

Chris Leighton

List of Publications by Year in descending order

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197
papers

10,661
citations

29994

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98
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all docs

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docs citations

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times ranked

11010
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced superconductivity and ferroelectric quantum criticality in plastically deformed strontium titanate. <i>Nature Materials</i> , 2022, 21, 54-61.	13.3	41
2	Magnetic field dependent thermodynamic properties of square and quadrupolar artificial spin ice. <i>Physical Review B</i> , 2022, 105, .	1.1	4
3	Entropy-driven order in an array of nanomagnets. <i>Nature Physics</i> , 2022, 18, 706-712.	6.5	5
4	What controls electrostatic vs electrochemical response in electrolyte-gated materials? A perspective on critical materials factors. <i>APL Materials</i> , 2022, 10, 040901.	2.2	10
5	Finite-Size Effect in Phonon-Induced Elliott-Yafet Spin Relaxation in Al. <i>Physical Review Letters</i> , 2022, 128, .	2.9	6
6	Electrochemical mechanism of ionic-liquid gating in antiferromagnetic Mott-insulating NiS_2 single crystals. <i>Physical Review Materials</i> , 2022, 6, .	0.9	4
7	Essential role of magnetic frustration in the phase diagrams of doped cobaltites. <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
8	Chemically Induced Magnetic Dead Shells in Superparamagnetic Ni Nanoparticles Deduced from Polarized Small-Angle Neutron Scattering. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33491-33504.	4.0	2
9	Mitigation of the internal p-n junction in CoS_2 -contacted FeS_2 single crystals: Accessing bulk semiconducting transport. <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
10	Field-Induced Magnetic Monopole Plasma in Artificial Spin Ice. <i>Physical Review X</i> , 2021, 11, .	2.8	9
11	Structure-property relationships and mobility optimization in sputtered La-doped BaSn_3O films: Toward $100\times$ enhancement in $\text{La-doped BaSn}_3\text{O}$ films. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
12	Understanding magnetic phase coexistence in $\text{Ru}_2\text{Heusler}$ alloys: A neutron scattering, thermodynamic, and phenomenological analysis. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
13	Origin of the magnetic field enhancement of the spin signal in metallic nonlocal spin transport devices. <i>Physical Review B</i> , 2021, 104, .	1.1	7
14	Nature of the ferromagnetic-antiferromagnetic transition in YBaSn_3O films. <i>Physical Review B</i> , 2021, 104, .	1.1	7
15	A Quantitative Method for In-Situ Pump-Beam Metrology in Ultrafast Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 3416-3418.	0.2	0
16	Doping- and Strain-Dependent Electrolyte-Gate-Induced Perovskite to Brownmillerite Transformation in Epitaxial $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3-\delta}$ Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51205-51217.	4.0	18
17	String Phase in an Artificial Spin Ice. <i>Nature Communications</i> , 2021, 12, 6514.	5.8	9
18	Conduction via surface states in antiferromagnetic Mott-insulating NiS_2 single crystals. <i>Physical Review Materials</i> , 2021, 5, .	0.9	6

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19	Experimental Realization of the 1D Random Field Ising Model. <i>Physical Review Letters</i> , 2021, 127, 207203.	2.9	10
20	Quantitative Understanding of Superparamagnetic Blocking in Thoroughly Characterized Ni Nanoparticle Assemblies. <i>Chemistry of Materials</i> , 2020, 32, 6494-6506.	3.2	7
21	Scattering mechanisms and mobility enhancement in epitaxial BaSnO ₃ thin films probed via electrolyte gating. <i>APL Materials</i> , 2020, 8, 071113.	2.2	10
22	Voltage-induced ferromagnetism in a diamagnet. <i>Science Advances</i> , 2020, 6, eabb7721.	4.7	34
23	Sulfur Vacancy Clustering and Its Impact on Electronic Properties in Pyrite FeS ₂ . <i>Chemistry of Materials</i> , 2020, 32, 4820-4831.	3.2	21
24	Soft x-ray absorption spectroscopy and magnetic circular dichroism as operando probes of complex oxide electrolyte gate transistors. <i>Applied Physics Letters</i> , 2020, 116, 201905.	1.5	5
25	Observation of an Internal p-n Junction in Pyrite FeS ₂ Single Crystals: Potential Origin of the Low Open Circuit Voltage in Pyrite Solar Cells. , 2020, 2, 861-868.		18
26	Isotype Heterojunction Solar Cells Using n-Type Sb ₂ Se ₃ Thin Films. <i>Chemistry of Materials</i> , 2020, 32, 2621-2630.	3.2	83
27	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO ₃ thin films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	14
28	Violation of the Wiedemann-Franz law through reduction of thermal conductivity in gold thin films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	15
29	Giant anisotropic magnetoresistance in oxygen-vacancy-ordered epitaxial La _{0.5} films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	21
30	Universal superconducting precursor in three classes of unconventional superconductors. <i>Nature Communications</i> , 2019, 10, 2729.	5.8	29
31	Gate-Tuned Insulator-Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. <i>Nano Letters</i> , 2019, 19, 4738-4744.	4.5	48
32	Transport Evidence for Sulfur Vacancies as the Origin of Unintentional n-Type Doping in Pyrite FeS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15552-15563.	4.0	35
33	Magnetic small-angle neutron scattering. <i>Reviews of Modern Physics</i> , 2019, 91, .	16.4	140
34	Understanding thermal annealing of artificial spin ice. <i>APL Materials</i> , 2019, 7, .	2.2	28
35	Electrolyte-based ionic control of functional oxides. <i>Nature Materials</i> , 2019, 18, 13-18.	13.3	205
36	Low-temperature specific heat of doped SrTi ₃ : Doping dependence of the effective mass and Kadowaki-Woods scaling violation. <i>Physical Review Materials</i> , 2019, 3, .	0.9	19

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37	Wide-voltage-window reversible control of electronic transport in electrolyte-gated epitaxial BaSnO_3 thin films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	20
38	Nanoscale magnetic phase competition throughout the BaSnO_3 thin films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	13
39	Magnetic impurities as the origin of the variability in spin relaxation rates in Cu-based spin transport devices. <i>Physical Review Materials</i> , 2019, 3, .	0.9	10
40	Changes in physical properties of 4C pyrrhotite (Fe_7S_8) across the 32 K Besnus transition. <i>American Mineralogist</i> , 2018, 103, 1674-1689.	0.9	8
41	Uncovering the Microstructure of BaSnCb Thin Films Deposited on Different Substrates Using TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 2198-2199.	0.2	1
42	Atomic-resolution study of oxygen vacancy ordering in $\text{La}_0.5\text{Sr}_0.5\text{CoO}_3$ -s thin films on SrTiO_3 during in situ cooling experiments.. <i>Microscopy and Microanalysis</i> , 2018, 24, 84-85.	0.2	2
43	Microstructure characterization of BaSnO_3 thin films on LaAlO_3 and PrScO_3 substrates from transmission electron microscopy. <i>Scientific Reports</i> , 2018, 8, 10245.	1.6	13
44	Electronic structure of BaSnO_3 investigated by high-energy-resolution electron energy-loss spectroscopy and <i>ab initio</i> calculations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	0.9	11
45	Anomalous Cooling-Rate-Dependent Charge Transport in Electrolyte-Gated Rubrene Crystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4828-4833.	2.1	2
46	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped BaSnO_3 single crystals. <i>Physical Review Materials</i> , 2018, 2, 024102.	0.9	20
47	Ordered oxygen vacancy ordering in epitaxial BaSnO_3 thin films. <i>Physical Review Materials</i> , 2018, 2, 024102.	0.9	28
48	Giant electrostatic modification of magnetism via electrolyte-gate-induced cluster percolation in BaSnO_3 thin films. <i>Physical Review Materials</i> , 2018, 2, 024102.	0.9	23
49	2D Insulator-Metal Transition in Aerosol-Printed Electrolyte-Gated Indium Oxide Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600369.	2.6	38
50	Understanding magnetotransport signatures in networks of connected permalloy nanowires. <i>Physical Review B</i> , 2017, 95, .	1.1	32
51	Theory of Kondo suppression of spin polarization in nonlocal spin valves. <i>Physical Review B</i> , 2017, 95, .	1.1	13
52	Mobility-electron density relation probed via controlled oxygen vacancy doping in epitaxial BaSnO_3 . <i>APL Materials</i> , 2017, 5, 056102.	2.2	52
53	Room temperature spin Kondo effect and intermixing in Co/Cu non-local spin valves. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	10
54	Percolation via Combined Electrostatic and Chemical Doping in Complex Oxide Films. <i>Physical Review Letters</i> , 2017, 118, 106801.	2.9	3

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55	Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$. <i>Advanced Functional Materials</i> , 2017, 27, 1704233.	7.8	24
56	Probing the Electronic Structure of BaSnO_3 by EELS Analysis and ab initio Calculations. <i>Microscopy and Microanalysis</i> , 2017, 23, 1602-1603.	0.2	0
57	Enhanced spin pumping near a magnetic ordering transition. <i>Physical Review B</i> , 2017, 96, .	1.1	25
58	Thermal Conductivity: Glass-Like Through-Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$ (Adv.) <i>Tj ETQq</i> 0.0 0 rgBT4/Overlock	0.0	0
59	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	672
60	Studying the effects of interfacial coupling in $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$ thin films on SrTiO_3 using in-situ cooling experiments. <i>Microscopy and Microanalysis</i> , 2017, 23, 850-851.	0.2	0
61	Potential resolution to the doping puzzle in iron pyrite: Carrier type determination by Hall effect and thermopower. <i>Physical Review Materials</i> , 2017, 1, .	0.9	27
62	Surface conduction in iron pyrite FeS_2 . <i>Physical Review Materials</i> , 2017, 1, .	0.9	27
63	Surface conduction in FeS_2 crystals. <i>Physical Review Materials</i> , 2017, 1, .	0.9	44
64	Magnetic-field-induced changes in superparamagnetic cluster dynamics in the martensitic phase of $\text{Ni}_{43}\text{Co}_7\text{Mn}_{40}\text{Sn}_{10}$. <i>Applied Physics Letters</i> , 2016, 108, 252403.	1.5	1
65	Atomic-scale characterization of the oxygen vacancy ordering in $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ thin film grown on SrTiO_3 using in-situ cooling experiments. <i>Microscopy and Microanalysis</i> , 2016, 22, 1626-1627.	0.2	1
66	Defects, stoichiometry, and electronic transport in SrTiO_3 epilayers: A high pressure oxygen sputter deposition study. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	17
67	First-principles study of crystal and electronic structure of rare-earth cobaltites. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	19
68	Observation and modelling of ferromagnetic contact-induced spin relaxation in Hanle spin precession measurements. <i>Physical Review B</i> , 2016, 94, .	1.1	19
69	Electrostatic versus Electrochemical Doping and Control of Ferromagnetism in Ion-Gel-Gated Ultrathin $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$. <i>ACS Nano</i> , 2016, 10, 7799-7810.	7.3	81
70	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. <i>Physical Review B</i> , 2016, 93, .	1.1	18
71	Phase separation and superparamagnetism in the martensitic phase of $\text{Ni}_{50}\text{Co}_x\text{Mn}_{40}\text{Sn}_{10}$. <i>Physical Review B</i> , 2016, 93, .	1.1	10
72	Efficient spin transport through native oxides of nickel and permalloy with platinum and gold overlayers. <i>Physical Review B</i> , 2016, 93, .	1.1	29

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73	A Unified View of the Substitution-Dependent Antiferrodistortive Phase Transition in SrTiO ₃ . Chemistry of Materials, 2016, 28, 7973-7981.	3.2	14
74	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.	0.2	0
75	Simultaneous First-Order Valence and Oxygen Vacancy Order/Disorder Transitions in (Pr _{0.85} Y _{0.15}) _{0.7} Ca _{0.3} CoO ₃ via Analytical Transmission Electron Microscopy. ACS Nano, 2016, 10, 938-947.	7.3	17
76	Emergent reduced dimensionality by vertex frustration in artificial spin ice. Nature Physics, 2016, 12, 162-165.	6.5	117
77	Thermodynamics and Energy Conversion in Heusler Alloys. Springer Series in Materials Science, 2016, , 269-291.	0.4	6
78	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.	0.4	3
79	Magnetically nanostructured state in a Ni-Mn-Sn shape-memory alloy. Physical Review B, 2015, 91, .	1.1	13
80	Neutron-scattering-based evidence for interacting magnetic excitons in LaCoO ₃ . Physical Review B, 2015, 92, .	1.1	10
81	Structure and transport in high pressure oxygen sputter-deposited BaSnO ₃ . APL Materials, 2015, 3, 062509.	2.2	74
82	Phase Stability and Stoichiometry in Thin Film Iron Pyrite: Impact on Electronic Transport Properties. ACS Applied Materials & Interfaces, 2015, 7, 14130-14139.	4.0	45
83	Self-Regulation of Cu/Sn Ratio in the Synthesis of Cu ₂ ZnSnS ₄ Films. Chemistry of Materials, 2015, 27, 2507-2514.	3.2	49
84	Direct real space observation of magneto-electronic inhomogeneity in ultra-thin film La _{0.5} Sr _{0.5} CoO ₃ on SrTiO ₃ (001). Applied Physics Letters, 2014, 105, .	1.5	5
85	High Conductance 2D Transport around the Hall Mobility Peak in Electrolyte-Gated Rubrene Crystals. Physical Review Letters, 2014, 113, 246602.	2.9	39
86	Substrate and temperature dependence of the formation of the Earth abundant solar absorber Cu ₂ ZnSnS ₄ by ex situ sulfidation of cosputtered Cu-Zn-Sn films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 061203.	0.9	5
87	Magnetically inhomogeneous ground state below the first-order valence transition in $TjETQq110.784314rgBT/Overlock$. Physical Review B, 2014, 89, .	1.1	15
88	Optimization of Long-Range Order in Solvent Vapor Annealed Poly(styrene)-poly(lactide) Thin Films for Nanolithography. ACS Applied Materials & Interfaces, 2014, 6, 13770-13781.	4.0	68
89	Persistent optically induced magnetism in oxygen-deficient strontium titanate. Nature Materials, 2014, 13, 481-487.	13.3	100
90	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, 17723-17731.	3.3	210

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91	Alkali-metal-enhanced grain growth in $\text{Cu}_2\text{ZnSnS}_4$ thin films. Energy and Environmental Science, 2014, 7, 1931-1938.	15.6	124
92	Magnetocaloric effect and critical behavior in $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$: an analysis of the validity of the Maxwell relation and the nature of the phase transitions. Journal of Physics Condensed Matter, 2014, 26, 286001.	0.7	35
93	Kondo physics in non-local metallic spin transport devices. Nature Communications, 2014, 5, 3927.	5.8	49
94	Structural, transport, and magnetic properties of narrow bandwidth $\text{Nd}_1\text{Ca}_x\text{Mn}_{1-x}\text{O}$. Physical Review B, 2013, 87, .	1.1	17
95	Crystallites of magnetic charges in artificial spin ice. Nature, 2013, 500, 553-557.	13.7	197
96	Thermodynamics of energy conversion via first order phase transformation in low hysteresis magnetic materials. Energy and Environmental Science, 2013, 6, 1315.	15.6	33
97	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$ thin films. APL Materials, 2013, 1, .	2.2	124
98	Ferrimagnetism in PrCoO_3 epitaxial films. Physical Review B, 2013, 87, .	1.1	9
99	Crossover From Nanoscopic Intergranular Hopping to Conventional Charge Transport in Pyrite Thin Films. ACS Nano, 2013, 7, 2781-2789.	7.3	57
100	Energy Conversion by Multiferroic Phase Transformation. , 2012, , .		0
101	STEM ADF and EELS Study of Strain and Doping Effects in SrTiO_3 . Microscopy and Microanalysis, 2012, 18, 310-311.	0.2	0
102	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.	1.2	15
103	$\text{RbFe}_2\text{Fe}_3\text{F}_6$: Synthesis, structure, and characterization of a new charge-ordered magnetically frustrated pyrochlore-related mixed-metal Small-angle neutron scattering study of magnetic ordering and inhomogeneity across the martensitic phase transformation in Ni_5Co_m .	3.7	20
104	Ni_5Co_m thin films. Physical Review B, 2011, 83, .	1.1	28
105	Hopping transport and the Hall effect near the insulator-metal transition in electrochemically gated poly(3-hexylthiophene) transistors. Nature Communications, 2012, 3, 1210.	5.8	153
106	Single-Crystalline Silver Films for Plasmonics. Advanced Materials, 2012, 24, 3988-3992.	11.1	118
107	Transverse susceptibility as a probe of the magnetocrystalline anisotropy-driven phase transition in $\text{Pr}_0\text{Sr}_x\text{Co}_{1-x}\text{O}$. Physical Review B, 2011, 83, .	1.1	28
108	Non-lift-off Block Copolymer Lithography of 25 nm Magnetic Nanodot Arrays. ACS Applied Materials & Interfaces, 2011, 3, 3472-3481.	4.0	40

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109	Magnetotransport properties of epitaxial MgO(001)/FeRh films across the antiferromagnet to ferromagnet transition. Journal of Applied Physics, 2011, 109, .	1.1	40
110	Atomic-Resolution Imaging of Spin-State Superlattices in Nanopockets within Cobaltite Thin Films. Nano Letters, 2011, 11, 973-976.	4.5	90
111	Chemically Driven Nanoscopic Magnetic Phase Separation at the SrTiO ₃ (001)/La _{1-x} Co ₃ Interface. Coercivity Enhancement driven by interfacial magnetic phase separation in SrTiO ₃ (001)/La _{1-x} Co ₃ Interface. Physical Review B, 2011, 83, 114407.	11.1	61
112	Coercivity Enhancement driven by interfacial magnetic phase separation in SrTiO ₃ (001)/Nd _{0.5} Co ₃ Interface. Physical Review B, 2011, 83, 114407.	11.1	17
113	Growth temperature control of the epitaxy, magnetism, and transport in SrTiO ₃ (001)/La _{0.5} Sr _{0.5} Co ₃ thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	5
114	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.	0.1	5
115	Electronic transport in doped SrTiO ₃ . Conduction mechanisms and potential applications. Physical Review B, 2010, 81, .	3.1	203
116	Spontaneous formation of an exchange-spring composite via magnetic phase separation in Pr _{1-x} Co _x . Physical Review B, 2010, 82, .	1.1	30
117	Sulfurization studies of the potential thin film solar absorber Cu ₂ ZnSnS ₄ . , 2010, , .		1
118	Poly(lactide)-Poly(dimethylsiloxane)-Poly(lactide) Triblock Copolymers as Multifunctional Materials for Nanolithographic Applications. ACS Nano, 2010, 4, 725-732.	7.3	121
119	Cobalt spin states and hyperfine interactions in LaCoO ₃ by LDA+U. Physical Review B, 2010, 82, .	1.1	44
120	Low-temperature interactions of magnetic excitons in LaCoO ₃ . Physical Review B, 2009, 79, .	1.1	14
121	Synthesis and characterization of highly spin-polarized single-phase Co _{1-x} Fe _x S ₂ films. Journal of Applied Physics, 2009, 105, .	1.1	10
122	Spin-dependent intergranular transport in highly spin-polarized Co _{1-x} Fe _x S ₂ thin films. Applied Physics Letters, 2009, 95, 182510.	1.5	2
123	Heat capacity study of magnetoelectronic phase separation in LaCoO ₃ crystals. Physical Review B, 2009, 80, .	1.1	51
124	Low temperature Schottky anomalies in the specific heat of LaCoO ₃ : Defect-stabilized finite spin states. Applied Physics Letters, 2009, 94, .	1.5	48
125	The minority spin surface bands of Co ₂ (001). Journal of Physics Condensed Matter, 2009, 21, 295501.	0.7	9
126	The Nano-Jackhammer effect in probing near-surface mechanical properties. International Journal of Plasticity, 2009, 25, 2045-2058.	4.1	34

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127	Dielectric response to the low-temperature magnetic defect structure and spin state transition in polycrystalline LaCoO_3 . Physical Review B, 2009, 79, .	1.1	53
128	Composite Block Polymer μ -Microfabricated Silicon Nanoporous Membrane. ACS Applied Materials & Interfaces, 2009, 1, 888-893.	4.0	55
129	Magnetocaloric effect and refrigerant capacity in charge-ordered manganites. Journal of Applied Physics, 2009, 106, .	1.1	178
130	Coupled structural/magnetocrystalline anisotropy transitions in the doped perovskite cobaltite $\text{Pr}_{1-x}\text{Ca}_x\text{CoO}_3$. Physical Review B, 2009, 79, .	1.1	45
131	Doping fluctuation-driven magneto-electronic phase separation in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ single crystals. Europhysics Letters, 2009, 87, 27006.	0.7	45
132	Transport signatures of percolation and electronic phase homogeneity in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ single crystals. Applied Physics Letters, 2009, 95, 222511.	1.5	11
133	Epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ thin films: Structure, magnetism, and transport. Journal of Applied Physics, 2008, 104, .	1.1	69
134	Effects of interface states on the transport properties of all-oxide $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3/\text{SrTi}_{0.99}\text{Nb}_{0.01}\text{O}_3$ p-n heterojunctions. Applied Physics Letters, 2008, 92, 082106.	1.5	24
135	Spontaneous alignment of self-assembled ABC triblock terpolymers for large-area nanolithography. Applied Physics Letters, 2008, 93, 133112.	1.5	16
136	Identification and separation of two distinct contributions to the training effect in polycrystalline $\text{Co}_{1-x}\text{Fe}_x\text{Mn}$ bilayers. Physical Review B, 2008, 77, .	1.1	41
137	Strongly inhomogeneous conduction in cobaltite films: Non-Gaussian resistance noise. Physical Review B, 2008, 78, .	1.1	10
138	Spin polarons in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ crystals. Physical Review B, 2008, 78, .	1.1	17
139	Comparison between micromagnetic simulation and experiment for the $\text{Co}_{50}\text{Fe}_{50}$ exchange-biased system. Journal of Applied Physics, 2007, 102, 073901.	1.1	8
140	Composition controlled spin polarization in $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$ alloys. Journal of Physics Condensed Matter, 2007, 19, 315219. phase above the Curie temperature of the doped perovskite cobaltite	0.7	39
141	Direct Measurement of the Low-Temperature Spin-State Transition in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. Physical Review Letters, 2007, 99, 047203.	2.9	164
142	Disorder and double-exchange spin dynamics in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ and $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$ from NMR hyperfine couplings. Physical Review B, 2007, 75, .	1.1	15
143	Multiple antiferromagnet/ferromagnet interfaces as a probe of grain-size-dependent exchange bias in polycrystalline $\text{Co}/\text{Fe}_{50}\text{Mn}_{50}$. Journal of Magnetism and Magnetic Materials, 2007, 309, 54-63.	1.0	26

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145	Electrodeposition of Co/Cu Multilayered Nanowires with Controlled Crystallographic Orientation. , 2006, , .		0
146	Magnetic and electronic properties of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ single crystals across the percolation metal-insulator transition. <i>Physical Review B</i> , 2006, 74, .	1.1	74
147	Composition controlled spin polarization in $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$: Electronic, magnetic, and thermodynamic properties. <i>Physical Review B</i> , 2006, 73, .	1.1	43
148	Spin Dynamics in Highly Spin Polarized $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
149	Electronic structure of $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2117-2121.	0.7	25
150	Artificial "spin ice"™ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. <i>Nature</i> , 2006, 439, 303-306.	13.7	729
151	Local matrix-cluster interactions in a phase separated perovskite. <i>Physical Review B</i> , 2006, 74, .	1.1	19
152	Glassy transport phenomena in a phase-separated perovskite cobaltite. <i>Physical Review B</i> , 2006, 73, .	1.1	41
153	Magneto-optical study of magnetization reversal asymmetry in exchange bias. <i>Applied Physics Letters</i> , 2006, 89, 202512.	1.5	36
154	Sulfur stoichiometry effects in highly spin polarized CoS_2 single crystals. <i>Applied Physics Letters</i> , 2006, 88, 232509.	1.5	35
155	Colossal magnetotransport phenomena due to phase competition in $\text{Pr}_{1-x}(\text{Ca}_y\text{Sr}_{1-y})_x\text{MnO}_3$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 288, 146-154.	1.0	4
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