

Del Atkinson

List of Publications by Year in descending order

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126
papers

5,632
citations

186254

28
h-index

76898

74
g-index

127
all docs

127
docs citations

127
times ranked

4047
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Domain-Wall Logic. <i>Science</i> , 2005, 309, 1688-1692.	12.6	1,882
2	Submicrometer Ferromagnetic NOT Gate and Shift Register. <i>Science</i> , 2002, 296, 2003-2006.	12.6	524
3	Magnetic domain-wall dynamics in a submicrometre ferromagnetic structure. <i>Nature Materials</i> , 2003, 2, 85-87.	27.5	373
4	Domain wall propagation in magnetic nanowires by spin-polarized current injection. <i>Europhysics Letters</i> , 2004, 65, 526-532.	2.0	318
5	Amorphous wires and their applications. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 132, 10-21.	2.3	180
6	“Fingerprinting” documents and packaging. <i>Nature</i> , 2005, 436, 475-475.	27.8	178
7	Dependence of domain wall pinning potential landscapes on domain wall chirality and pinning site geometry in planar nanowires. <i>Physical Review B</i> , 2009, 79, .	3.2	135
8	Controlling domain wall pinning in planar nanowires by selecting domain wall type and its application in a memory concept. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	110
9	Magnetic domain wall propagation in nanowires under transverse magnetic fields. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	94
10	Arrays of nanoscale magnetic dots: Fabrication by x-ray interference lithography and characterization. <i>Applied Physics Letters</i> , 2004, 85, 4989-4991.	3.3	83
11	Amorphous InGaZnO and metal oxide semiconductor devices: an overview and current status. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12388-12414.	5.5	81
12	Interfacial Structure Dependent Spin Mixing Conductance in Cobalt Thin Films. <i>Physical Review Letters</i> , 2015, 115, 056601.	7.8	78
13	Phenomenological model for magnetoimpedance in soft ferromagnets. <i>Journal of Applied Physics</i> , 1998, 83, 6569-6571.	2.5	71
14	Evolution of damping in ferromagnetic/nonmagnetic thin film bilayers as a function of nonmagnetic layer thickness. <i>Physical Review B</i> , 2016, 93, .	3.2	66
15	Artificial domain wall nanotraps in Ni ₈₁ Fe ₁₉ wires. <i>Journal of Applied Physics</i> , 2004, 95, 6717-6719.	2.5	65
16	The interfacial nature of proximity-induced magnetism and the Dzyaloshinskii-Moriya interaction at the Pt/Co interface. <i>Scientific Reports</i> , 2017, 7, 16835.	3.3	62
17	Dependence of Domain-Wall Depinning Threshold Current on Pinning Profile. <i>Physical Review Letters</i> , 2009, 102, 127203.	7.8	60
18	Magnetic damping phenomena in ferromagnetic thin-films and multilayers. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 473001.	2.8	59

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19	Experimental study of the influence of edge roughness on magnetization switching in Permalloy nanostructures. Applied Physics Letters, 2004, 85, 3510-3512.	3.3	56
20	Experimental and phenomenological investigation of the effect of stress on magneto-impedance in amorphous alloys. IEEE Transactions on Magnetism, 1997, 33, 3364-3366.	2.1	55
21	The effect of geometrical confinement and chirality on domain wall pinning behavior in planar nanowires. Journal of Applied Physics, 2008, 104, .	2.5	52
22	Tunable Magnetization Dynamics in Interfacially Modified Ni81Fe19/Pt Bilayer Thin Film Microstructures. Scientific Reports, 2015, 5, 17596.	3.3	39
23	Magnetostrictive and magnetoelastic properties of rapidly quenched wire. IEEE Transactions on Magnetism, 1995, 31, 1239-1248.	2.1	38
24	Shifted hysteresis loops from magnetic nanowires. Applied Physics Letters, 2002, 81, 4005-4007.	3.3	37
25	Magnetic domain wall dynamics in a permalloy nanowire. IEEE Transactions on Magnetism, 2003, 39, 2663-2665.	2.1	34
26	Suppression of Walker breakdown in magnetic domain wall propagation through structural control of spin wave emission. Applied Physics Letters, 2013, 102, .	3.3	34
27	Local control of magnetic damping in ferromagnetic/non-magnetic bilayers by interfacial intermixing induced by focused ion-beam irradiation. Applied Physics Letters, 2014, 104, .	3.3	30
28	An integrating magnetic sensor based on the giant magneto-impedance effect. Sensors and Actuators A: Physical, 2000, 81, 82-85.	4.1	29
29	Controlled switching of ferromagnetic wire junctions by domain wall injection. IEEE Transactions on Magnetism, 2003, 39, 2860-2862.	2.1	29
30	Time-domain detection of current controlled magnetization damping in Pt/Ni81Fe19 bilayer and determination of Pt spin Hall angle. Applied Physics Letters, 2014, 105, .	3.3	29
31	Cobalt-Doped ZnO Nanorods Coated with Nanoscale Metal-Organic Framework Shells for Water-Splitting Photoanodes. ACS Applied Nano Materials, 2020, 3, 7781-7788.	5.0	29
32	The effect of annealing and crystallization on the magnetoelastic properties of Fe-Si amorphous wire. Journal of Applied Physics, 1993, 73, 3411-3417.	2.5	26
33	Domain wall anisotropic magnetoresistance in planar nanowires. Applied Physics Letters, 2009, 94, 042511.	3.3	26
34	Spin transport across the interface in ferromagnetic/nonmagnetic systems. Physical Review B, 2019, 99, .	3.2	26
35	Which anhysteretic magnetization curve?. IEEE Transactions on Magnetism, 1997, 33, 3970-3972.	2.1	24
36	Characterization of submicrometer ferromagnetic NOT gates. Journal of Applied Physics, 2004, 95, 8264-8270.	2.5	24

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37	Edge roughness and coercivity in magnetic nanostructures. Journal of Physics: Conference Series, 2005, 17, 40-44.	0.4	24
38	Palaeomagnetic study of the Derbyshire lavas and intrusions, central England: definition of Carboniferous apparent polar wander. Physics of the Earth and Planetary Interiors, 1991, 69, 37-55.	1.9	19
39	Tactile sensing in human-computer interfaces: The inclusion of pressure sensitivity as a third dimension of user input. Sensors and Actuators A: Physical, 2015, 232, 229-250.	4.1	19
40	Magnetization switching and domain-wall propagation behavior in edge-modulated ferromagnetic nanowire structures. Physical Review B, 2013, 88, .	3.2	18
41	Densification of a-IGZO with low-temperature annealing for flexible electronics applications. Applied Physics Letters, 2017, 110, .	3.3	17
42	Implications of magnetic and magnetoelastic measurements for the domain structure of FeSiB amorphous wires. Journal Physics D: Applied Physics, 1994, 27, 1354-1362.	2.8	16
43	A multi-component nanocomposite screen-printed ink with non-linear touch sensitive electrical conductivity. Nanotechnology, 2013, 24, 165501.	2.6	16
44	Heat-assisted magnetization switching in elongated submicrometer Permalloy structures. Applied Physics Letters, 2004, 85, 1386-1388.	3.3	15
45	Multimode switching induced by a transverse field in planar magnetic nanowires. Applied Physics Letters, 2006, 88, 032505.	3.3	15
46	Spin-transfer torque efficiency measured using a Permalloy nanobridge. Applied Physics Letters, 2010, 97, 202505.	3.3	15
47	Magneto-impedance and $\hat{\mu}^*E$ measurements of iron- and cobalt-based amorphous wires. IEEE Transactions on Magnetics, 1995, 31, 3892-3894.	2.1	14
48	Comparison of magnetoelastic resonance and vibrating reed measurements of the large $\hat{\mu}^*E$ effect in amorphous alloys. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 273-274.	2.3	13
49	Chirality-dependent domain wall pinning in a multinotched planar nanowire and chirality preservation using transverse magnetic fields. Journal of Applied Physics, 2011, 109, 013903.	2.5	13
50	Study of focused-ion-beam-induced structural and compositional modifications in nanoscale bilayer systems by combined grazing incidence x ray reflectivity and fluorescence. Journal of Applied Physics, 2012, 111, 044324.	2.5	13
51	Controlling the stability of both the structure and velocity of domain walls in magnetic nanowires. Applied Physics Letters, 2016, 109, .	3.3	13
52	Control of domain wall pinning by localised focused Ga ⁺ ion irradiation on Au capped NiFe nanowires. Journal of Applied Physics, 2014, 116, .	2.5	12
53	Temperature Dependence of Electrical Transport in a Pressure-Sensitive Nanocomposite. ACS Applied Materials & Interfaces, 2014, 6, 12573-12580.	8.0	12
54	Domain-Wall Dynamics in Magnetic Logic Devices. , 0, , 207-223.		11

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55	Enhanced electron-magnon scattering in ferromagnetic thin films and the breakdown of the Mott two-current model. <i>Physical Review B</i> , 2014, 90, .	3.2	11
56	High-resolution Delta E measurements of Fe-Si-B amorphous wire. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 3478-3480.	2.1	10
57	The magnetic and magnetoelastic properties of surface crystallized iron-based amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 131, 19-28.	2.3	10
58	The effect of annealing and crystallization on the magnetoelastic properties of Co ₆₀ Si ₁₀ B amorphous wires. <i>Journal of Applied Physics</i> , 1996, 79, 1664-1669.	2.5	10
59	Thin single layer materials for device application. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 257, 387-396.	2.3	10
60	Room temperature performance of submicron bismuth Hall probes. <i>IET Science, Measurement and Technology</i> , 2004, 151, 127-130.	0.7	10
61	Fine particle magnetic mineralogy of archaeological ceramics. <i>Journal of Physics: Conference Series</i> , 2005, 17, 145-149.	0.4	10
62	Spin polarization and exchange coupling of Cu and Mn atoms in paramagnetic CuMn diluted alloys induced by a Co layer. <i>Physical Review B</i> , 2010, 82, .	3.2	10
63	Magnetic field alignment of template released ferromagnetic nanowires. <i>Journal of Applied Physics</i> , 2012, 112, 013910.	2.5	10
64	Precise control of interface anisotropy during deposition of Co/Pd multilayers. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	10
65	Focused-ion-beam induced interfacial intermixing of magnetic bilayers for nanoscale control of magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 236002.	1.8	10
66	Understanding the role of damping and Dzyaloshinskii-Moriya interaction on dynamic domain wall behaviour in platinum-ferromagnet nanowires. <i>Scientific Reports</i> , 2017, 7, 4569.	3.3	10
67	The role of low Gd concentrations on magnetisation behaviour in rare earth:transition metal alloy films. <i>Scientific Reports</i> , 2020, 10, 9767.	3.3	10
68	Scaling Behaviour of Chirality Dependent Domain Wall Pinning in Planar Nanowires. <i>Acta Physica Polonica A</i> , 2010, 118, 719-722.	0.5	10
69	Proximity-induced magnetism and the enhancement of damping in ferromagnetic/heavy metal systems. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
70	Rapid tuning of Ni ₈₁ Fe ₁₉ /Au bilayer magnetic properties by focused ion beam intermixing. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 319, 9-12.	2.3	9
71	Manipulation of magnetization reversal of Ni ₈₁ Fe ₁₉ nanoellipse arrays by tuning the shape anisotropy and the magnetostatic interactions. <i>Journal of Applied Physics</i> , 2012, 111, 07B909.	2.5	9
72	Design of a digitally based $\hat{\nu}$ E measurement system. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 4569-4571.	2.1	8

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73	Nanosecond pulsed field magnetization reversal in thin-film NiFe studied by Kerr effect magnetometry. Journal Physics D: Applied Physics, 2001, 34, 3019-3023.	2.8	8
74	Itinerant electron transport in microscopically inhomogeneous magnetic fields. Journal of Magnetism and Magnetic Materials, 2006, 299, 356-361.	2.3	8
75	Influence of interactions on magnetization behavior of arrays of nanostructures with uniaxial anisotropy. Journal of Applied Physics, 2008, 103, 033905.	2.5	8
76	Controlling the growth of single crystal ZnO nanowires by tuning the atomic layer deposition parameters of the ZnO seed layer. Nanotechnology, 2019, 30, 305602.	2.6	8
77	Controlled domain wall nucleation and resulting magnetoresistance in Ni ₈₁ Fe ₁₉ nanoconstrictions. Journal of Applied Physics, 2008, 103, .	2.5	7
78	Temperature dependence of magnetically dead layers in ferromagnetic thin-films. AIP Advances, 2017, 7, 115022.	1.3	7
79	Proximity-induced magnetism in Pt layered with rare-earth transition-metal ferrimagnetic alloys. Physical Review Research, 2020, 2, .	3.6	7
80	Magnetic damping in ferromagnetic/heavy-metal systems: The role of interfaces and the relation to proximity-induced magnetism. Physical Review B, 2022, 105, .	3.2	7
81	Multilevel 3 Bit-per-cell Magnetic Random Access Memory Concepts and Their Associated Control Circuit Architectures. IEEE Nanotechnology Magazine, 2012, 11, 63-70.	2.0	6
82	Engineering magnetostriction measurements of annealed FeSiB amorphous wires. IEEE Transactions on Magnetics, 1994, 30, 4782-4784.	2.1	5
83	Characterisation of charge conduction networks in poly(3-hexylthiophene)/polystyrene blends using noise spectroscopy. Journal of Materials Chemistry C, 2014, 2, 1742.	5.5	5
84	Interfacial contribution to thickness dependent in-plane anisotropic magnetoresistance. AIP Advances, 2015, 5, 127108.	1.3	5
85	Spin current propagation through ultra-thin insulating layers in multilayered ferromagnetic systems. Applied Physics Letters, 2020, 116, 042403.	3.3	5
86	Patterning nanostructures to study magnetization processes. Journal of Physics: Conference Series, 2005, 17, 33-39.	0.4	4
87	Publisher's Note: Evolution of damping in ferromagnetic/nonmagnetic thin film bilayers as a function of nonmagnetic layer thickness [Phys. Rev. B, 054402 (2016)]. Physical Review B, 2016, 93, .	3.2	4
88	Effective pinning energy landscape perturbations for propagating magnetic domain walls. Scientific Reports, 2016, 6, 34517.	3.3	4
89	Efficient current-induced magnetization reversal by spin-orbit torque in Pt/Co/Pt. Journal of Applied Physics, 2018, 124, .	2.5	4
90	Controlling Anisotropy of NiFe Thin Films During Deposition for Device Applications. Sensor Letters, 2013, 11, 13-20.	0.4	4

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91	Domain structure studies by means of high-resolution 1H measurements. IEEE Transactions on Magnetism, 1994, 30, 4803-4805.	2.1	3
92	A magnetoelastic study of a transverse creep-induced magnetic anisotropy in an FeNb-based amorphous alloy. Journal of Magnetism and Magnetic Materials, 1996, 153, 63-74.	2.3	3
93	Magnetoelastic behaviour of amorphous bimetallic ribbons. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 156-158.	2.3	3
94	Magnetoelastic coupling constant of amorphous ferromagnetic alloys-A critical study. IEEE Transactions on Magnetism, 2000, 36, 3241-3243.	2.1	3
95	Publisher's Note: Interfacial Structure Dependent Spin Mixing Conductance in Cobalt Thin Films [Phys. Rev. Lett. 115 (2015), 056601 (2015)]. Physical Review Letters, 2015, 115, .	7.8	3
96	Aspect-ratio dependence of magnetization reversal in cylindrical ferromagnetic nanowires. Materials Research Express, 2016, 3, 056104.	1.6	3
97	The role of mesoscopic structuring on the intermixing of spin-polarised conduction channels in thin-film ferromagnets for spintronics. Nanotechnology, 2017, 28, 375703.	2.6	3
98	Optical properties and carrier dynamics in Co-doped ZnO nanorods. Nanoscale Advances, 2021, 3, 214-222.	4.6	3
99	1H effect in amorphous microwires and fibres. Journal of Magnetism and Magnetic Materials, 1999, 195, 362-365.	2.3	2
100	The spin polarization of Mn atoms in paramagnetic CuMn alloys induced by a Co layer. Journal of Applied Physics, 2009, 105, 07C703.	2.5	2
101	Complex pulsed field magnetization behavior and Walker breakdown in a NiFe thin-film. Journal of Applied Physics, 2010, 108, 073926.	2.5	2
102	Interface enhanced precessional damping in spintronic multilayers: A perspective. Journal of Applied Physics, 2022, 131, .	2.5	2
103	Properties of Giant Magneto-Impedance Material for A Novel Integrating Magnetic Sensor. Materials Research Society Symposia Proceedings, 1999, 577, 499.	0.1	1
104	Nanosecond pulsed field magnetization reversal in thin-film Permalloy studied by Kerr effect magnetometry. , 0, , .		1
105	Pulsed-field and heat-assisted magnetization switching behaviour in elongated sub-micrometer Permalloy structures. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 165-167.	2.3	1
106	X-ray scattering from two-dimensionally patterned magnetic thin film nanoscale arrays. Superlattices and Microstructures, 2007, 41, 163-167.	3.1	1
107	Vapor sensing properties of a conductive polymer composite containing Nickel particles with nano-scale surface features. , 2013, , .		1
108	Ferromagnetic Resonance of FeNi/Cu/FeNi Thin Film on Coplanar Waveguide with Operating Frequency of 1 to 20 GHz. Russian Physics Journal, 2020, 63, 1-8.	0.4	1

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109	High Resolution ΔE Measurements Of Fe-Si-B Amorphous Wire. , 1993, , .		0
110	Which Anhysteretic Magnetisation Curve?. , 0, , .		0
111	Scanning Hall Probe Microscopy Of Ferromagnetic Structures. , 0, , .		0
112	Experimental And Phenomenological Investigation Of The Effect Of Stress On Magnetoimpedance In Amorphous Alloys. , 0, , .		0
113	Magnetoelastic coupling constant of amorphous ferromagnetic alloys. a critical study. , 0, , .		0
114	Control of coercivity and memory effect in magnetic nanowires. , 0, , .		0
115	Magnetic nanostructure fabrication by focused ion beam milling. , 0, , .		0
116	Comparison of simple low-energy ion sources for direct deposition of submicron structures. Nanotechnology, 2003, 14, 416-422.	2.6	0
117	Submicron ferromagnetic logic AND/OR gates. , 0, , .		0
118	Magnetic domain wall dynamics in a Permalloy planar nanowire. , 0, , .		0
119	Electrical transport properties of thin Ni films subjected to an array of nanomagnets. , 0, , .		0
120	Magnetization Processes in Thin-Film Nanostructures. ECS Meeting Abstracts, 2006, , .	0.0	0
121	Conductive AFM: Probing Nano-scale Electrical Properties of Model Cell Membranes. Materials Research Society Symposia Proceedings, 2012, 1465, 50.	0.1	0
122	Current-driven domain wall motion in artificial magnetic domain structures. Journal of the Korean Physical Society, 2013, 62, 1534-1538.	0.7	0
123	Temperature dependence of non-linear electrical conduction behavior in a screen-printed multi-component nanocomposite. , 2013, , .		0
124	A novel screen-printed multi-component nanocomposite ink with a pressure sensitive electrical resistance functionality. , 2013, , .		0
125	Printable, Transparent Force Sensing Resistive Materials for Touchscreen Applications. Key Engineering Materials, 0, 644, 120-124.	0.4	0
126	Measurements and modelling of magnetization behaviour in nanoscale structures. , 2006, , .		0