

# Ivan K Schuller

## List of Publications by Year in descending order

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232  
papers

15,824  
citations

34016

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17055

122  
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233  
docs citations

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times ranked

11439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Spin-Orbit Torques Across the Phase Transition in VO <sub>2</sub> /NiFe Heterostructure. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
2	Photovoltaic sensing of a memristor based in LSMO/BTO/ITO ferroionic tunnel junctions. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
3	Generation of Tunable Stochastic Sequences Using the Insulator-Metal Transition. <i>Nano Letters</i> , 2022, 22, 1251-1256.	4.5	11
4	Emergence of exchange bias and giant coercive field enhancement by internal magnetic frustration in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 550, 169077.	1.0	3
5	Exponential Escape Rate of Filamentary Incubation in Mott Spiking Neurons. <i>Physical Review Applied</i> , 2022, 17, .	1.5	11
6	Direct Observation of the Electrically Triggered Insulator-Metal Transition in V <sub>3</sub> O <sub>5</sub> Far below the Transition Temperature. <i>Physical Review X</i> , 2022, 12, .	2.8	13
7	Determining the Oxygen Stoichiometry of Cobaltite Thin Films. <i>Chemistry of Materials</i> , 2022, 34, 2076-2084.	3.2	2
8	Neuromorphic computing: Challenges from quantum materials to emergent connectivity. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	9
9	Wireless Force-Inducing Neuronal Stimulation Mediated by High Magnetic Moment Microdiscs. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101826.	3.9	8
10	The impact of the suppression of highly connected protein interactions on the corona virus infection. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
11	Stress-tailoring magnetic anisotropy of VO <sub>2</sub> /Ni bilayers. <i>Physical Review Materials</i> , 2022, 6, .	0.9	0
12	Controlling Metal-Insulator Transitions in Vanadium Oxide Thin Films by Modifying Oxygen Stoichiometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 887-896.	4.0	24
13	Driving magnetic domains at the nanoscale by interfacial strain-induced proximity. <i>Nanoscale</i> , 2021, 13, 4985-4994.	2.8	5
14	<i>Operando</i> characterization of conductive filaments during resistive switching in Mott VO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
15	Metal-insulator transition in VO <sub>2</sub> with intrinsic defects. <i>Physical Review B</i> , 2021, 103, .	1.1	5
16	Energy-efficient Mott activation neuron for full-hardware implementation of neural networks. <i>Nature Nanotechnology</i> , 2021, 16, 680-687.	15.6	73
17	Quantum Sensing of Insulator-Metal Transitions in a Mott Insulator. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000142.	1.8	5
18	A hybrid optoelectronic Mott insulator. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	8

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19	Switchable Optically Active Schottky Barrier in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{BaTiO}_3/\text{ITO}$ Ferroelectric Tunnel Junction. <i>Advanced Electronic Materials</i> , 2021, 7, 2100069.	2.6	13
20	Cation and anion topotactic transformations in cobaltite thin films leading to Ruddlesden-Popper phases. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
21	A quantum material spintronic resonator. <i>Scientific Reports</i> , 2021, 11, 15082.	1.6	3
22	Spatiotemporal characterization of the field-induced insulator-to-metal transition. <i>Science</i> , 2021, 373, 907-911.	6.0	52
23	Inherent stochasticity during insulator-metal transition in $\text{VO}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
24	Transverse barrier formation by electrical triggering of a metal-to-insulator transition. <i>Nature Communications</i> , 2021, 12, 5499.	5.8	12
25	Imaging the itinerant-to-localized transmutation of electrons across the metal-to-insulator transition in $\text{V}_2\text{O}_3$ . <i>Science Advances</i> , 2021, 7, eabj1164.	4.7	6
26	Imaging of Electrothermal Filament Formation in a Mott Insulator. <i>Physical Review Applied</i> , 2021, 16, .	1.5	9
27	Magnetism dynamics driven by phase separation in Pr-doped manganite thin films: A ferromagnetic resonance study. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
28	Emerging Magnetic Interactions in van der Waals Heterostructures. <i>Nano Letters</i> , 2020, 20, 7852-7859.	4.5	5
29	Helical spin structure in iron chains with hybridized boundaries. <i>Applied Physics Letters</i> , 2020, 117, 213105.	1.5	4
30	Nanoscale Imaging and Control of Volatile and Non-Volatile Resistive Switching in $\text{VO}_2$ . <i>Small</i> , 2020, 16, e2005439.	5.2	27
31	Nanoimaging of Electrical Failure in $\text{VO}_2$ Resistive-Switching Nanodevices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2357-2362.	2.0	3
32	Acoustoelectric drag current in vanadium oxide films. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	2
33	Percolation and nanosecond fluctuators in $\text{V}_2\text{O}_3$ films within the metal-insulator transition. <i>APL Materials</i> , 2020, 8, .	2.2	3
34	Structural Manipulation of Phase Transitions by Self-Induced Strain in Geometrically Confined Thin Films. <i>Advanced Functional Materials</i> , 2020, 30, 2005939.	7.8	17
35	Enhanced positive and negative exchange bias in $\text{Fe}_2/\text{Ni}$ with dusted interfaces. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	4
36	Hydrostatic pressure mapping of barium titanate phase transitions with quenched $\text{FeRh}$ . <i>Scientific Reports</i> , 2020, 10, 6312.	1.6	7

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37	Magnetic field frustration of the metal-insulator transition in $\langle \mathbf{V}_2\text{O}_3 \rangle$ . <a href="#">Physical Review B, 2020, 101, .</a>	1.1	20
38	Non-thermal resistive switching in Mott insulator nanowires. <a href="#">Nature Communications, 2020, 11, 2985.</a>	5.8	77
39	A caloritronics-based Mott neuristor. <a href="#">Scientific Reports, 2020, 10, 4292.</a>	1.6	52
40	Superconductivity found in meteorites. <a href="#">Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7645-7649.</a>	3.3	26
41	Temperature trends and correlation between SQUID superparamagnetic relaxometry and dc-magnetization on model iron-oxide nanoparticles. <a href="#">Journal of Applied Physics, 2020, 127, .</a>	1.1	6
42	Organismic materials for beyond von Neumann machines. <a href="#">Applied Physics Reviews, 2020, 7, .</a>	5.5	30
43	Ultradense Arrays of Sub-100 nm Co/CoO Nanodisks for Spintronics Applications. <a href="#">ACS Applied Nano Materials, 2020, 3, 4037-4044.</a>	2.4	9
44	Chiral symmetry and scale invariance breaking in spin chains. <a href="#">AIP Advances, 2020, 10, 025215.</a>	0.6	4
45	Detection of uncompensated magnetization at the interface of an epitaxial antiferromagnetic insulator. <a href="#">Physical Review B, 2020, 102, .</a>	1.1	1
46	Robust Coupling between Structural and Electronic Transitions in a Mott Material. <a href="#">Physical Review Letters, 2019, 122, 057601.</a>	2.9	54
47	Thermally Reconfigurable Meta-Optics. <a href="#">IEEE Photonics Journal, 2019, 11, 1-16.</a>	1.0	13
48	Subthreshold firing in Mott nanodevices. <a href="#">Nature, 2019, 569, 388-392.</a>	13.7	139
49	Giant nonvolatile resistive switching in a Mott oxide and ferroelectric hybrid. <a href="#">Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8798-8802.</a>	3.3	41
50	Intertwined magnetic, structural, and electronic transitions in $\text{V}_2\text{O}_3$ . <a href="#">Physical Review B, 2019, 100, .</a> <a href="#">Coexistence of multiphase superconductivity and ferromagnetism in lithiated iron selenide hydroxide</a>	1.1	14
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55	Challenges in materials and devices for resistive-switching-based neuromorphic computing. Journal of Applied Physics, 2018, 124, .	1.1	155
56	Origin of the current-driven breakdown in vanadium oxides: Thermal versus electronic. Physical Review B, 2018, 98, .	1.1	30
57	Preface to Special Topic: New Physics and Materials for Neuromorphic Computation. Journal of Applied Physics, 2018, 124, .	1.1	7
58	Broadband Electrically Tunable Dielectric Resonators Using Metal-Insulator Transitions. ACS Photonics, 2018, 5, 4056-4060.	3.2	54
59	Nonequilibrium Phase Precursors during a Photoexcited Insulator-to-Metal Transition in $V_2O_3$ . Physical Review Letters, 2018, 120, 207601.	2.9	39
60	Resistive asymmetry due to spatial confinement in first-order phase transitions. Physical Review B, 2018, 98, .	1.1	10
61	Search for New Superconductors: an Electro-Magnetic Phase Transition in an Iron Meteorite Inclusion at 117 K. Journal of Superconductivity and Novel Magnetism, 2017, 30, 297-304.	0.8	4
62	Dipole-induced exchange bias. Nanoscale, 2017, 9, 17074-17079.	2.8	15
63	Growth-Induced In-Plane Uniaxial Anisotropy in $V_2O_3$ /Ni Films. Scientific Reports, 2017, 7, 13471.	1.6	14
64	Ultrafast electron-lattice coupling dynamics in $VO_2$ thin films. Physical Review B, 2017, 96, .	1.1	32
65	Irreversible metal-insulator transition in thin film $VO_2$ induced by soft X-ray irradiation. Applied Physics Letters, 2017, 111, .	1.5	7
66	Electrically Induced Multiple Metal-Insulator Transitions in Oxide Nanodevices. Physical Review Applied, 2017, 8, .	1.5	44
67	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	16.4	672
68	Deviation from bulk in the pressure-temperature phase diagram of $VO_2$ thin films. Physical Review B, 2017, 95, .	1.1	28
69	Nanotextured phase coexistence in the correlated insulator $V_2O_3$ . Nature Physics, 2017, 13, 80-86.	6.5	172
70	Collective mode splitting in hybrid heterostructures. Physical Review B, 2016, 93, .	1.1	3
71	Control of the Magnetic Configuration of Ferromagnetic Nanostructures Across the Structural Phase Transition of Vanadium Dioxide. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	2
72	Mesoscopic magnetism and superconductivity. MRS Bulletin, 2015, 40, 925-932.	1.7	7

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73	Effect of disorder on the metal-insulator transition of vanadium oxides: Local versus global effects. Physical Review B, 2015, 91, .	1.1	53
74	Quadrupolar XMCD at the Fe $K$ -edge in Fe phthalocyanine film on Au: Insight into the magnetic ground state. Physical Review B, 2015, 91, .	1.1	9
75	Dynamic conductivity scaling in photoexcited $V_2O_3$ thin films. Physical Review B, 2015, 92, .	1.1	42
76	Avalanches in vanadium sesquioxide nanodevices. Physical Review B, 2015, 92, .	1.1	8
77	Enhancements of pinning by superconducting nanoarrays. Physical Review B, 2015, 92, .	1.1	5
78	Search for Superconductivity in Micrometeorites. Scientific Reports, 2015, 4, 7333.	1.6	7
79	Cobalt phthalocyanine-based submicrometric field-effect transistors. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 607-611.	0.8	2
80	Manipulation of competing ferromagnetic and antiferromagnetic domains in exchange-biased nanostructures. Physical Review B, 2015, 92, .	1.1	10
81	Exchange-Bias Phenomenon: The Role of the Ferromagnetic Spin Structure. Physical Review Letters, 2015, 114, 097202.	2.9	73
82	Detection of in-depth helical spin structures by planar Hall effect. Applied Physics Letters, 2015, 106, .	1.5	5
83	Charge injection across a metal-organic interface suppressed by thermal diffusion. Applied Physics Letters, 2014, 104, 043301.	1.5	0
84	Coupling of magnetism and structural phase transitions by interfacial strain. Journal of Materials Research, 2014, 29, 2353-2365.	1.2	31
85	X-ray-induced persistent photoconductivity in vanadium dioxide. Physical Review B, 2014, 90, .	1.1	16
86	Microscopy image segmentation tool: Robust image data analysis. Review of Scientific Instruments, 2014, 85, 033701.	0.6	12
87	Coercivity enhancement in $V_2O_3$ /Ni bilayers driven by nanoscale phase coexistence. Applied Physics Letters, 2014, 104, .	1.5	45
88	Antiferromagnetic/ferromagnetic nanostructures for multidigit storage units. Applied Physics Letters, 2014, 104, 032401.	1.5	20
89	Exchange bias: The antiferromagnetic bulk matters. Applied Physics Letters, 2014, 105, .	1.5	23
90	Magnetic field modulated microwave spectroscopy across phase transitions and the search for new superconductors. Reports on Progress in Physics, 2014, 77, 093902.	8.1	14

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91	Study of Co-phthalocyanine films by surface plasmon resonance spectroscopy. Journal of Applied Physics, 2014, 115, 103106.	1.1	4
92	Resolving transitions in the mesoscale domain configuration in VO <sub>2</sub> using laser speckle pattern analysis. Scientific Reports, 2014, 4, 6259.	1.6	5
93	Magnetism of Metal Phthalocyanines. Nanoscience and Technology, 2014, , 221-245.	1.5	23
94	Electronic structure differences between H <sub>2</sub> -, Fe-, Co-, and Cu-phthalocyanine highly oriented thin films observed using NEXAFS spectroscopy. Journal of Chemical Physics, 2013, 139, 034701.	1.2	33
95	Spin valve effect across the metal-insulator transition in V <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2013, 114, .	1.1	10
96	Ultra-thin filaments revealed by the dielectric response across the metal-insulator transition in VO <sub>2</sub> . Applied Physics Letters, 2013, 102, .	1.5	25
97	Control of magnetism across metal to insulator transitions. Applied Physics Letters, 2013, 102, .	1.5	44
98	Ferromagnetism in partially oxidized CuCl. Journal of Magnetism and Magnetic Materials, 2013, 346, 161-165.	1.0	9
99	Shearing transition in a superconducting vortex lattice subject to periodic pinning. Physical Review B, 2013, 88, .	1.1	3
100	Highly effective superconducting vortex pinning in conformal crystals. Applied Physics Letters, 2013, 102, .	1.5	35
101	Role of Thermal Heating on the Voltage Induced Insulator-Metal Transition in $\text{VO}_2$ . Physical Review Letters, 2013, 110, 056601.	2.9	238
102	Electrical breakdown in a V <sub>2</sub> O <sub>3</sub> device at the insulator-to-metal transition. Europhysics Letters, 2013, 101, 57003.	0.7	42
103	The role of micro-shorts and electrode-film interface in the electrical transport of ultra-thin metallophthalocyanine capacitive devices. Applied Physics Letters, 2012, 101, .	1.5	9
104	Interaction-induced anisotropy in the onion-to-vortex transition in dense ferromagnetic nano-ring arrays. Journal of Applied Physics, 2012, 112, .	1.1	4
105	Deconvoluting reversal modes in exchange-biased nanodots. Physical Review B, 2012, 86, .	1.1	15
106	Superconducting Vortex Pinning with Magnetic Dots: Does Size and Magnetic Configuration Matter?. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2187-2191.	0.8	11
107	Advice for My Younger Colleagues. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2119-2120.	0.8	0
108	Substrate-controlled ferromagnetism in iron phthalocyanine films due to one-dimensional iron chains. Physical Review B, 2012, 86, .	1.1	34

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109	Spin-dependent Seebeck effect in non-local spin valve devices. Applied Physics Letters, 2012, 100, .	1.5	54
110	Exchange bias induced by the Fe $\text{O}$ $\text{VO}$ Verwey transition. Physical Review B, 2012, 85, .	1.1	26
111	Magnetic pinning of flux lattice in superconducting-nanomagnet hybrids. Applied Physics Letters, 2011, 99, 182509.	1.5	5
112	Vortex ratchet reversal: Role of interstitial vortices. Physical Review B, 2011, 83, .	1.1	22
113	Asymmetric magnetic dots: A way to control magnetic properties. Journal of Applied Physics, 2011, 109, .	1.1	25
114	Exponential behavior of the Ohmic transport in organic films. Physical Review B, 2011, 83, .	1.1	11
115	Methodology and search for superconductivity in the LaSiC system. Superconductor Science and Technology, 2011, 24, 075017.	1.8	6
116	Surface enhanced spin-flip scattering in lateral spin valves. Applied Physics Letters, 2010, 96, .	1.5	49
117	Development of vortex state in circular magnetic nanodots: Theory and experiment. Physical Review B, 2010, 81, .	1.1	35
118	Control of magnetic properties in metallo-organic thin films. Journal of Materials Science, 2010, 45, 5032-5035.	1.7	15
119	Enhanced superconducting vortex pinning with disordered nanomagnetic arrays. Physical Review B, 2010, 82, .	1.1	23
120	Uncompensated moments in antiferromagnets: Origin, properties and role in exchange bias. , 2010, , .		1
121	Rocking ratchet induced by pure magnetic potentials with broken reflection symmetry. Physical Review B, 2009, 80, .	1.1	15
122	Magnetic vortices in Sub-100 nm magnets. , 2009, , .		0
123	Anomalous, hysteretic, transverse magnetoresistance in superconducting thin films with magnetic vortex arrays. Applied Physics Letters, 2009, 94, 252507.	1.5	7
124	Ambient induced degradation and chemically activated recovery in copper phthalocyanine thin film transistors. Journal of Applied Physics, 2009, 106, .	1.1	26
125	Three-dimensional spin structure in exchange-biased antiferromagnetic/ferromagnetic thin films. Applied Physics Letters, 2009, 95, .	1.5	25
126	First-order reversal curve measurements of the metal-insulator transition in $\text{VO}$ Signatures of persistent metallic domains. Physical Review B, 2009, 79, .	1.1	89



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127	Angular dependence of vortex-annihilation fields in asymmetric cobalt dots. Physical Review B, 2009, 80, .	1.1	45
128	Relevance of length scales in exchange biased submicron dots. Applied Physics Letters, 2009, 94, 142503.	1.5	12
129	Antiferromagnetic domain size and exchange bias. Physical Review B, 2008, 77, .	1.1	23
130	Temperature and angular dependences of dynamic spin-polarized resonant tunneling in CoFeB/MgO/NiFe junctions. Journal of Applied Physics, 2008, 103, 07A904.	1.1	10
131	Bilayer processing for an enhanced organic-electrode contact in ultrathin bottom contact organic transistors. Applied Physics Letters, 2008, 92, 193311.	1.5	24
132	Switchable collective pinning of flux quanta using magnetic vortex arrays: Experiments on square arrays of Co dots on thin superconducting films. Physical Review B, 2008, 77, .	1.1	24
133	Multiple Avalanches across the Metal-Insulator Transition of Vanadium Oxide Nanoscaled Junctions. Physical Review Letters, 2008, 101, 026404.	2.9	120
134	Irreversibility of magnetization rotation in exchange biased Fe/epitaxial-Fe <sub>2</sub> thin films. Applied Physics Letters, 2007, 90, 032510.	1.5	24
135	Temperature induced single domain to vortex state transition in sub-100nm Fe nanodots. Applied Physics Letters, 2007, 91, .	1.5	67
136	Magnetic fingerprints of sub-100nmFe dots. Physical Review B, 2007, 75, .	1.1	125
137	Bistability in a Superconducting Al Thin Film Induced by Arrays of Fe-Nanodot Magnetic Vortices. Physical Review Letters, 2007, 99, 227001.	2.9	37
138	Impact of interfacial roughness on tunneling conductance and extracted barrier parameters. Applied Physics Letters, 2007, 90, 043513.	1.5	38
139	Direct observation of cooperative effects in capillary condensation: The hysteretic origin. Applied Physics Letters, 2007, 91, .	1.5	42
140	Pinned magnetization in the antiferromagnet and ferromagnet of an exchange bias system. Physical Review B, 2007, 75, .	1.1	99
141	Ultrathin organic transistors for chemical sensing. Applied Physics Letters, 2007, 90, 263506.	1.5	94
142	Time-Dependent Ginzburg-Landau: From Single Particle to Collective Behavior. Journal of Superconductivity and Novel Magnetism, 2007, 19, 401-407.	0.8	6
143	Combined neutron and synchrotron studies of magnetic films. Pramana - Journal of Physics, 2006, 67, 47-55.	0.9	1
144	Anomalous Spontaneous Reversal in Magnetic Heterostructures. Physical Review Letters, 2006, 96, 137201.	2.9	27

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145	Angular dependence of exchange anisotropy on the cooling field in ferromagnet/fluoride thin films. Physical Review B, 2006, 73, .	1.1	19
146	Fabrication and structural characterization of highly ordered sub-100-nm planar magnetic nanodot arrays over 1cm <sup>2</sup> coverage area. Journal of Applied Physics, 2006, 100, 074318.	1.1	42
147	Magnetization reversal of uncompensated Fe moments in exchange biased Ni <sup>2+</sup> /FeF <sub>2</sub> bilayers. Applied Physics Letters, 2006, 88, 072503.	1.5	33
148	Vortex state and effect of anisotropy in sub-100-nm magnetic nanodots. Journal of Applied Physics, 2006, 100, 104319.	1.1	69
149	Magnetization depth dependence in exchange biased thin films. Applied Physics Letters, 2006, 89, 072504.	1.5	32
150	Quantitative structural analysis of organic thin films: An x-ray diffraction study. Physical Review B, 2005, 72, .	1.1	61
151	Loop bifurcation and magnetization rotation in exchange-biased Ni <sup>2+</sup> /FeF <sub>2</sub> . Physical Review B, 2005, 72, .	1.1	26
152	Vortex-lattice dynamics with channeled pinning potential landscapes. Physical Review B, 2005, 72, .	1.1	25
153	Detailed structural analysis of epitaxial MBE-grown Fe/Cr superlattices by x-ray diffraction and transmission-electron spectroscopy. Physical Review B, 2005, 71, .	1.1	2
154	Time domain dynamics of the asymmetric magnetization reversal in exchange biased bilayers. Physical Review B, 2005, 71, .	1.1	10
155	Bidomain state in exchange biased FeF <sub>2</sub> /Ni. Applied Physics Letters, 2005, 87, 222509.	1.5	52
156	Magnetoresistance of mechanically stable Co nanoconstrictions. Physical Review B, 2004, 70, .	1.1	21
157	Changes in ferromagnetic spin structure induced by exchange bias in Fe/MnF <sub>2</sub> films. Physical Review B, 2004, 70, .	1.1	38
158	Mechanisms of periodic pinning in superconducting thin films. European Physical Journal B, 2004, 40, 459-462.	0.6	9
159	Ordered magnetic nanostructures: fabrication and properties. Journal of Magnetism and Magnetic Materials, 2003, 256, 449-501.	1.0	856
160	Overcoming thermal fluctuations. Nature Materials, 2003, 2, 437-438.	13.3	72
161	Directional vortex motion guided by artificially induced mesoscopic potentials. Physical Review B, 2003, 68, .	1.1	58
162	Relaxation times in exchange-biased nanostructures. Applied Physics Letters, 2003, 83, 332-334.	1.5	16

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163	Origin of complex exchange anisotropy in Fe/MnF <sub>2</sub> bilayers. Physical Review B, 2003, 68, .	1.1	36
164	Fabrication and thermal stability of arrays of Fe nanodots. Applied Physics Letters, 2002, 81, 4434-4436.	1.5	109
165	Influence of in-plane crystalline quality of an antiferromagnet on perpendicular exchange coupling and exchange bias. Physical Review B, 2002, 65, .	1.1	61
166	Relation between exchange anisotropy and magnetization reversal asymmetry in Fe/MnF <sub>2</sub> bilayers. Physical Review B, 2002, 65, .	1.1	70
167	Upper bound for the magnetic proximity effect extracted from Brillouin light scattering. Physical Review B, 2002, 65, .	1.1	7
168	Kinetics of subsurface hydrogen adsorbed on niobium: Thermal desorption studies. Journal of Materials Research, 2002, 17, 2698-2704.	1.2	7
169	Effect of anisotropy on the critical antiferromagnet thickness in exchange-biased bilayers. Physical Review B, 2002, 66, .	1.1	90
170	Thickness-dependent coercive mechanisms in exchange-biased bilayers. Physical Review B, 2002, 65, .	1.1	108
171	Coercivity enhancement above the Néel temperature of an antiferromagnet/ferromagnet bilayer. Journal of Applied Physics, 2002, 92, 1483-1488.	1.1	62
172	Quantitative x-ray photoelectron spectroscopy study of Al/AlO <sub>x</sub> bilayers. Journal of Applied Physics, 2002, 91, 10163.	1.1	11
173	Influence of interfacial disorder and temperature on magnetization reversal in exchange-coupled bilayers. Physical Review B, 2001, 64, .	1.1	30
174	Deposition of epitaxial $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> layers for exchange bias studies by reactive dc magnetron sputtering. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1927-1934.	0.6	8
175	Persistent and transient photoconductivity in oxygen-deficient La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> thin films. Physical Review B, 2001, 63, .	1.1	86
176	Interfacially dominated giant magnetoresistance in Fe/Cr superlattices. Physical Review B, 2001, 65, .	1.1	22
177	Tailoring exchange bias with magnetic nanostructures. Physical Review B, 2001, 63, .	1.1	133
178	Tunneling criteria for magnetic-insulator-magnetic structures. Applied Physics Letters, 2001, 79, 3104-3106.	1.5	56
179	Pinholes may mimic tunneling. Journal of Applied Physics, 2001, 89, 2786-2790.	1.1	54
180	Two-Stage Magnetization Reversal in Exchange Biased Bilayers. Physical Review Letters, 2001, 86, 4394-4397.	2.9	124

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181	Effect of sputtering pressure-induced roughness on the microstructure and the perpendicular giant magnetoresistance of Fe/Cr superlattices. <i>Physical Review B</i> , 2000, 62, 15079-15083.	1.1	23
182	Coercivity of a percolative magnetic system. <i>Physical Review B</i> , 2000, 63, .	1.1	5
183	Using magnetoresistance to probe reversal asymmetry in exchange biased bilayers. <i>Journal of Applied Physics</i> , 2000, 88, 344-347.	1.1	52
184	Antiferromagnetic spin flop and exchange bias. <i>Physical Review B</i> , 2000, 61, R6455-R6458.	1.1	69
185	Magnetic domain and domain-wall imaging of submicron Co dots by probing the magnetostrictive response using atomic force microscopy. <i>Applied Physics Letters</i> , 2000, 76, 2931-2933.	1.5	21
186	Enhancement of perpendicular and parallel giant magnetoresistance with the number of bilayers in Fe/Cr superlattices. <i>Physical Review B</i> , 2000, 62, 3361-3367.	1.1	37
187	Role of interfacial structure on exchange-biased Fe <sub>2</sub> Fe. <i>Physical Review B</i> , 1999, 59, 6984-6993.	1.1	149
188	Exchange bias. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 192, 203-232.	1.0	4,314
189	Magnetic superlattices and multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 200, 571-582.	1.0	124
190	Tuning exchange bias. <i>Applied Physics Letters</i> , 1999, 75, 2304-2306.	1.5	111
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