	43
71	Magneto-optical micromechanical systems for magnetic field mapping. Scientific Reports, 2016, 6, 31634.	1.6	4
72	Analytical description of ballistic spin currents and torques in magnetic tunnel junctions. Physical Review B, 2015, 92, .	1.1	25

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73	Respective influence of in-plane and out-of-plane spin-transfer torques in magnetization switching of perpendicular magnetic tunnel junctions. Physical Review B, $2015, 92, .$	1.1	31
74	Perpendicular magnetic tunnel junctions with double barrier and single or synthetic antiferromagnetic storage layer. Journal of Applied Physics, 2015, 117, .	1.1	19
75	Triggering the apoptosis of targeted human renal cancer cells by the vibration of anisotropic magnetic particles attached to the cell membrane. Nanoscale, 2015, 7, 15904-15914.	2.8	76
76	Influence of magnetic electrodes thicknesses on the transport properties of magnetic tunnel junctions with perpendicular anisotropy. Applied Physics Letters, 2014, 105, .	1.5	19
77	Modulating spin transfer torque switching dynamics with two orthogonal spin-polarizers by varying the cell aspect ratio. Physical Review B, 2014, 90, .	1.1	11
78	Field Dependence of Spin-Transfer Torque Switching Current in Perpendicular Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	3
79	Impurity-induced enhancement of perpendicular magnetic anisotropy in Fe/MgO tunnel junctions. Physical Review B, 2014, 90, .	1.1	24
80	Comparison of Verilogâ€A compact modelling strategies for spintronic devices. Electronics Letters, 2014, 50, 1353-1355.	0.5	20
81	Self-referenced multi-bit thermally assisted magnetic random access memories. Applied Physics Letters, 2014, 105, .	1.5	10
82	Out-of-plane precession of an in-plane magnetized free layer submitted to the spin-transfer torque of a perpendicular polarizer: An analytical perturbative approach. Physical Review B, 2013, 88, .	1.1	15
83	Comparison of dispersion and actuation properties of vortex and synthetic antiferromagnetic particles for biotechnological applications. Applied Physics Letters, 2013, 103, 132412.	1.5	32
84	Correlation between write endurance and electrical low frequency noise in MgO based magnetic tunnel junctions. Applied Physics Letters, 2013, 102, 052404.	1.5	8
85	Macrospin model of precessional spin-transfer-torque switching in planar magnetic tunnel junctions with perpendicular polarizer. Applied Physics Letters, 2013, 102, .	1.5	8
86	Anatomy of perpendicular magnetic anisotropy in Fe/MgO magnetic tunnel junctions: First-principles insight. Physical Review B, 2013, 88, .	1.1	117
87	Spontaneous Anomalous and Spin Hall Effects Due to Spin-Orbit Scattering of Evanescent Wave Functions in Magnetic Tunnel Junctions. Physical Review Letters, 2013, 110, 247204.	2.9	33
88	Enhancement of perpendicular magnetic anisotropy through reduction of Co-Pt interdiffusion in (Co/Pt) multilayers. Applied Physics Letters, 2012, 100, .	1.5	77
89	Heating asymmetry induced by tunneling current flow in magnetic tunnel junctions. Applied Physics Letters, 2012, 100, .	1.5	15
90	Extended scalability and functionalities of MRAM based on thermally assisted writing, , 2011 , , .		12

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91	Spin-current vortices in current-perpendicular-to-plane nanoconstricted spin valves. Physical Review B, 2011, 84, .	1.1	15
92	Charge trapping-detrapping mechanism of barrier breakdown in MgO magnetic tunnel junctions. Applied Physics Letters, 2011, 99, .	1.5	33
93	Spin transfer torque switching assisted by thermally induced anisotropy reorientation in perpendicular magnetic tunnel junctions. Applied Physics Letters, 2011, 99, .	1.5	40
94	Origin and control of exchange-bias-like phenomenon in coupled ferromagnetic [Pt/Co]/NiFe bilayers. Physical Review B, 2011, 84, .	1.1	22
95	Tumbling motion yielding fast displacements of synthetic antiferromagnetic nanoparticles for biological applications. Applied Physics Letters, 2011, 99, 093107. First-principles investigation of the very large perpendicular magnetic anisotropy at Fe <mml:math< td=""><td>1.5</td><td>12</td></mml:math<>	1.5	12
96	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mo> </mml:mo> </mml:mrow> MgO and Co <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo> </mml:mo> </mml:mrow></mml:math> MgO interfaces.	1.1	545
97	Physical Review B, 2011, 84, . Spintronic Devices for Memory and Logic Applications. Handbook of Magnetic Materials, 2011, 19, 107-127.	0.6	10
98	Spin-transfer effect and its use in spintronic components. International Journal of Nanotechnology, 2010, 7, 591.	0.1	61
99	Correlation Between Perpendicular Anisotropy and Magnetoresistance in Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2010, 46, 1412-1415.	1.2	37
100	Comparison of Synthetic Antiferromagnets and Hard Ferromagnets as Reference Layer in Magnetic Tunnel Junctions With Perpendicular Magnetic Anisotropy. IEEE Magnetics Letters, 2010, 1, 3000204-3000204.	0.6	73
101	Self-polarization phenomenon and control of dispersion of synthetic antiferromagnetic nanoparticles for biological applications. Applied Physics Letters, 2010, 97, .	1.5	23
102	Oscillatory interlayer exchange coupling in MgO tunnel junctions with perpendicular magnetic anisotropy. Physical Review B, 2010, 81, .	1.1	46
103	SPICE modelling of magnetic tunnel junctions written by spin-transfer torque. Journal Physics D: Applied Physics, 2010, 43, 215001.	1.3	62
104	Influence of thermal annealing on the perpendicular magnetic anisotropy of Pt/Co/AlOx trilayers. Physical Review B, 2009, 79, .	1.1	136
105	Pt/Co/oxide and oxide/Co/Pt electrodes for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2009, 94, .	1.5	120
106	Oscillatory behavior of perpendicular magnetic anisotropy in $Pt/Co/Al(Ox)$ films as a function of Al thickness. Applied Physics Letters, 2009, 95, .	1.5	6
107	Bias-voltage dependence of perpendicular spin-transfer torque in asymmetric MgO-based magnetic tunnel junctions. Nature Physics, 2009, 5, 898-902.	6.5	193
108	100 ps precessional spin-transfer switching of a planar magnetic random access memory cell with perpendicular spin polarizer. Applied Physics Letters, 2009, 95, 072506.	1.5	53

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109	Description of current-driven torques in magnetic tunnel junctions. Journal of Physics Condensed Matter, 2008, 20, 145208.	0.7	40
110	Macrospin description of the perpendicular polarizer-planar free-layer spin-torque oscillator. Physical Review B, 2008, 78, .	1.1	83
111	Enhanced exchange bias effects in a nanopatterned system consisting of two perpendicularly coupled ferromagnets. Applied Physics Letters, 2008, 92, .	1.5	15
112	Sizable room-temperature magnetoresistance in cobalt based magnetic tunnel junctions with out-of-plane anisotropy. Applied Physics Letters, 2008, 92, .	1.5	82
113	Analysis of oxygen induced anisotropy crossover in Pt/Co/MOx trilayers. Journal of Applied Physics, 2008, 104, .	1.1	200
114	Thermally assisted MRAM. Journal of Physics Condensed Matter, 2007, 19, 165218.	0.7	231
115	Spin-torque oscillator using a perpendicular polarizer and a planar free layer. Nature Materials, 2007, 6, 447-453.	13.3	521
116	Creep and Flow Regimes of Magnetic Domain-Wall Motion in Ultrathin <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mwith 2007,="" 217208.<="" 99,="" anisotropy.="" letters,="" perpendicular="" physical="" review="" td=""><td>ml:mi>Pt<</td><td>/mml:mi></td></mwith></mml:math>	ml:mi>Pt<	/mml:mi>
117	Spin-Torque Influence on the High-Frequency Magnetization Fluctuations in Magnetic Tunnel Junctions. Physical Review Letters, 2007, 98, 077203.	2.9	176
118	Crossover in heating regimes of thermally assisted magnetic memories. Journal of Applied Physics, 2006, 99, 08N904.	1.1	25
119	Exchange Bias in Annealed [Pt/Co]/NiFe Systems. IEEE Transactions on Magnetics, 2006, 42, 2990-2992.	1.2	10
120	Magnetic behavior of systems composed of coupled ferromagnetic bilayers with distinct anisotropy directions. Physical Review B, 2006, 73, .	1.1	35
121	Analytical investigation of spin-transfer dynamics using a perpendicular-to-plane polarizer. Applied Physics Letters, 2005, 86, 022505.	1.5	175
122	Origin of the Asymmetric Magnetization Reversal Behavior in Exchange-Biased Systems: Competing Anisotropies. Physical Review Letters, 2005, 95, 057204.	2.9	255
123	Exchange-bias properties in permalloy deposited onto aPtâ^•Comultilayer. Physical Review B, 2004, 70, .	1.1	51
124	Thermally Assisted Switching in Exchange-Biased Storage Layer Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2004, 40, 2625-2627.	1.2	104
125	Crossovers from in-plane to perpendicular anisotropy in magnetic tunnel junctions as a function of the barrier degree of oxidation. Journal of Applied Physics, 2003, 93, 7513-7515.	1.1	61
126	Perpendicular Interlayer Coupling inNi80Fe20/NiO/CoTrilayers. Physical Review Letters, 2003, 91, 027201.	2.9	70

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127	Crossover from in-plane to perpendicular anisotropy in Pt/CoFe/AlOx sandwiches as a function of Al oxidation: A very accurate control of the oxidation of tunnel barriers. Applied Physics Letters, 2002, 80, 4157-4159.	1.5	166
128	Spin-polarized electronic reflections at metal–oxide interfaces. Journal of Magnetism and Magnetic Materials, 2002, 240, 140-142.	1.0	5
129	Title is missing!. European Physical Journal B, 2002, 25, 177-189.	0.6	4
130	Spin-dependent tunneling in discontinuous metal/insulator multilayers. Journal of Magnetism and Magnetic Materials, 1998, 185, 283-292.	1.0	78
131	Spin-polarized tunneling in discontinuous CoFe/HfO2multilayers. Journal of Applied Physics, 1997, 81, 5512-5514.	1.1	66
132	Spinâ€dependent tunneling in HfO2 tunnel junctions. Applied Physics Letters, 1996, 69, 2291-2293.	1.5	109
133	Anisotropy and angular variation of the giant magnetoresistance in magnetic multilayers (invited). Journal of Applied Physics, 1996, 79, 6370.	1.1	30
134	Crossover from Easy-Plane to Perpendicular Anisotropy in Magnetic Thin Films: Canted Anisotropy Due to Partial Coverage or Interfacial Roughness. Europhysics Letters, 1994, 25, 723-728.	0.7	47
135	Magnetotransport properties of magnetically soft spinâ€valve structures (invited). Journal of Applied Physics, 1991, 69, 4774-4779.	1.1	553
136	Giant magnetoresistive in soft ferromagnetic multilayers. Physical Review B, 1991, 43, 1297-1300.	1.1	1,718
137	Magnetic Random&;#x02010;Access Memory. , 0, , 101-164.		1
138	Unconventional Seedless Multilayers with Large Perpendicular Anisotropy for Back-End-of-Line Compatible Spintronic Devices. ACS Applied Electronic Materials, 0, , .	2.0	0