Sebastiaan van Dijken

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179 papers	4,852 citations	41 h-index	61 g-index
194 ext. papers	5,707 ext. citations	5.9 avg, IF	5.85 L-index

#	Paper	IF	Citations
179	Roadmap on Spin-Wave Computing. *IEEE Transactions on Magnetics*, **2022**, 1-1	2	20
178	Zero-field routing of spin waves in a multiferroic heterostructure. *Applied Physics Letters*, **2022**, 120, 112407	3.4	1
177	Magnetic on□off switching of a plasmonic laser. *Nature Photonics*, **2022**, 16, 27-32	33.9	1
176	Optically controlled large-coercivity room-temperature thin-film magnets. *Journal of Materials Chemistry C*, **2021**, 10, 294-300	7.1	3
175	Nanoscale magnonic Fabry-P□ot resonator for low-loss spin-wave manipulation. *Nature Communications*, **2021**, 12, 2293	17.4	12
174	Voltage control of skyrmions: Creation, annihilation, and zero-magnetic field stabilization. *Applied Physics Letters*, **2021**, 118, 172409	3.4	5
173	Electric-Field Control of Propagating Spin Waves by Ferroelectric Domain-Wall Motion in a Multiferroic Heterostructure. *Advanced Materials*, **2021**, 33, e2100646	24	11
172	Electronic and Magnetic Characterization of Epitaxial CrBr Monolayers on a Superconducting Substrate. *Advanced Materials*, **2021**, 33, e2006850	24	9
171	Bioinspired multisensory neural network with crossmodal integration and recognition. *Nature Communications*, **2021**, 12, 1120	17.4	27
170	Structural Phase Transitions to 2D and 3D Oxygen Vacancy Patterns in a Perovskite Film Induced by Electrical and Mechanical Nanoprobing. *Small*, **2021**, 17, e2006273	11	4
169	The 2021 Magnonics Roadmap. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	69
168	. *IEEE Transactions on Magnetics*, **2021**, 57, 1-57	2	8
167	Magnetoplasmonic properties of perpendicularly magnetized [Co/Pt]N nanodots. *Physical Review B* , **2020**, 101,	3.3	8
166	Tactile sensory coding and learning with bio-inspired optoelectronic spiking afferent nerves. *Nature Communications*, **2020**, 11, 1369	17.4	72
165	Electronic and magnetic characterization of epitaxial VSe2 monolayers on superconducting NbSe2. *Communications Physics*, **2020**, 3,	5.4	10
164	Temperature dependence of the Dzyaloshinskii-Moriya interaction in ultrathin films. *Physical Review B*, **2020**, 101,	3.3	13
163	Influence of the Plasmonic Nanodisk Positions Inside a Magnetic Medium on the Faraday Effect Enhancement. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 1900682	2.5	4

162	Geometrical Frustration and Planar Triangular Antiferromagnetism in Quasi-Three-Dimensional Artificial Spin Architecture. *Physical Review Letters*, **2020**, 125, 267203	7.4	4
161	Reversible thermal strain control of oxygen vacancy ordering in an epitaxial La0.5Sr0.5CoO3 Film. *Physical Review Materials*, **2020**, 4,	3.2	3
160	Nanometer-thick YIG-based magnonic crystals: Bandgap dependence on groove depth, lattice constant, and film thickness. *Applied Physics Letters*, **2020**, 116, 202403	3.4	3
159	Elevated effective dimension in tree-like nanomagnetic Cayley structures. *Nanoscale*, **2020**, 12, 189-194	7.7	6
158	Laser-Induced Magnetization Precession in Individual Magnetoelastic Domains of a Multiferroic Co40Fe40B20/BaTiO3 Composite. *Physical Review Applied*, **2020**, 14,	4.3	1
157	Unconventional Ferroelectric Switching via Local Domain Wall Motion in Multiferroic Fe2O3 Films. *Advanced Electronic Materials*, **2020**, 6, 1901134	6.4	5
156	Crossover from synaptic to neuronal functionalities through carrier concentration control in Nb-doped SrTiO3-based organic ferroelectric tunnel junctions. *APL Materials*, **2019**, 7, 091114	5.7	4
155	Driven gyrotropic skyrmion motion through steps in magnetic anisotropy. *Scientific Reports*, **2019**, 9, 6525	4.9	12
154	Giant non-volatile magnetoelectric effects via growth anisotropy in Co40Fe40B20 films on PMN-PT substrates. *Applied Physics Letters*, **2019**, 114, 092401	3.4	17
153	Lasing in Ni Nanodisk Arrays. *ACS Nano*, **2019**, 13, 5686-5692	16.7	25
152	Emergent magnetic monopole dynamics in macroscopically degenerate artificial spin ice. *Science Advances*, **2019**, 5, eaav6380	14.3	70
151	Mimicking Neurotransmitter Release and Long-Term Plasticity by Oxygen Vacancy Migration in a Tunnel Junction Memristor. *Advanced Intelligent Systems*, **2019**, 1, 1900036	6	8
150	Tunable magnetoplasmonics in lattices of Ni/SiO/Au dimers. *Scientific Reports*, **2019**, 9, 9907	4.9	10
149	Converting an Organic Light-Emitting Diode from Blue to White with Bragg Modes. *ACS Photonics*, **2019**, 6, 2655-2662	6.3	6
148	Dipolar Cairo lattice: Geometrical frustration and short-range correlations. *Physical Review Materials*, **2019**, 3,	3.2	9
147	Electric-field-induced avalanches and glassiness of mobile ferroelastic twin domains in cryogenic SrTiO3. *Physical Review Research*, **2019**, 1,	3.9	9
146	Surface-plasmon-polariton-driven narrow-linewidth magneto-optics in Ni nanodisk arrays. *Nanophotonics*, **2019**, 9, 113-121	6.3	8
145	Energy-Efficient Organic Ferroelectric Tunnel Junction Memristors for Neuromorphic Computing. *Advanced Electronic Materials*, **2019**, 5, 1800795	6.4	80

144	Tuning magnetic ordering in a dipolar square-kite tessellation. *Applied Physics Letters*, **2018**, 112, 092403	3.4	7
143	Plasmon-induced demagnetization and magnetic switching in nickel nanoparticle arrays. *Applied Physics Letters*, **2018**, 112, 072406	3.4	15
142	Metallic Contact between MoS and Ni via Au Nanoglue. *Small*, **2018**, 14, e1704526	11	20
141	Exchange-torque-induced excitation of perpendicular standing spin waves in nanometer-thick YIG films. *Scientific Reports*, **2018**, 8, 5755	4.9	59
140	Chemical-bond effect on epitaxial strain in perovskite sodium niobate. *Physical Chemistry Chemical Physics*, **2018**, 20, 4263-4268	3.6	3
139	Deposition of Magnetite Nanofilms by Pulsed Injection MOCVD in a Magnetic Field. *Nanomaterials*, **2018**, 8,	5.4	1
138	Control of spin-wave transmission by a programmable domain wall. *Nature Communications*, **2018**, 9, 4853	17.4	51
137	Propagating spin waves in nanometer-thick yttrium iron garnet films: Dependence on wave vector, magnetic field strength, and angle. *Physical Review B*, **2018**, 98,	3.3	19
136	Magneto-optical study of anomalous magnetization reversal in the presence of anisotropy dispersion in CoPd thin films. *Physical Review B*, **2018**, 98,	3.3	2
135	Low-loss YIG-based magnonic crystals with large tunable bandgaps. *Nature Communications*, **2018**, 9, 5445	17.4	35
134	Hybrid Ni/SiO2/Au dimer arrays for high-resolution refractive index sensing. *Nanophotonics*, **2018**, 7, 905-912	6.3	30
133	Electrode Dependence of Tunneling Electroresistance and Switching Stability in Organic Ferroelectric P(VDF-TrFE)-Based Tunnel Junctions. *Advanced Functional Materials*, **2018**, 28, 1703273	15.6	25
132	Low-Temperature Dielectric Anisotropy Driven by an Antiferroelectric Mode in SrTiO_{3}. *Physical Review Letters*, **2018**, 120, 217601	7.4	16
131	Metal-Semiconductor Contacts: Metallic Contact between MoS2 and Ni via Au Nanoglue (Small 22/2018). *Small*, **2018**, 14, 1870100	11	
130	Direct observation of oxygen vacancy-driven structural and resistive phase transitions in LaSrMnO. *Nature Communications*, **2017**, 8, 14544	17.4	116
129	Influence of intermixing at the Ta/CoFeB interface on spin Hall angle in Ta/CoFeB/MgO heterostructures. *Scientific Reports*, **2017**, 7, 968	4.9	42
128	Influence of magnetic field and ferromagnetic film thickness on domain pattern transfer in multiferroic heterostructures. *Journal of Magnetism and Magnetic Materials*, **2017**, 441, 404-408	2.8	1
127	Electric-field-driven domain wall dynamics in perpendicularly magnetized multilayers. *AIP Advances*, **2017**, 7, 035119	1.5	6

126	Nanoscale control of competing interactions and geometrical frustration in a dipolar trident lattice. *Nature Communications*, **2017**, 8, 995	17.4	27
125	Tunable Short-Wavelength Spin-Wave Emission and Confinement in Anisotropy-Modulated Multiferroic Heterostructures. *Physical Review Applied*, **2017**, 8,	4.3	35
124	Tsu-Esaki modeling of tunneling currents in ferroelectric tunnel junctions. *Journal of Applied Physics* , **2017**, 122, 234301	2.5	3
123	Thermodynamics of emergent magnetic charge screening in artificial spin ice. *Nature Communications*, **2016**, 7, 12635	17.4	35
122	Electric Field Control of Magnetism Based on Elastically Coupled Ferromagnetic and Ferroelectric Domains **2016**, 677-699		
121	Tunable short-wavelength spin wave excitation from pinned magnetic domain walls. *Scientific Reports*, **2016**, 6, 21330	4.9	49
120	Hybrid plasmonic lattices with tunable magneto-optical activity. *Optics Express*, **2016**, 24, 3652-62	3.3	34
119	Magnetic circular dichroism of non-local surface lattice resonances in magnetic nanoparticle arrays. *Optics Express*, **2016**, 24, 3562-71	3.3	12
118	Anisotropic Nanoantenna-Based Magnetoplasmonic Crystals for Highly Enhanced and Tunable Magneto-Optical Activity. *Nano Letters*, **2016**, 16, 2533-42	11.5	43
117	Hybrid Ferromagnetic/Ferroelectric Materials **2016**, 365-398		1
116	Electron-beam-induced structural phase transition related to oxygen vacancy ordering in epitaxial La2/3Sr1/3MnO3 films **2016**, 1020-1021		1
115	Electric-field-driven dynamics of magnetic domain walls in magnetic nanowires patterned on ferroelectric domains. *New Journal of Physics*, **2016**, 18, 033027	2.9	7
114	Dirty limit scattering behind the decreased anisotropy of doped YBa2Cu3O7-□ thin films. *Journal of Physics Condensed Matter*, **2016**, 28, 175702	1.8	7
113	Resistive Switching in All-Oxide Ferroelectric Tunnel Junctions with Ionic Interfaces. *Advanced Materials*, **2016**, 28, 6852-9	24	59
112	Reconfigurable magnetic logic based on the energetics of pinned domain walls. *Applied Physics Letters*, **2016**, 108, 032402	3.4	4
111	Temperature dependence of spin-orbit torques in W/CoFeB bilayers. *Applied Physics Letters*, **2016**, 109, 062407	3.4	22
110	Tunnelling anisotropic magnetoresistance at La0.67Sr0.33MnO3-graphene interfaces. *Applied Physics Letters*, **2016**, 108, 112405	3.4	4
109	Electric-field tunable spin diode FMR in patterned PMN-PT/NiFe structures. *Applied Physics Letters*, **2016**, 109, 072406	3.4	10

108	Long Spin Diffusion Length in Few-Layer Graphene Flakes. *Physical Review Letters*, **2016**, 117, 147201	7.4	29
107	Effect of epitaxy on interband transitions in ferroelectric KNbO3. *New Journal of Physics*, **2015**, 17, 043048	3.9	10
106	Surface lattice resonances and magneto-optical response in magnetic nanoparticle arrays. *Nature Communications*, **2015**, 6, 7072	17.4	95
105	Magneto-ionic control of interfacial magnetism. *Nature Materials*, **2015**, 14, 174-81	27	365
104	Electric-field switching of perpendicularly magnetized multilayers. *NPG Asia Materials*, **2015**, 7, e198-e198	8.3	52
103	Interband transitions in epitaxial ferroelectric films of NaNbO3. *Physical Review B*, **2015**, 92,	3.3	13
102	Influence of elastically pinned magnetic domain walls on magnetization reversal in multiferroic heterostructures. *Physical Review B*, **2015**, 92,	3.3	9
101	Reversible Electric-Field-Driven Magnetic Domain-Wall Motion. *Physical Review X*, **2015**, 5,	9.1	44
100	Effects of doping and epitaxy on optical behavior of NaNbO3 films. *Applied Physics Letters*, **2015**, 107, 172906	3.4	3
99	Concurrent bandgap narrowing and polarization enhancement in epitaxial ferroelectric nanofilms. *Science and Technology of Advanced Materials*, **2015**, 16, 026002	7.1	10
98	A Novel Porous Tube Reactor for Nanoparticle Synthesis with Simultaneous Gas-Phase Reaction and Dilution. *Aerosol Science and Technology*, **2015**, 49, 1170-1180	3.4	1
97	The Angular Dependence of the Critical Current of $hbox{BaCeO}_{3}$ Doped $hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{6+x}$ Thin Films. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-5	1.8	10
96	Ultrasensitive and label-free molecular-level detection enabled by light phase control in magnetoplasmonic nanoantennas. *Nature Communications*, **2015**, 6, 6150	17.4	122
95	Hybrid Ferromagnetic/Ferroelectric Materials **2015**, 1-29		
94	Electric field driven magnetic domain wall motion in ferromagnetic-ferroelectric heterostructures. *Applied Physics Letters*, **2014**, 104, 012401	3.4	20
93	Electron-beam-induced Perovskite-Brownmillerite-Perovskite structural phase transitions in epitaxial La2/3Sr1/3MnO3 films. *Advanced Materials*, **2014**, 26, 2789-93	24	56
92	Size dependence of domain pattern transfer in multiferroic heterostructures. *Physical Review Letters*, **2014**, 112, 017201	7.4	25
91	Tunable magnetic properties of monoatomic metal-oxide Fe/MgO multilayers. *Physical Review B*, **2014**, 90,	3.3	7

90	Three ranges of the angular dependence of critical current of BaZrO3 doped YBa2Cu3O7−δ thin films grown at different temperatures. *Thin Solid Films*, **2014**, 562, 554-560	2.2	19
89	Transition Metal Oxides: Electron-Beam-Induced Perovskite–Brownmillerite–Perovskite Structural Phase Transitions in Epitaxial La2/3Sr1/3MnO3 Films (Adv. Mater. 18/2014). *Advanced Materials*, **2014**, 26, 2788-2788	24	
88	Pulsed laser deposition of La1−xSrxMnO3: thin-film properties and spintronic applications. *Journal Physics D: Applied Physics*, **2014**, 47, 034010	3	74
87	COMPARATIVE STUDY OF SPIN INJECTION AND TRANSPORT IN Alq3 AND CoPHTHALOCYANINE-BASED ORGANIC SPIN VALVES. *Spin*, **2014**, 04, 1440009	1.3	11
86	Effects of a non-absorbing substrate on the magneto-optical Kerr response of plasmonic ferromagnetic nanodisks. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 1067-1075	1.6	22
85	Characterization of aluminum oxide tunnel barriers by combining transport measurements and transmission electron microscopy imaging. *Journal of Applied Physics*, **2014**, 116, 073702	2.5	18
84	Spin waves in CoFeB on ferroelectric domains combining spin mechanics and magnonics. *Solid State Communications*, **2014**, 198, 13-17	1.6	23
83	Structural and magnetic properties of pulsed laser deposited SrRuO3/CoFe2O4/La2/3Sr1/3MnO3 magnetic oxide heterostructures on SrTiO3(001) and MgO(001). *Applied Physics A: Materials Science and Processing*, **2013**, 110, 889-894	2.6	2
82	Backhopping effect in magnetic tunnel junctions: Comparison between theory and experiment. *Journal of Applied Physics*, **2013**, 114, 233905	2.5	6
81	Tuning the magneto-optical response of nanosize ferromagnetic Ni disks using the phase of localized plasmons. *Physical Review Letters*, **2013**, 111, 167401	7.4	84
80	Influence of MgO tunnel barrier thickness on spin-transfer ferromagnetic resonance and torque in magnetic tunnel junctions. *Physical Review B*, **2013**, 87,	3.3	17
79	Temperature control of local magnetic anisotropy in multiferroic CoFe/BaTiO3. *Applied Physics Letters*, **2013**, 102, 112406	3.4	25
78	Coherent piezoelectric strain transfer to thick epitaxial ferromagnetic films with large lattice mismatch. *Journal of Physics Condensed Matter*, **2013**, 25, 082205	1.8	24
77	In-situ coated nanomagnets. *Powder Technology*, **2013**, 233, 15-21	5.2	2
76	Epitaxial Ferroelectric Heterostructures with Nanocolumn-Enhanced Dynamic Properties. *Advanced Functional Materials*, **2013**, 23, 467-474	15.6	14
75	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. *Optics Express*, **2013**, 21, 9875-89	3.3	31
74	Room-temperature perpendicular magnetic anisotropy of MgO/Fe/MgO ultrathin films. *Journal of Applied Physics*, **2013**, 114, 224307	2.5	16
73	Toward All-Oxide Magnetic Tunnel Junctions: Epitaxial Growth of SrRuO3/CoFe2O4/La2/3Sr1/3MnO3Trilayers. *Crystal Growth and Design*, **2012**, 12, 954-959	3.5	15

72	d0 ferromagnetic interface between nonmagnetic perovskites. *Physical Review Letters*, **2012**, 109, 127207	7.4	42
71	Alternating domains with uniaxial and biaxial magnetic anisotropy in epitaxial Fe films on BaTiO3. *Applied Physics Letters*, **2012**, 101, 262405	3.4	39
70	Magnetic field sensor with voltage-tunable sensing properties. *Applied Physics Letters*, **2012**, 101, 192401	3.4	30
69	Electric-field control of magnetic domain wall motion and local magnetization reversal. *Scientific Reports*, **2012**, 2, 258	4.9	203
68	Zero-Field Spin Torque Oscillator Based on Magnetic Tunnel Junctions with a Tilted CoFeB Free Layer. *Applied Physics Express*, **2012**, 5, 063005	2.4	32
67	Field tuning of ferromagnetic domain walls on elastically coupled ferroelectric domain boundaries. *Physical Review B*, **2012**, 85,	3.3	30
66	Magneto-optical Kerr effect susceptometer for the analysis of magnetic domain wall dynamics. *Review of Scientific Instruments*, **2011**, 82, 103901	1.7	6
65	Electrical Writing of Magnetic Domain Patterns in Ferromagnetic/Ferroelectric Heterostructures. *IEEE Transactions on Magnetics*, **2011**, 47, 3768-3771	2	23
64	Pattern transfer and electric-field-induced magnetic domain formation in multiferroic heterostructures. *Advanced Materials*, **2011**, 23, 3187-91	24	124
63	Anomalous magnetic field effects during pulsed injection metal-organic chemical vapor deposition of magnetite films. *Applied Physics Letters*, **2010**, 96, 172502	3.4	7
62	Interlayer exchange coupling and current induced magnetization switching in magnetic tunnel junctions with MgO wedge barrier. *Journal of Applied Physics*, **2010**, 107, 093917	2.5	22
61	Annealing of CoFeB/MgO based single and double barrier magnetic tunnel junctions: Tunnel magnetoresistance, bias dependence, and output voltage. *Journal of Applied Physics*, **2009**, 105, 033916	2.5	47
60	MgO-based double barrier magnetic tunnel junctions with thin free layers. *Journal of Applied Physics*, **2009**, 105, 07C926	2.5	8
59	Influence of the seed layer on structural and electro-acoustic properties of sputter-deposited AlN resonators. *Thin Solid Films*, **2009**, 517, 6588-6592	2.2	8
58	Influence of Substrate Bias on the Structural and Dielectric Properties of Magnetron-Sputtered BaxSr1-xTiO3 Thin Films. *Ferroelectrics*, **2009**, 392, 3-12	0.6	
57	Influence of Interface Roughness, Film Texture, and Magnetic Anisotropy on Exchange Bias in $[{hbox{Pt/Co}}]_{3}/{hbox{IrMn}}$ and ${hbox{IrMn}}/[{hbox{Co/Pt}}]_{3}$ Multilayers. *IEEE Transactions on Magnetics*, **2008**, 44, 238-245	2	19
56	Thermally activated magnetization reversal in exchange-biased [PtCo]3PtIrMn multilayers. *Physical Review B*, **2008**, 77,	3.3	22
55	Influence of buffer layers on the texture and magnetic properties of Co/Pt multilayers with perpendicular anisotropy. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 3950-3953	1.6	9

54	Exchange bias energy in Co/Pt/IrMn multilayers with perpendicular and in-plane anisotropy. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, 151-154	2.8	6
53	Structural and magnetic properties of Co-doped ZnO films grown by pulse-injection MOCVD. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e203-e206	2.8	7
52	Effects of barrier sputtering parameters on Co80Fe10B10/MgO/Co80Fe10B10 magnetic tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e984-e986	2.8	1
51	Magnetization reversal in exchange biased nanocap arrays. *Journal Physics D: Applied Physics*, **2007**, 40, 3005-3010	3	9
50	Structural, magnetic, and transport properties of Fe3O4/Si(111) and Fe3O4/Si(001). *Journal of Applied Physics*, **2007**, 101, 123903	2.5	42
49	Correlation between exchange bias dynamics and magnetization reversal asymmetry in [Pt/Co]3/Pt/IrMn multilayers. *Applied Physics Letters*, **2007**, 90, 082501	3.4	12
48	Size-dependent scaling of perpendicular exchange bias in magnetic nanostructures. *Physical Review B*, **2007**, 75,	3.3	30
47	Ferroelectric parallel-plate capacitors with copper electrodes for high-frequency applications. *Applied Physics Letters*, **2007**, 91, 252902	3.4	10
46	Field sweep rate dynamics in magnetic tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2006**, 296, 118-123	2.8	4
45	Magnetization reversal and field annealing effects in perpendicular exchange-biased Co/Pt multilayers and spin valves with perpendicular magnetization. *Journal of Applied Physics*, **2006**, 99, 083901	2.5	28
44	Giant moment and magnetic anisotropy in Co-doped ZnO films grown by pulse-injection metal organic chemical vapor deposition. *Applied Physics Letters*, **2006**, 89, 232503	3.4	31
43	Influence of annealing on the bias voltage dependence of tunneling magnetoresistance in MgO double-barrier magnetic tunnel junctions with CoFeB electrodes. *Applied Physics Letters*, **2006**, 89, 162501	3.4	32
42	Nanostructures for Spin Electronics **2006**, 403-460		3
41	Magnetization dynamics of perpendicular exchange-biased (Pt/Co)-Pt-IrMn multilayers studied by MOKE microscopy and magnetometry. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 48-52		9
40	Asymmetric magnetization reversal in exchange-biased Co/Pt multilayers. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 169-173	1.3	9
39	Magnetic Tunnel Transistor **2006**, 1-6		
38	Influence of the annealing field strength on exchange bias and magnetoresistance of spin valves with IrMn. *Journal of Applied Physics*, **2005**, 97, 093910	2.5	17
37	Magnetoresistance sensor with an out-of-plane magnetized sensing layer. *Applied Physics Letters*, **2005**, 87, 022504	3.4	42

36	Magnetization reversal in perpendicular exchange-biased multilayers. *European Physical Journal B*, **2005**, 45, 191-195	1.2	17
35	Effects of Ga+ ion implantation on the magnetoresistive properties of spin valves. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 124-126	2.8	13
34	Perpendicular exchange bias in nickel/antiferromagnetic bilayers. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1290-1293	2.8	4
33	IrMn as exchange-biasing material in systems with perpendicular magnetic anisotropy. *Journal of Applied Physics*, **2005**, 97, 10K114	2.5	42
32	Structural characterization of base/collector interfaces for magnetic tunnel transistors grown on Si(001). *Journal of Applied Physics*, **2005**, 97, 104514	2.5	3
31	Correlation between perpendicular exchange bias and magnetic anisotropy in IrMn[Co/Pt]n and [Pt/Co]n/IrMn multilayers. *Journal of Applied Physics*, **2005**, 97, 063907	2.5	48
30	Magnetite Schottky barriers on GaAs substrates. *Applied Physics Letters*, **2005**, 86, 212108	3.4	41
29	The influence of nonmagnetic seed layers on the magnetotransport properties of magnetic tunnel transistors with a silicon collector. *Journal of Applied Physics*, **2005**, 97, 043712	2.5	5
28	Role of Tunneling Matrix Elements in Determining the Magnitude of the Tunneling Spin Polarization of 3d Transition Metal Ferromagnetic Alloys. *Physical Review Letters*, **2005**, 94,	7.4	42
27	Response to "Comment on "Giant magnetocurrent exceeding 3400% in magnetic tunnel transistors with spin-valve base layers" [Appl. Phys. Lett. 84, 4337 (2004)]. *Applied Physics Letters*, **2004**, 84, 4339-4340	3.4	2
26	Transport characteristics of magnetite thin films grown onto GaAs substrates. *Journal of Applied Physics*, **2004**, 95, 7465-7467	2.5	35
25	Bias voltage dependence of magnetocurrent in magnetic tunnel transistors. *Physical Review B*, **2004**, 69,	3.3	17
24	I/V asymmetry and magnetoresistance in nickel nanoconstrictions. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1571-1572	2.8	9
23	Magnetoresistance of Fe3O4/Au/Fe3O4 and Fe3O4/Au/Fe spin-valve structures. *Journal of Magnetism and Magnetic Materials*, **2004**, 280, 322-326	2.8	19
22	Negative magnetoresistance in Fe3O4/Au/Fe spin valves. *Physical Review B*, **2004**, 70,	3.3	24
21	Growth and Investigation of Oxide Heterostructures Containing Half-Metallic Fe3O4. *Solid State Phenomena*, **2004**, 99-100, 133-136	0.4	
20	Optical detection of hot-electron spin injection into GaAs from a magnetic tunnel transistor source. *Physical Review Letters*, **2003**, 90, 256603	7.4	87
19	Nonmonotonic bias voltage dependence of the magnetocurrent in GaAs-based magnetic tunnel transistors. *Physical Review Letters*, **2003**, 90, 197203	7.4	34

18	Comparison of magnetocurrent and transfer ratio in magnetic tunnel transistors with spin-valve bases containing Cu and Au spacer layers. *Applied Physics Letters*, **2003**, 82, 775-777	3.4	28
17	Giant magnetocurrent exceeding 3400% in magnetic tunnel transistors with spin-valve base layers. *Applied Physics Letters*, **2003**, 83, 951-953	3.4	67
16	Spin-dependent hot electron transport in Ni81Fe19 and Co84Fe16 films on GaAs(001). *Physical Review B*, **2002**, 66,	3.3	75
15	Room temperature operation of a high output current magnetic tunnel transistor. *Applied Physics Letters*, **2002**, 80, 3364-3366	3.4	97
14	Influence of the deposition angle on the magnetic anisotropy in thin Co films on Cu(001). *Physical Review B*, **2001**, 63,	3.3	64
13	Kinetic physical etching for versatile novel design of well ordered self-affine nanogrooves. *Physical Review Letters*, **2001**, 86, 4608-11	7.4	55
12	The influence of CO and H2 adsorption on the spin reorientation transition in Ni/Cu(0 0 1). *Journal of Magnetism and Magnetic Materials*, **2000**, 210, 316-328	2.8	49
11	Grazing-incidence metal deposition: Pattern formation and slope selection. *Physical Review B*, **2000**, 61, 14047-14058	3.3	49
10	Dependence of the Curie temperature on the Cu cover layer in xCu/Fe/Cu(001) sandwiches. *Physical Review B*, **2000**, 61, 1303-1310	3.3	41
9	Growth-induced uniaxial anisotropy in grazing-incidence deposited magnetic films. *Applied Physics Letters*, **2000**, 77, 2030-2032	3.4	41
8	Steering-Enhanced Roughening during Metal Deposition at Grazing Incidence. *Physical Review Letters*, **1999**, 82, 4038-4041	7.4	92
7	Spin-reorientation transition in Ni films on Cu(001): The influence of H2 adsorption. *Physical Review B*, **1999**, 60, 6277-6280	3.3	93
6	Energetics and Structure of the Stable and Unstable Biatomic Step Edges of Si(100). *Surface Review and Letters*, **1998**, 05, 15-20	1.1	11
5	Anomalous strong repulsive step-step interaction on slightly misoriented Si(113). *Physical Review B*, **1997**, 55, 7864-7867	3.3	27
4	Direct determination of the step-edge formation energies of the energetically stable and unstable double-layer step edges of Si(001). *Physical Review B*, **1996**, 53, 15429-15431	3.3	8
3	Hot Electron Spintronics		1
2	Direct observation of a dynamical glass transition in a nanomagnetic artificial Hopfield network. *Nature Physics*,	16.2	2
1	Lithium-Ion Battery Technology for Voltage Control of Perpendicular Magnetization. *Advanced Functional Materials*,2113118	15.6	2