

Jan Vogel

List of Publications by Year in descending order

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papers

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76196

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6154
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organised stripe domains and elliptical skyrmion bubbles in ultra-thin epitaxial Au _{0.67} Pt _{0.33} /Co/W(110) films. New Journal of Physics, 2021, 23, 013020.	1.2	10
2	Current-Driven Domain Wall Dynamics in Ferrimagnetic Nickel-Doped Mn ₄ N Films: Very Large Domain Wall Velocities and Reversal of Motion Direction across the Magnetic Compensation Point. Nano Letters, 2021, 21, 2580-2587.	4.5	48
3	Helium Ions Put Magnetic Skyrmions on the Track. Nano Letters, 2021, 21, 2989-2996.	4.5	79
4	Magnetic domain wall dynamics in the precessional regime: Influence of the Dzyaloshinskii-Moriya interaction. Physical Review B, 2021, 104, .	1.1	11
5	Kinetics of Ion Migration in the Electric Field-Driven Manipulation of Magnetic Anisotropy of Pt/Co/Oxide Multilayers. Small, 2021, 17, e2102427.	5.2	7
6	In-Plane Magnetic Domains and Néel-like Domain Walls in Thin Flakes of the Room Temperature CrTe ₂ Van der Waals Ferromagnet. ACS Applied Materials & Interfaces, 2020, 12, 30702-30710.	4.0	63
7	Irreversible Voltage Manipulation of Interfacial Magnetic Anisotropy in Pt/Co/Oxide Multilayers. Physical Review Applied, 2020, 14, .	1.5	14
8	Large Current Driven Domain Wall Mobility and Gate Tuning of Coercivity in Ferrimagnetic Mn ₄ N Thin Films. Nano Letters, 2019, 19, 8716-8723.	4.5	48
9	Nonvolatile Ionic Modification of the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2019, 12, .	1.5	59
10	Current-Driven Skyrmion Dynamics and Drive-Dependent Skyrmion Hall Effect in an Ultrathin Film. Physical Review Applied, 2019, 12, .	1.5	111
11	Steering of magnetic domain walls by single ultrashort laser pulses. Physical Review B, 2019, 99, .	1.1	15
12	Magnetic and magneto-transport properties of Mn ₄ N thin films by Ni substitution and their possibility of magnetic compensation. Journal of Applied Physics, 2019, 125, .	1.1	27
13	Oxidation dependence of the Dzyaloshinskii-Moriya interaction in Pt/Co/Oxide trilayers (T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 252 Td)	1.1	33
14	Fast Domain Wall Motion Governed by Topology and Årsted Fields in Cylindrical Magnetic Nanowires. Physical Review Letters, 2019, 123, 217201.	2.9	45
15	Study of the velocity plateau of Dzyaloshinskii domain walls. Physical Review B, 2019, 100, .	1.1	14
16	Micromagnetics of antiskyrmions in ultrathin films. Physical Review B, 2018, 97, .	1.1	52
17	Magnetic skyrmions in confined geometries: Effect of the magnetic field and the disorder. Journal of Magnetism and Magnetic Materials, 2018, 455, 3-8.	1.0	48
18	Asymmetry of nucleation density and its variation with Pt spacer thickness in exchange-biased [Pt/Co] ₅ /Pt/FeMn multilayers. Journal of Magnetism and Magnetic Materials, 2018, 449, 475-481.	1.0	6

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19	Millimeter-sized magnetic domains in perpendicularly magnetized ferrimagnetic Mn ₄ N thin films grown on SrTiO ₃ . Japanese Journal of Applied Physics, 2018, 57, 120310.	0.8	27
20	Velocity Enhancement by Synchronization of Magnetic Domain Walls. Physical Review Letters, 2018, 120, 227204.	2.9	35
21	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	4.5	60
22	The Skyrmion Switch: Turning Magnetic Skyrmion Bubbles on and off with an Electric Field. Nano Letters, 2017, 17, 3006-3012.	4.5	181
23	Tuning domain wall velocity with Dzyaloshinskii-Moriya interaction. Applied Physics Letters, 2017, 111, .	1.5	40
24	Anisotropic Dzyaloshinskii-Moriya interaction in ultrathin epitaxial Au/Co/W(110). Physical Review B, 2017, 95, .	1.1	69
25	Buffer layer annealing effects on the magnetization reversal process in Pd/Co/Pd systems. Journal of Magnetism and Magnetic Materials, 2016, 420, 102-108.	1.0	2
26	Very large domain wall velocities in Pt/Co/GdOx and Pt/Co/Gd trilayers with Dzyaloshinskii-Moriya interaction. Europhysics Letters, 2016, 113, 67001.	0.7	75
27	Movement of magnetic domain walls induced by single femtosecond laser pulses. Physical Review B, 2016, 94, .	1.1	10
28	Domain wall dynamics in ultrathin Pt/Co/AlOx microstrips under large combined magnetic fields. Physical Review B, 2016, 93, .	1.1	44
29	Room-temperature chiral magnetic skyrmions in ultrathin magnetic nanostructures. Nature Nanotechnology, 2016, 11, 449-454.	15.6	829
30	Manipulating the magnetization direction of transverse domain walls in Permalloy/Ir strips using nanosecond current pulses. Journal of Magnetism and Magnetic Materials, 2016, 397, 152-156.	1.0	0
31	Third type of domain wall in soft magnetic nanostrips. Scientific Reports, 2015, 5, 12417.	1.6	25
32	Velocity asymmetry of Dzyaloshinskii domain walls in the creep and flow regimes. Journal of Physics Condensed Matter, 2015, 27, 326002.	0.7	56
33	IrMn microstructural effects on exchange bias variability in patterned arrays of IrMn/Co square dots. Journal Physics D: Applied Physics, 2014, 47, 195302.	1.3	3
34	Chirality-Induced Asymmetric Magnetic Nucleation in Pt/Co Microstructures. Physical Review Letters, 2014, 113, 047203.	2.9	157
35	Size dependence of magnetic switching in perpendicularly magnetized MgO/Co/Pt pillars close to the spin reorientation transition. Applied Physics Letters, 2014, 104, 012404.	1.5	6
36	Focused Kerr measurements on patterned arrays of exchange biased square dots. EPJ Web of Conferences, 2014, 75, 05003.	0.1	0

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37	Magnetic properties of patterned arrays of exchange-biased IrMn/Co square dots. Journal Physics D: Applied Physics, 2013, 46, 345308.	1.3	3
38	Domain Wall Tilting in the Presence of the Dzyaloshinskii-Moriya Interaction in Out-of-Plane Magnetized Magnetic Nanotracks. Physical Review Letters, 2013, 111, 217203.	2.9	192
39	Electric-field control of domain wall nucleation and pinning in a metallic ferromagnet. Applied Physics Letters, 2013, 102, .	1.5	56
40	Dynamique de lâ€™aimantation Å©tudiÃ©e par rayonnement synchrotron : vers lâ€™Ã©lectronique de demain. 2013, , 38-42.	0.1	0
41	Phase diagram of magnetic domain walls in spin valve nano-strips. Applied Physics Letters, 2012, 100, 172404.	1.5	13
42	Current-induced domain wall motion and magnetization dynamics in CoFeB/Cu/Co nanostripes. Journal of Physics Condensed Matter, 2012, 24, 024213.	0.7	6
43	Direct Observation of Massless Domain Wall Dynamics in Nanostripes with Perpendicular Magnetic Anisotropy. Physical Review Letters, 2012, 108, 247202.	2.9	56
44	Influence of Pt thickness on magnetization reversal processes in (Pt/Co) ₃ multilayers with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 2012, 324, 1869-1877.	1.0	5
45	Exploring the limits of soft x-ray magnetic holography: Imaging magnetization reversal of buried interfaces (invited). Journal of Applied Physics, 2011, 109, 07D357.	1.1	10
46	Fast current-induced domain-wall motion controlled by the Rashba effect. Nature Materials, 2011, 10, 419-423.	13.3	741
47	Compressed exponential form for disordered domain wall motion in ultra-thin Au/Co/Au ferromagnetic films. Journal of Magnetism and Magnetic Materials, 2011, 323, 504-508.	1.0	20
48	Direct observation of Oersted-field-induced magnetization dynamics in magnetic nanostripes. Physical Review B, 2011, 83, .	1.1	25
49	Spin-orbit torques in ultrathin ferromagnetic metal layers. Proceedings of SPIE, 2010, , .	0.8	4
50	Magnetization reversal dynamics in Au/Co/Au(111) ultrathin films: Effect of roughness of the buffer layer. Journal of Magnetism and Magnetic Materials, 2010, 322, 2498-2504.	1.0	10
51	Current-driven spin torque induced by the Rashba effect in a ferromagnetic metal layer. Nature Materials, 2010, 9, 230-234.	13.3	1,162
52	Imaging and quantifying perpendicular exchange biased systems by soft x-ray holography and spectroscopy. Applied Physics Letters, 2010, 96, 072503.	1.5	10
53	Ultrathin epitaxial cobalt films on graphene for spintronic investigations and applications. New Journal of Physics, 2010, 12, 103040.	1.2	74
54	Current-induced motion and pinning of domain walls in spin-valve nanowires studied by XMCD-PEEM. Physical Review B, 2010, 81, .	1.1	40

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55	Magnetization reversal dynamics, nucleation, pinning, and domain wall propagation in perpendicularly magnetized ultrathin cobalt films: Influence of the Co deposition rate. <i>Journal of Applied Physics</i> , 2010, 108, 093924.	1.1	20
56	Domain wall dynamics and interlayer interactions in magnetic trilayer systems studied by XMCD-PEEM. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 505-510.	1.1	4
57	X-ray analysis of oxygen-induced perpendicular magnetic anisotropy in trilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1889-1892.	1.0	28
58	High domain wall velocities induced by current in ultrathin Pt/Co/AlO _x wires with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	204
59	Analysis of oxygen induced anisotropy crossover in Pt/Co/MO _x trilayers. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	200
60	Magnetization reversal of nanostructured tunnel junctions from prepatterned substrates. <i>Journal of Applied Physics</i> , 2008, 103, 07C108.	1.1	0
61	X-ray analysis of the magnetic influence of oxygen in Pt/Co/AlO _x trilayers. <i>Journal of Applied Physics</i> , 2008, 103, 07A912.	1.1	55
62	Symmetry breaking effects in epitaxial magnetic thin films: Nonsymmetric reversal and butterfly remanence behavior. <i>Physical Review B</i> , 2008, 77, .	1.1	20
63	Layer-resolved imaging of domain wall interactions in magnetic tunnel junction-like trilayers. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 476204.	0.7	10
64	Magnetisation reversal of epitaxial films of $\text{Fe}_3\text{Fe}_4\text{N}$ on Cu(100). <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 321-324.	1.0	29
65	Soft X-ray resonant magnetic scattering study of magnetization reversal in low dimensional magnetic heterostructures. <i>Applied Surface Science</i> , 2007, 254, 335-338.	3.1	3
66	Influence of topography and Co domain walls on the magnetization reversal of the FeNi layer in FeNi/Al ₂ O ₃ /Co magnetic tunnel junctions. <i>Physical Review B</i> , 2006, 74, .	1.1	8
67	Nucleation of magnetisation reversal, from nanoparticles to bulk materials. <i>Comptes Rendus Physique</i> , 2006, 7, 977-987.	0.3	33
68	Magnetization reversal, asymmetry, and role of uncompensated spins in perpendicular exchange coupled systems. <i>Applied Physics Letters</i> , 2006, 89, 232507.	1.5	20
69	Dynamics of Magnetic Domain Wall Motion after Nucleation: Dependence on the Wall Energy. <i>Physical Review Letters</i> , 2006, 96, 097204.	2.9	29
70	Magnetic domain pinning in an anisotropy-engineered GdT _b Fe thin film. <i>Journal of Applied Physics</i> , 2006, 100, 033904.	1.1	17
71	Fundamentals of X-ray Absorption and Dichroism: The Multiplet Approach. , 2006, , 3-66.		2
72	Magnetic relaxation measurements of exchange biased (Pt/Co) multilayers with perpendicular anisotropy. <i>European Physical Journal B</i> , 2005, 45, 185-190.	0.6	15

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73	Mobility of domain wall motion in the permalloy layer of a spin-valve-like trilayer. Journal of Magnetism and Magnetic Materials, 2005, 293, 863-871.	1.0	16
74	Interplay between magnetic anisotropy and interlayer coupling in nanosecond magnetization reversal of spin-valve trilayers. Physical Review B, 2005, 71, .	1.1	8
75	Magnetic relaxation of exchange biased Pt/Co multilayers studied by time-resolved Kerr microscopy. Physical Review B, 2005, 72, .	1.1	33
76	Influence of domain wall interactions on nanosecond switching in magnetic tunnel junctions. Physical Review B, 2005, 72, .	1.1	22
77	Nanometers-thick self-organized Fe stripes: bridging the gap between surfaces and magnetic materials. Applied Physics Letters, 2004, 84, 1335-1337.	1.5	13
78	Exploring spin valve magnetization reversal dynamics with temporal, spatial and layer resolution: Influence of domain-wall energy. Applied Physics Letters, 2004, 85, 440-442.	1.5	19
79	Time and layer resolved magnetic domain imaging of FeNi/Cu/Co trilayers using x-ray photoelectron emission microscopy (invited). Journal of Applied Physics, 2004, 95, 6533-6536.	1.1	18
80	Switching-mode-dependent magnetic interlayer coupling strength in spin valves and magnetic tunnel junctions. Physical Review B, 2004, 69, .	1.1	33
81	Field dependent exchange coupling in NiO/Co bilayers. Physical Review B, 2003, 67, .	1.1	40
82	Time-Resolved X-Ray Magnetic Circular Dichroism – A Selective Probe of Magnetization Dynamics on Nanosecond Timescales. , 2003, , 157-187.		6
83	Perpendicular Interlayer Coupling in Ni ₈₀ Fe ₂₀ /NiO/Co Trilayers. Physical Review Letters, 2003, 91, 027201.	2.9	70
84	Time-resolved magnetic domain imaging by x-ray photoemission electron microscopy. Applied Physics Letters, 2003, 82, 2299-2301.	1.5	101
85	Experimental evidence of the ferrimagnetic ground state of Sr ₂ FeMoO ₆ probed by X-ray magnetic circular dichroism. Europhysics Letters, 2002, 60, 608-614.	0.7	77
86	Exchange bias with perpendicular anisotropy in (Pt-Co)/sub n/-FeMn multilayers. IEEE Transactions on Magnetism, 2002, 38, 2730-2735.	1.2	45
87	Spectral sharpening of the Pt L _{2,3} edges by high-resolution x-ray emission. Physical Review B, 2002, 66, .	1.1	104
88	Element-Selective Nanosecond Magnetization Dynamics in Magnetic Heterostructures. Physical Review Letters, 2001, 86, 3646-3649.	2.9	76
89	Dichroism in X-ray Absorption. Lecture Notes in Physics, 2001, , 87-108.	0.3	5
90	X-ray absorption analysis of sputter-grown Co/Pt stackings before and after helium irradiation. European Physical Journal B, 2001, 22, 193-201.	0.6	32

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91	Magnetic circular dichroism in Co 2p photoemission of Co/Cu(1 1 13): Separation of the fundamental spectra. <i>European Physical Journal B</i> , 2001, 19, 281-287.	0.6	9
92	Beam-induced magnetic property modifications: Basics, nanostructure fabrication and potential applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 175-177, 375-381.	0.6	34
93	Correlation effects and satellite intensities in photoemission from ferromagnetic interfaces: Co, Fe, Cr on Cu(1113). <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 233, 57-59.	1.0	2
94	Magnetic characterisation and X-ray magnetic circular dichroism study of amorphous YCo ₂ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 233, 84-87.	1.0	9
95	Dynamical properties of magnetization reversal in exchange-coupled NiO/Co bilayers. <i>Physical Review B</i> , 2001, 64, .	1.1	20
96	Magnetization reversal dynamics in exchange-coupled NiO-Co bilayers. <i>Journal of Applied Physics</i> , 2001, 89, 6585-6587.	1.1	9
97	In-plane magnetic anisotropy of stepped epitaxial Fe(001) thin films probed by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2001, 63, .	1.1	2
98	Evidence for a high-spin Fe phase in Fe/Pd(001) multilayers. <i>Europhysics Letters</i> , 2000, 49, 807-813.	0.7	15
99	Magnetic linear dichroism in x-ray emission spectroscopy: Yb in Yb ₃ Fe ₅ O ₁₂ . <i>Physical Review B</i> , 2000, 62, 379-384.	1.1	3
100	Magnetic and electronic properties of Ce(111) thin films. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 1138-1139.	1.3	2
101	High energy resonant photoemission and resonant Auger spectroscopy in mixed valent Ce compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 787-791.	0.8	1
102	Magnetic and electronic properties of epitaxial ¹³⁷ Ce thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 276-278.	1.0	8
103	Ce Electronic Structure Studied by Resonant Electron Spectroscopies. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 617-623.	0.7	1
104	L ₃ and M _{4,5} absorption edges of intermediate valent cerium unravelled by resonant photoemission and resonant Auger spectroscopy. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 290-292.	1.0	4
105	Interface orbital moment anisotropy in CoPd multilayers. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 1201-1203.	1.2	5
106	Temperature and thickness dependence of magnetic moments in NiO epitaxial films. <i>Physical Review B</i> , 1998, 57, 11623-11631.	1.1	254
107	Magnetocrystalline anisotropy in (111) CoPt ₃ thin film with growth-induced chemical anisotropy investigated by x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 1998, 83, 6617-6619.	1.1	9
108	High-energy resonant photoemission and resonant Auger spectroscopy in Ce-Rh compounds. <i>Physical Review B</i> , 1998, 58, 1080-1083.	1.1	17

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109	Enhanced orbital magnetism at the nanostructured Co/Cu(1 1 13) surface. <i>Physical Review B</i> , 1998, 58, R11853-R11856.	1.1	23
110	Magnetic dichroism in reflectivity and photoemission using linearly polarized light: 3p core level of Ni(110). <i>Physical Review B</i> , 1998, 58, 3750-3754.	1.1	25
111	Magnetocrystalline anisotropy in (111)CoPt thin films probed by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 1998, 58, 6298-6304.	1.1	100
112	Structure and magnetism of Pd in Pd/Fe multilayers studied by x-ray magnetic circular dichroism at the Pd L _{2,3} edges. <i>Physical Review B</i> , 1997, 55, 3663-3669.	1.1	129
113	Grazing incidence reflectivity and total electron yield effects in soft x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , 1997, 82, 3120-3124.	1.1	13
114	Microscopic origin of the macroscopic magnetic properties of TbFeCoN amorphous thin films. <i>Physical Review B</i> , 1997, 56, 8149-8155.	1.1	19
115	Palladium magnetism in Pd/Fe multilayers studied by XMCD at the Pd L _{2,3} edges. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 96-99.	1.0	22
116	An X-ray dichroism study of magnetic and crystal field effects in thin rare earth overlayers. <i>Surface Science</i> , 1996, 365, 831-839.	0.8	5
117	Magnetic moments in as-deposited and annealed Ni layers on Fe(001): An x-ray-dichroism study. <i>Physical Review B</i> , 1996, 53, 3409-3414.	1.1	20
118	Soft X-ray absorption spectroscopy in transmission mode: Ce M _{4,5} edges. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 71, 31-37.	0.8	10
119	Absorption cross sections at the M _{4,5} edges of rare earths: a soft X-ray transmission experiment. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 74, 187-194.	0.8	20
120	Resonant 3d photoemission of La and Ce around the L ₃ absorption edge in LaPd and CePd. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 735-740.	0.8	8
121	Magnetic circular dichroism in transmission mode at the Ni 2p edges. <i>Solid State Communications</i> , 1995, 93, 25-28.	0.9	5
122	Cu 2p X-ray absorption spectroscopy of thin copper films grown on Fe(001). <i>Solid State Communications</i> , 1995, 94, 569-572.	0.9	4
123	Magnetic effects on the resonant X-ray reflectivity: circular dichroism at the 2p edges of Ni. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 147, L11-L15.	1.0	16
124	Magnetic properties of Fe and Tb in Tb _x Fe _{1-x} amorphous films studied with soft X-ray circular and linear dichroism. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 150, 293-303.	1.0	20
125	Surface crystal field at the Er/Si(111) interface studied by soft-x-ray linear dichroism. <i>Physical Review B</i> , 1995, 52, 14035-14039.	1.1	10
126	X-ray-absorption study of the magnetic moments in thin Ni layers on Fe(100). <i>Physical Review B</i> , 1994, 50, 7157-7160.	1.1	26

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127	Polarization and angular dependence of the L _{2,3} absorption edges in Ni(110). Physical Review B, 1994, 49, 3230-3234.	1.1	63
128	Experimental estimate of absorption length and total electron yield (TEY) probing depth in dysprosium. Journal of Electron Spectroscopy and Related Phenomena, 1994, 67, 181-188.	0.8	57
129	The electronic structure of mesoscopic NiO particles. Chemical Physics Letters, 1993, 208, 460-464.	1.2	60
130	X-ray dichroism of Dy overlayers on a magnetic substrate. Applied Surface Science, 1993, 65-66, 170-174.	3.1	6
131	Chemical changes induced by sputtering in TiO ₂ and some selected titanates as observed by X-ray absorption spectroscopy. Surface Science, 1993, 290, 427-435.	0.8	68
132	Linear-dichroism studies of thin Dy overlayers on Ni(110) and Cu(110) substrates. Physical Review B, 1993, 48, 2711-2720.	1.1	13
133	Linear and circular dichroism with soft X-rays. Journal of Electron Spectroscopy and Related Phenomena, 1992, 58, 393-398.	0.8	10
134	Dependence of coercivity on maximum applied field in dynamic magnetization reversal of Co/NiO bilayers. , 0, , .		0
135	Dependence of Neel "orange-peel" coupling on magnetization reversal process. , 0, , .		0
136	90° coupling in NiFe/NiO/Co trilayers. , 0, , .		0
137	High Domain Wall Velocity at Zero Magnetic Field Induced by Low Current Densities in Spin Valve Nanostripes. Applied Physics Express, 0, 2, 023003.	1.1	32