Chris Leighton

List of Publications by Year in Descending Order

188 papers	8,930 citations	52 h-index	89 g-index
199 ext. papers	9,884 ext. citations	6.6 avg, IF	6.16 L-index

#	Paper	IF	Citations
188	What controls electrostatic vs electrochemical response in electrolyte-gated materials? A perspective on critical materials factors. *APL Materials*, **2022**, 10, 040901	5.7	3
187	String Phase in an Artificial Spin Ice. *Nature Communications*, **2021**, 12, 6514	17.4	2
186	Conduction via surface states in antiferromagnetic Mott-insulating NiS2 single crystals. *Physical Review Materials*, **2021**, 5,	3.2	1
185	Experimental Realization of the 1D Random Field Ising Model. *Physical Review Letters*, **2021**, 127, 207203	7.4	1
184	Enhanced superconductivity and ferroelectric quantum criticality in plastically deformed strontium titanate. *Nature Materials*, **2021**,	27	6
183	Doping- and Strain-Dependent Electrolyte-Gate-Induced Perovskite to Brownmillerite Transformation in Epitaxial LaSrCoO Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 51205-51217	9.5	4
182	Field-Induced Magnetic Monopole Plasma in Artificial Spin Ice. *Physical Review X*, **2021**, 11,	9.1	3
181	Structure-property relationships and mobility optimization in sputtered La-doped BaSnO3 films: Toward 100cm2V−1s−1 mobility. *Physical Review Materials*, **2021**, 5,	3.2	3
180	Understanding magnetic phase coexistence in Ru2Mn1−xFexSn Heusler alloys: A neutron scattering, thermodynamic, and phenomenological analysis. *Physical Review Materials*, **2021**, 5,	3.2	1
179	Mitigation of the internal p-n junction in CoS2-contacted FeS2 single crystals: Accessing bulk semiconducting transport. *Physical Review Materials*, **2021**, 5,	3.2	1
178	Nature of the ferromagnetic-antiferromagnetic transition in Y1−xLaxTiO3. *Physical Review B*, **2021**, 104,	3.3	5
177	A Quantitative Method for In-Situ Pump-Beam Metrology in Ultrafast Electron Microscopy. *Microscopy and Microanalysis*, **2021**, 27, 3416-3418	0.5	
176	Sulfur Vacancy Clustering and Its Impact on Electronic Properties in Pyrite FeS2. *Chemistry of Materials*, **2020**, 32, 4820-4831	9.6	14
175	Soft x-ray absorption spectroscopy and magnetic circular dichroism as operando probes of complex oxide electrolyte gate transistors. *Applied Physics Letters*, **2020**, 116, 201905	3.4	4
174	Observation of an Internal p−n Junction in Pyrite FeS2 Single Crystals: Potential Origin of the Low Open Circuit Voltage in Pyrite Solar Cells **2020**, 2, 861-868		5
173	Isotype Heterojunction Solar Cells Using n-Type Sb2Se3 Thin Films. *Chemistry of Materials*, **2020**, 32, 2621-2630	9.6	34
172	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO3−δ thin films. *Physical Review Materials*, **2020**, 4,	3.2	4

171	Violation of the Wiedemann-Franz law through reduction of thermal conductivity in gold thin films. *Physical Review Materials*, **2020**, 4,	3.2	8
170	Giant anisotropic magnetoresistance in oxygen-vacancy-ordered epitaxial La0.5Sr0.5CoO3 films. *Physical Review Materials*, **2020**, 4,	3.2	6
169	Quantitative Understanding of Superparamagnetic Blocking in Thoroughly Characterized Ni Nanoparticle Assemblies. *Chemistry of Materials*, **2020**, 32, 6494-6506	9.6	2
168	Scattering mechanisms and mobility enhancement in epitaxial BaSnO3 thin films probed via electrolyte gating. *APL Materials*, **2020**, 8, 071113	5.7	8
167	Voltage-induced ferromagnetism in a diamagnet. *Science Advances*, **2020**, 6, eabb7721	14.3	18
166	Universal superconducting precursor in three classes of unconventional superconductors. *Nature Communications*, **2019**, 10, 2729	17.4	16
165	Gate-Tuned Insulator-Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. *Nano Letters*, **2019**, 19, 4738-4744	11.5	31
164	Transport Evidence for Sulfur Vacancies as the Origin of Unintentional n-Type Doping in Pyrite FeS. *ACS Applied Materials & Interfaces*, **2019**, 11, 15552-15563	9.5	19
163	Magnetic small-angle neutron scattering. *Reviews of Modern Physics*, **2019**, 91,	40.5	80
162	Low-temperature specific heat of doped SrTiO3: Doping dependence of the effective mass and Kadowaki-Woods scaling violation. *Physical Review Materials*, **2019**, 3,	3.2	9
161	Wide-voltage-window reversible control of electronic transport in electrolyte-gated epitaxial BaSnO3. *Physical Review Materials*, **2019**, 3,	3.2	14
160	Nanoscale magnetic phase competition throughout the Ni50CoxMn40Sn10 phase diagram: Insights from small-angle neutron scattering. *Physical Review Materials*, **2019**, 3,	3.2	9
159	Magnetic impurities as the origin of the variability in spin relaxation rates in Cu-based spin transport devices. *Physical Review Materials*, **2019**, 3,	3.2	2
158	Understanding thermal annealing of artificial spin ice. *APL Materials*, **2019**, 7, 111112	5.7	12
157	Electrolyte-based ionic control of functional oxides. *Nature Materials*, **2019**, 18, 13-18	27	142
156	Microstructure characterization of BaSnO thin films on LaAlO and PrScO substrates from transmission electron microscopy. *Scientific Reports*, **2018**, 8, 10245	4.9	9
155	Electronic structure of BaSnO3 investigated by high-energy-resolution electron energy-loss spectroscopy and ab initio calculations. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2018**, 36, 031503	2.9	7
154	Anomalous Cooling-Rate-Dependent Charge Transport in Electrolyte-Gated Rubrene Crystals. *Journal of Physical Chemistry Letters*, **2018**, 9, 4828-4833	6.4	2

153	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped BaSnO3 single crystals. *Physical Review Materials*, **2018**, 2,	3.2	18
152	Perpendicular magnetic anisotropy via strain-engineered oxygen vacancy ordering in epitaxial La1SrxCoO3*Physical Review Materials*, **2018**, 2,	3.2	17
151	Giant electrostatic modification of magnetism via electrolyte-gate-induced cluster percolation in La1SrxCoO3*Physical Review Materials*, **2018**, 2,	3.2	14
150	Changes in physical properties of 4C pyrrhotite (Fe7S8) across the 32 K Besnus transition. *American Mineralogist*, **2018**, 103, 1674-1689	2.9	5
149	Uncovering the Microstructure of BaSnO3 thin films deposited on different substrates using TEM. *Microscopy and Microanalysis*, **2018**, 24, 2198-2199	0.5	1
148	Atomic-resolution study of oxygen vacancy ordering in Lao.5Sro.5CoO3-s thin films on SrTiO3 during in situ cooling experiments.. *Microscopy and Microanalysis*, **2018**, 24, 84-85	0.5	2
147	2D InsulatorMetal Transition in Aerosol-Jet-Printed Electrolyte-Gated Indium Oxide Thin Film Transistors. *Advanced Electronic Materials*, **2017**, 3, 1600369	6.4	34
146	Understanding magnetotransport signatures in networks of connected permalloy nanowires. *Physical Review B*, **2017**, 95,	3.3	24
145	Theory of Kondo suppression of spin polarization in nonlocal spin valves. *Physical Review B*, **2017**, 95,	3.3	6
144	Mobility-electron density relation probed via controlled oxygen vacancy doping in epitaxial BaSnO3. *APL Materials*, **2017**, 5, 056102	5.7	47
143	Room temperature spin Kondo effect and intermixing in Co/Cu non-local spin valves. *Applied Physics Letters*, **2017**, 110, 222407	3.4	6
142	Percolation via Combined Electrostatic and Chemical Doping in Complex Oxide Films. *Physical Review Letters*, **2017**, 118, 106801	7.4	2
141	Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial La0.5Sr0.5CoO3*Advanced Functional Materials*, **2017**, 27, 1704233	15.6	16
140	Probing the Electronic Structure of BaSnO3 by EELS Analysis and ab initio Calculations. *Microscopy and Microanalysis*, **2017**, 23, 1602-1603	0.5	
139	Enhanced spin pumping near a magnetic ordering transition. *Physical Review B*, **2017**, 96,	3.3	16
138	Thermal Conductivity: Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial La0.5Sr0.5CoO3(Adv. Funct. Mater. 47/2017). *Advanced Functional Materials*, **2017**, 27, 1770284	15.6	4
137	Interface-Induced Phenomena in Magnetism. *Reviews of Modern Physics*, **2017**, 89,	40.5	475
136	Studying the effects of interfacial coupling in La0.5Sr0.5CoO3-thin films on SrTiO3 using in-situ cooling experiments. *Microscopy and Microanalysis*, **2017**, 23, 850-851	0.5	

135	Potential resolution to the doping puzzle in iron pyrite: Carrier type determination by Hall effect and thermopower. *Physical Review Materials*, **2017**, 1,	3.2	19
134	Surface conduction in n-type pyrite FeS2 single crystals. *Physical Review Materials*, **2017**, 1,	3.2	18
133	Ion-gel-gating-induced oxygen vacancy formation in epitaxial La0.5Sr0.5CoO3 films from in operando x-ray and neutron scattering. *Physical Review Materials*, **2017**, 1,	3.2	37
132	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. *Physical Review B*, **2016**, 93,	3.3	12
131	Phase separation and superparamagnetism in the martensitic phase of Ni50 CoxMn40Sn10. *Physical Review B*, **2016**, 93,	3.3	9
130	Efficient spin transport through native oxides of nickel and permalloy with platinum and gold overlayers. *Physical Review B*, **2016**, 93,	3.3	26
129	A Unified View of the Substitution-Dependent Antiferrodistortive Phase Transition in SrTiO3. *Chemistry of Materials*, **2016**, 28, 7973-7981	9.6	9
128	Study of Strain and Intermixing at the BaSnO 3 /SrTiO 3 and BaSnO 3 /LaAlO 3 Interfaces Using STEM and EELS. *Microscopy and Microanalysis*, **2016**, 22, 320-321	0.5	
127	Simultaneous First-Order Valence and Oxygen Vacancy Order/Disorder Transitions in (Pr0.85Y0.15)0.7Ca0.3CoO3- via Analytical Transmission Electron Microscopy. *ACS Nano*, **2016**, 10, 938-47	16.7	10
126	Emergent reduced dimensionality by vertex frustration in artificial spin ice. *Nature Physics*, **2016**, 12, 162-165	16.2	88
125	Thermodynamics and Energy Conversion in Heusler Alloys. *Springer Series in Materials Science*, **2016** , 269-291	0.9	5
124	Magnetic Phase Competition in Off-Stoichiometric Martensitic Heusler Alloys: The Ni(_{50-x})Co(_{x})Mn(_{25+y})Sn(_{25-y}) System. *Springer Series in Materials Science*, **2016**, 193-216	0.9	2
123	Magnetic-field-induced changes in superparamagnetic cluster dynamics in the martensitic phase of Ni43Co7Mn40Sn10. *Applied Physics Letters*, **2016**, 108, 252403	3.4	1
122	Atomic-scale characterization of the oxygen vacancy ordering in La 0.5 Sr 0.5 CoO 3 thin film grown on SrTiO 3 using in-situ cooling experiments. *Microscopy and Microanalysis*, **2016**, 22, 1626-1627	0.5	1
121	Defects, stoichiometry, and electronic transport in SrTiO3- epilayers: A high pressure oxygen sputter deposition study. *Journal of Applied Physics*, **2016**, 120, 055704	2.5	12
120	First-principles study of crystal and electronic structure of rare-earth cobaltites. *Journal of Applied Physics*, **2016**, 119, 244310	2.5	8
119	Observation and modelling of ferromagnetic contact-induced spin relaxation in Hanle spin precession measurements. *Physical Review B*, **2016**, 94,	3.3	17
118	Electrostatic versus Electrochemical Doping and Control of Ferromagnetism in Ion-Gel-Gated Ultrathin La0.5Sr0.5CoO3- *ACS Nano*, **2016**, 10, 7799-810	16.7	66

117	Phase Stability and Stoichiometry in Thin Film Iron Pyrite: Impact on Electronic Transport Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 14130-9	9.5	34
116	Self-Regulation of Cu/Sn Ratio in the Synthesis of Cu2ZnSnS4Films. *Chemistry of Materials*, **2015**, 27, 2507-2514	9.6	42
115	Magnetically nanostructured state in a Ni-Mn-Sn shape-memory alloy. *Physical Review B*, **2015**, 91,	3.3	11
114	Neutron-scattering-based evidence for interacting magnetic excitons in LaCoO3. *Physical Review B*, **2015**, 92,	3.3	9
113	Structure and transport in high pressure oxygen sputter-deposited BaSnO3 *APL Materials*, **2015**, 3, 062509	5.7	72
112	Persistent optically induced magnetism in oxygen-deficient strontium titanate. *Nature Materials*, **2014**, 13, 481-7	27	92
111	Sphericity and symmetry breaking in the formation of Frank-Kasper phases from one component materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17723-31	11.5	161
110	Alkali-metal-enhanced grain growth in Cu2ZnSnS4 thin films. *Energy and Environmental Science*, **2014**, 7, 1931-1938	35.4	111
109	Magnetocaloric effect and critical behavior in Pr0.5Sr0.5MnO3: an analysis of the validity of the Maxwell relation and the nature of the phase transitions. *Journal of Physics Condensed Matter*, **2014** , 26, 286001	1.8	31
108	Kondo physics in non-local metallic spin transport devices. *Nature Communications*, **2014**, 5, 3927	17.4	39
107	Direct real space observation of magneto-electronic inhomogeneity in ultra-thin film La0.5Sr0.5CoO3 on SrTiO3(001). *Applied Physics Letters*, **2014**, 105, 112909	3.4	4
106	High conductance 2D transport around the Hall mobility peak in electrolyte-gated rubrene crystals. *Physical Review Letters*, **2014**, 113, 246602	7.4	35
105	Substrate and temperature dependence of the formation of the Earth abundant solar absorber Cu2ZnSnS4 by ex situ sulfidation of cosputtered Cu-Zn-Sn films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2014**, 32, 061203	2.9	5
104	Magnetically inhomogeneous ground state below the first-order valence transition in (Pr1 Yy)0.7Ca0.3CoO3 *Physical Review B*, **2014**, 89,	3.3	11
103	Optimization of long-range order in solvent vapor annealed poly(styrene)-block-poly(lactide) thin films for nanolithography. *ACS Applied Materials & Interfaces*, **2014**, 6, 13770-81	9.5	59
102	Structural, transport, and magnetic properties of narrow bandwidth Nd1 CaxCoO3 and comparisons to Pr1 CaxCoO3 *Physical Review B*, **2013**, 88,	3.3	12
101	Crystallites of magnetic charges in artificial spin ice. *Nature*, **2013**, 500, 553-7	50.4	166
100	Thermodynamics of energy conversion via first order phase transformation in low hysteresis magnetic materials. *Energy and Environmental Science*, **2013**, 6, 1315	35.4	28

99	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial La0.5Sr0.5CoO3-□thin films. *APL Materials*, **2013**, 1, 012105	5.7	104
98	Ferrimagnetism in PrCoO3 epitaxial films. *Physical Review B*, **2013**, 87,	3.3	7
97	Crossover from nanoscopic intergranular hopping to conventional charge transport in pyrite thin films. *ACS Nano*, **2013**, 7, 2781-9	16.7	52
96	Plastic response of the native oxide on Cr and Al thin films from in situ conductive nanoindentation. *Journal of Materials Research*, **2012**, 27, 685-693	2.5	15
95	RbFe2+Fe3+F6: Synthesis, structure, and characterization of a new charge-ordered magnetically frustrated pyrochlore-related mixed-metal fluoride. *Chemical Science*, **2012**, 3, 741-751	9.4	16
94	Small-angle neutron scattering study of magnetic ordering and inhomogeneity across the martensitic phase transformation in Ni50□CoxMn40Sn10 alloys. *Physical Review B*, **2012**, 85,	3.3	61
93	Hopping transport and the Hall effect near the insulator-metal transition in electrochemically gated poly(3-hexylthiophene) transistors. *Nature Communications*, **2012**, 3, 1210	17.4	130
92	Single-crystalline silver films for plasmonics. *Advanced Materials*, **2012**, 24, 3988-92	24	100
91	STEM ADF and EELS Study of Strain and Doping Effects in SrTiO3. *Microscopy and Microanalysis*, **2012**, 18, 310-311	0.5	
90	Transverse susceptibility as a probe of the magnetocrystalline anisotropy-driven phase transition in Pr0.5Sr0.5CoO3. *Physical Review B*, **2011**, 83,	3.3	28
89	Non-lift-off block copolymer lithography of 25 nm magnetic nanodot arrays. *ACS Applied Materials & Interfaces*, **2011**, 3, 3472-81	9.5	34
88	Magnetotransport properties of epitaxial MgO(001)/FeRh films across the antiferromagnet to ferromagnet transition. *Journal of Applied Physics*, **2011**, 109, 083913	2.5	36
87	Atomic-resolution imaging of spin-state superlattices in nanopockets within cobaltite thin films. *Nano Letters*, **2011**, 11, 973-6	11.5	82
86	Chemically driven nanoscopic magnetic phase separation at the SrTiO(3) (001)/La(1-x) Sr(x) CoO(3) interface. *Advanced Materials*, **2011**, 23, 2711-5	24	53
85	Coercivity enhancement driven by interfacial magnetic phase separation in SrTiO3(001)/Nd0.5Sr0.5CoO3. *Physical Review B*, **2011**, 84,	3.3	17
84	Growth temperature control of the epitaxy, magnetism, and transport in SrTiO3(001)/La0.5Sr0.5CoO3 thin films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2011**, 29, 051511	2.9	5
83	Electronic transport in doped SrTiO3: Conduction mechanisms and potential applications. *Physical Review B*, **2010**, 81,	3.3	177
82	Spontaneous formation of an exchange-spring composite via magnetic phase separation in Pr1□CaxCoO3. *Physical Review B*, **2010**, 82,	3.3	22

81	Sulfurization studies of the potential thin film solar absorber Cu2ZnSnS4 **2010**,		1
80	Polylactide-poly(dimethylsiloxane)-polylactide triblock copolymers as multifunctional materials for nanolithographic applications. *ACS Nano*, **2010**, 4, 725-32	16.7	108
79	Cobalt spin states and hyperfine interactions in LaCoO3 investigated by LDA+U calculations. *Physical Review B*, **2010**, 82,	3.3	40
78	Applications of aberration corrected scanning transmission electron microscopy and electron energy loss spectroscopy to thin oxide films and interfaces. *International Journal of Materials Research*, **2010**, 101, 21-26	0.5	5
77	Low-temperature interactions of magnetic excitons in LaCoO3. *Physical Review B*, **2009**, 79,	3.3	14
76	Synthesis and characterization of highly spin-polarized single-phase Co1−FexS2 films. *Journal of Applied Physics*, **2009**, 105, 093912	2.5	6
75	Spin-dependent intergranular transport in highly spin-polarized Co1−FexS2 thin films. *Applied Physics Letters*, **2009**, 95, 182510	3.4	2
74	Heat capacity study of magnetoelectronic phase separation in La1−SrxCoO3 single crystals. *Physical Review B*, **2009**, 80,	3.3	45
73	Low temperature Schottky anomalies in the specific heat of LaCoO3: Defect-stabilized finite spin states. *Applied Physics Letters*, **2009**, 94, 102514	3.4	37
72	The minority spin surface bands of CoS(2)(001). *Journal of Physics Condensed Matter*, **2009**, 21, 295501	1.8	6
71	The Nano-Jackhammer effect in probing near-surface mechanical properties. *International Journal of Plasticity*, **2009**, 25, 2045-2058	7.6	30
70	Dielectric response to the low-temperature magnetic defect structure and spin state transition in polycrystalline LaCoO3. *Physical Review B*, **2009**, 79,	3.3	40
69	Composite block polymer-microfabricated silicon nanoporous membrane. *ACS Applied Materials & Interfaces*, **2009**, 1, 888-93	9.5	55
68	Magnetocaloric effect and refrigerant capacity in charge-ordered manganites. *Journal of Applied Physics*, **2009**, 106, 023909	2.5	165
67	Coupled structural/magnetocrystalline anisotropy transitions in the doped perovskite cobaltite Pr1−SrxCoO3. *Physical Review B*, **2009**, 79,	3.3	38
66	Doping fluctuation-driven magneto-electronic phase separation in La 1−x Sr x CoO 3 single crystals. *Europhysics Letters*, **2009**, 87, 27006	1.6	41
65	Transport signatures of percolation and electronic phase homogeneity in La1−SrxCoO3 single crystals. *Applied Physics Letters*, **2009**, 95, 222511	3.4	10
64	Effects of interface states on the transport properties of all-oxide La0.8Sr0.2CoO3−rTi0.99Nb0.01O3 p-n heterojunctions. *Applied Physics Letters*, **2008**, 92, 082106	3.4	23

63	Spontaneous alignment of self-assembled ABC triblock terpolymers for large-area nanolithography. *Applied Physics Letters*, **2008**, 93, 133112	3.4	16
62	Identification and separation of two distinct contributions to the training effect in polycrystalline CoFeMn bilayers. *Physical Review B*, **2008**, 77,	3.3	37
61	Strongly inhomogeneous conduction in cobaltite films: Non-Gaussian resistance noise. *Physical Review B*, **2008**, 78,	3.3	9
60	Spin polarons in La1−xSrxCoO3 single crystals. *Physical Review B*, **2008**, 78,	3.3	16
59	Epitaxial La0.5Sr0.5CoO3 thin films: Structure, magnetism, and transport. *Journal of Applied Physics*, **2008**, 104, 023901	2.5	63
58	Disorder and double-exchange spin dynamics in La0.7Sr0.3MnO3 and La0.7Sr0.3CoO3 from NMR hyperfine couplings. *Physical Review B*, **2007**, 75,	3.3	14
57	Multiple antiferromagnet/ferromagnet interfaces as a probe of grain-size-dependent exchange bias in polycrystalline Co/Fe50Mn50. *Journal of Magnetism and Magnetic Materials*, **2007**, 309, 54-63	2.8	25
56	Comparison between micromagnetic simulation and experiment for the CoFe50Mn50 exchange-biased system. *Journal of Applied Physics*, **2007**, 102, 073901	2.5	8
55	Composition controlled spin polarization in Co(1-x)Fe(x)S(2) alloys. *Journal of Physics Condensed Matter*, **2007**, 19, 315219	1.8	30
54	Non-Griffiths-like clustered phase above the Curie temperature of the doped perovskite cobaltite La1−xSrxCoO3. *Physical Review B*, **2007**, 76,	3.3	89
53	Direct measurement of the low-temperature spin-state transition in LaCoO3. *Physical Review Letters*, **2007**, 99, 047203	7.4	142
52	Local matrix-cluster interactions in a phase separated perovskite. *Physical Review B*, **2006**, 74,	3.3	18
51	Glassy transport phenomena in a phase-separated perovskite cobaltite. *Physical Review B*, **2006**, 73,	3.3	40
50	Magneto-optical study of magnetization reversal asymmetry in exchange bias. *Applied Physics Letters*, **2006**, 89, 202512	3.4	33
49	Sulfur stoichiometry effects in highly spin polarized CoS2 single crystals. *Applied Physics Letters*, **2006**, 88, 232509	3.4	31
48	Magnetic and electronic properties of La1−xSrxCoO3 single crystals across the percolation metal-insulator transition. *Physical Review B*, **2006**, 74,	3.3	70
47	Composition controlled spin polarization in Co1−xFexS2: Electronic, magnetic, and thermodynamic properties. *Physical Review B*, **2006**, 73,	3.3	36
46	Electronic structure of Co1− Fex S2. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 2117-2121	1.3	20

45	Artificial ﬁspin iceﬂ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. *Nature*, **2006**, 439, 303-6	50.4	600
44	Intergranular giant magnetoresistance in a spontaneously phase separated perovskite oxide. *Physical Review Letters*, **2005**, 94, 037201	7.4	145
43	Perpendicular Domain Orientation in Thin Films of Polystyrene-*b*-Polylactide Diblock Copolymers. *Macromolecules*, **2005**, 38, 10101-10108	5.5	73
42	Colossal magnetotransport phenomena due to phase competition in Pr1-x(CaySr1-y)xMnO3 single crystals. *Journal of Magnetism and Magnetic Materials*, **2005**, 288, 146-154	2.8	4
41	Magnetization reversal and nanoscopic magnetic-phase separation in La1-xSrxCoO3. *Physical Review B*, **2005**, 72,	3.3	55
40	Co1-xFexS2: a tunable source of highly spin-polarized electrons. *Physical Review Letters*, **2005**, 94, 056602	7.4	68
39	Time domain dynamics of the asymmetric magnetization reversal in exchange biased bilayers. *Physical Review B*, **2005**, 71,	3.3	10
38	Observation of magnetic excitons in LaCoO 3. *Europhysics Letters*, **2005**, 70, 677-683	1.6	34
37	Spin dynamics in La1-xSrxCoO3. *Physical Review B*, **2004**, 69,	3.3	52
36	Evolution of the ferromagnetic and nonferromagnetic phases with temperature in phase-separated La1-xSrxCoO3 by high-field La139 NMR. *Physical Review B*, **2004**, 70,	3.3	45
35	Large area nanolithographic templates by selective etching of chemically stained block copolymer thin films. *Journal of Materials Chemistry*, **2004**, 14, 2729		80
34	Spin-dependent band structure effects and measurement of the spin polarization in the candidate half-metal CoS2. *Physical Review B*, **2004**, 69,	3.3	47
33	Magnetic phase behavior of the ferrimagnetic doped cobaltite Nd1-xSrxCoO3. *Physical Review B*, **2004**, 70,	3.3	55
32	Growth temperature controlled magnetism in molecular beam epitaxially grown Ni2MnAl Heusler alloy. *Journal of Crystal Growth*, **2003**, 254, 384-389	1.6	29
31	Glassy ferromagnetism and magnetic phase separation in La1-xSrxCoO3. *Physical Review B*, **2003**, 67,	3.3	456
30	Magnetic phase separation in La1-xSrxCoO3 by 59Co nuclear magnetic resonance. *Physical Review Letters*, **2003**, 91, 127202	7.4	140
29	Origin of complex exchange anisotropy in Fe/MnF2 bilayers. *Physical Review B*, **2003**, 68,	3.3	36
28	Criteria for ferromagnetic-insulator-ferromagnetic tunneling. *Journal of Magnetism and Magnetic Materials*, **2002**, 240, 86-91	2.8	53

27	Fabrication and thermal stability of arrays of Fe nanodots. *Applied Physics Letters*, **2002**, 81, 4434-4436	3.4	103
26	A high temperature probe operating in the variable temperature insert of a commercial superconducting magnet system. *Review of Scientific Instruments*, **2002**, 73, 2364-2368	1.7	2
25	Thermally excited spin-disorder contribution to the resistivity of LaCoO3. *Physical Review B*, **2002**, 65,	3.3	73
24	Relation between exchange anisotropy and magnetization reversal asymmetry in Fe/MnF2 bilayers. *Physical Review B*, **2002**, 65,	3.3	65
23	Upper bound for the magnetic proximity effect extracted from Brillouin light scattering. *Physical Review B*, **2002**, 65,	3.3	7
22	Effect of anisotropy on the critical antiferromagnet thickness in exchange-biased bilayers. *Physical Review B*, **2002**, 66,	3.3	84
21	Thickness-dependent coercive mechanisms in exchange-biased bilayers. *Physical Review B*, **2002**, 65,	3.3	100
20	Coercivity enhancement above the Néel temperature of an antiferromagnet/ferromagnet bilayer. *Journal of Applied Physics*, **2002**, 92, 1483-1488	2.5	57
19	Anomalous magnetotransport properties of epitaxial full Heusler alloys. *Applied Physics Letters*, **2002**, 80, 4798-4800	3.4	72
18	Deposition of epitaxial □Fe2O3 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		8
17	Persistent and transient photoconductivity in oxygen-deficient La2/3Sr1/3MnO3□thin films. *Physical Review B*, **2001**, 63,	3.3	84
16	Interfacially dominated giant magnetoresistance in Fe/Cr superlattices. *Physical Review B*, **2001**, 65,	3.3	18
15	Pinholes may mimic tunneling. *Journal of Applied Physics*, **2001**, 89, 2786-2790	2.5	52
14	Two-stage magnetization reversal in exchange biased bilayers. *Physical Review Letters*, **2001**, 86, 4394-7	7.4	115
13	Influence of interfacial disorder and temperature on magnetization reversal in exchange-coupled bilayers. *Physical Review B*, **2001**, 64,	3.3	28
12	Effect of sputtering pressure-induced roughness on the microstructure and the perpendicular giant magnetoresistance of Fe/Cr superlattices. *Physical Review B*, **2000**, 62, 15079-15083	3.3	20
11	Using magnetoresistance to probe reversal asymmetry in exchange biased bilayers. *Journal of Applied Physics*, **2000**, 88, 344-347	2.5	47
10	Antiferromagnetic spin flop and exchange bias. *Physical Review B*, **2000**, 61, R6455-R6458	3.3	66

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