Chris Leighton

List of Publications by Year
in descending order

197 papers	10,661 citations	29994 54 h-index	34900 98 g-index
199 all docs	199 docs citations	199 times ranked	11010 citing authors

#	Article	IF	Citations
1	Artificial â€˜spin iceâ€™ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. Nature, 2006, 439, 303-306.	13.7	729
2	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	16.4	672
3	Glassy ferromagnetism and magnetic phase separation inLa1â^'xSrxCoO3. Physical Review B, 2003, 67, .	1.1	497
4	Asymmetric Magnetization Reversal in Exchange-Biased Hysteresis Loops. Physical Review Letters, 2000, 84, 3986-3989.	2.9	310
5	Coercivity Enhancement in Exchange Biased Systems Driven by Interfacial Magnetic Frustration. Physical Review Letters, 2000, 84, 3466-3469.	2.9	258
6	Correlation between antiferromagnetic interface coupling and positive exchange bias. Physical Review B, 2000, 61, 1315-1317.	1.1	239
7	Sphericity and symmetry breaking in the formation of Frankâ€“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
8	Electrolyte-based ionic control of functional oxides. Nature Materials, 2019, 18, 13-18.	13.3	205
9	Electronic transport in doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>: Conduction mechanisms and potential applications. Physical Review B, 2010, 81, .	3.7	203
10	Crystallites of magnetic charges in artificial spin ice. Nature, 2013, 500, 553-557.	13.7	197
11	Magnetocaloric effect and refrigerant capacity in charge-ordered manganites. Journal of Applied Physics, 2009, 106, .	1.1	178
12	Direct Measurement of the Low-Temperature Spin-State Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2007, 99, 047203.	2.9	164
13	Intergranular Giant Magnetoresistance in a Spontaneously Phase Separated Perovskite Oxide. Physical Review Letters, 2005, 94, 037201.	2.9	160
14	Hopping transport and the Hall effect near the insulatorâ€“metal transition in electrochemically gated poly(3-hexylthiophene) transistors. Nature Communications, 2012, 3, 1210.	5.8	153
15	Magnetic Phase Separation inLa1â^'xSrxCoO3byCo59Nuclear Magnetic Resonance. Physical Review Letters, 2003, 91, 127202.	2.9	148
16	Magnetic small-angle neutron scattering. Reviews of Modern Physics, 2019, 91, .	16.4	140
17	Reliability of normal-state currentâ€“voltage characteristics as an indicator of tunnel-junction barrier quality. Applied Physics Letters, 2000, 77, 1870.	1.5	137
18	Magnetic superlattices and multilayers. Journal of Magnetism and Magnetic Materials, 1999, 200, 571-582.	1.0	124

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19	Two-Stage Magnetization Reversal in Exchange Biased Bilayers. Physical Review Letters, 2001, 86, 4394-4397.	2.9	124
20	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial La0.5Sr0.5CoO3-Î´ thin films. APL Materials, 2013, 1, .	2.2	124
21	Alkali-metal-enhanced grain growth in Cu₂ZnSnS₄ thin films. Energy and Environmental Science, 2014, 7, 1931-1938.	15.6	124
22	Polylactideâ^'Poly(dimethylsiloxane)â^'Polylactide Triblock Copolymers as Multifunctional Materials for Nanolithographic Applications. ACS Nano, 2010, 4, 725-732.	7.3	121
23	Singleâ€Crystalline Silver Films for Plasmonics. Advanced Materials, 2012, 24, 3988-3992.	11.1	118
24	Emergent reduced dimensionality by vertex frustration in artificial spin ice. Nature Physics, 2016, 12, 162-165.	6.5	117
25	Tuning exchange bias. Applied Physics Letters, 1999, 75, 2304-2306.	1.5	111
26	Non-Griffiths-like clustered phase above the Curie temperature of the doped perovskite cobaltite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>	1.1	110
27	Fabrication and thermal stability of arrays of Fe nanodots. Applied Physics Letters, 2002, 81, 4434-4436.	1.5	109
28	Thickness-dependent coercive mechanisms in exchange-biased bilayers. Physical Review B, 2002, 65, .	1.1	108
29	Persistent optically induced magnetism in oxygen-deficient strontium titanate. Nature Materials, 2014, 13, 481-487.	13.3	100
30	Effect of anisotropy on the critical antiferromagnet thickness in exchange-biased bilayers. Physical Review B, 2002, 66, .	1.1	90
31	Atomic-Resolution Imaging of Spin-State Superlattices in Nanopockets within Cobaltite Thin Films. Nano Letters, 2011, 11, 973-976.	4.5	90
32	Competing interfacial exchange and Zeeman energies in exchange biased bilayers. Physical Review B, 1999, 60, 12837-12840.	1.1	88
33	Persistent and transient photoconductivity in oxygen-deficientLa2/3Sr1/3MnO3â^'Î´thin films. Physical Review B, 2001, 63, .	1.1	86
34	Isotype Heterojunction Solar Cells Using n-Type Sb₂Se₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	3.2	83
35	Large area nanolithographic templates by selective etching of chemically stained block copolymer thin films. Journal of Materials Chemistry, 2004, 14, 2729.	6.7	81
36	Electrostatic versus Electrochemical Doping and Control of Ferromagnetism in Ion-Gel-Gated Ultrathin La_{0.5}Sr_{0.5}CoO_{3â^'Î´}. ACS Nano, 2016, 10, 7799-7810.	7.3	81

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37	Thermally excited spin-disorder contribution to the resistivity ofLaCoO3. Physical Review B, 2002, 65, .	1.1	80
38	Perpendicular Domain Orientation in Thin Films of Polystyreneâ˜'Polylactide Diblock Copolymers. Macromolecules, 2005, 38, 10101-10108.	2.2	80
39	Anomalous magnetotransport properties of epitaxial full Heusler alloys. Applied Physics Letters, 2002, 80, 4798-4800.	1.5	78
40	Co1â˜'xFexS2: A Tunable Source of Highly Spin-Polarized Electrons. Physical Review Letters, 2005, 94, 056602.	2.9	77
41	Magnetic and electronic properties ofLa1â˜'xSrxCoO3single crystals across the percolation metal-insulator transition. Physical Review B, 2006, 74, .	1.1	74
42	Structure and transport in high pressure oxygen sputter-deposited BaSnO_{3â˜'Î´}. APL Materials, 2015, 3, 062509.	2.2	74
43	Relation between exchange anisotropy and magnetization reversal asymmetry inFe/MnF2bilayers. Physical Review B, 2002, 65, .	1.1	70
44	Small-angle neutron scattering study of magnetic ordering and inhomogeneity across the martensitic phase transformation in Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>50</mml:mn><mml:mo>â˜'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Mn<mml:math xmlns:mml="http://www.w3.org/1998/Ma	1.1	70
45	Antiferromagnetic spin flop and exchange bias. Physical Review B, 2000, 61, R6455-R6458.	1.1	69
46	Epitaxial La0.5Sr0.5CoO3 thin films: Structure, magnetism, and transport. Journal of Applied Physics, 2008, 104, .	1.1	69
47	Optimization of Long-Range Order in Solvent Vapor Annealed Poly(styrene)-block-poly(lactide) Thin Films for Nanolithography. ACS Applied Materials & Interfaces, 2014, 6, 13770-13781.	4.0	68
48	Magnetization reversal and nanoscopic magnetic-phase separation inLa1â˜'xSrxCoO3. Physical Review B, 2005, 72, .	1.1	64
49	Coercivity enhancement above the NÃ©el temperature of an antiferromagnet/ferromagnet bilayer. Journal of Applied Physics, 2002, 92, 1483-1488.	1.1	62
50	Chemically Driven Nanoscopic Magnetic Phase Separation at the SrTiO₃(001)/La_{1â€x}Sr_xCoO₃ Interface. Advanced Materials, 2011, 23, 2711-2715.	11.1	61
51	Magnetic phase behavior of the ferrimagnetic doped cobaltiteNd1â˜'xSrxCoO3. Physical Review B, 2004, 70, .	1.1	60
52	Spin-dependent band structure effects and measurement of the spin polarization in the candidate half-metalCoS2. Physical Review B, 2004, 69, .	1.1	57
53	Crossover From Nanoscopic Intergranular Hopping to Conventional Charge Transport in Pyrite Thin Films. ACS Nano, 2013, 7, 2781-2789.	7.3	57
54	Composite Block Polymerâ˜'Microfabricated Silicon Nanoporous Membrane. ACS Applied Materials & Interfaces, 2009, 1, 888-893.	4.0	55

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55	Pinholes may mimic tunneling. Journal of Applied Physics, 2001, 89, 2786-2790.	1.1	54
56	Criteria for ferromagneticâ€“insulatorâ€“ferromagnetic tunneling. Journal of Magnetism and Magnetic Materials, 2002, 240, 86-91.	1.0	54
57	Spin dynamics inLa1â^'xSrxCoO3. Physical Review B, 2004, 69, .	1.1	53
58	Dielectric response to the low-temperature magnetic defect structure and spin state transition in polycrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: Physical Review B, 2009, 79, .	1.1	53
59	Using magnetoresistance to probe reversal asymmetry in exchange biased bilayers. Journal of Applied Physics, 2000, 88, 344-347.	1.1	52
60	Mobility-electron density relation probed via controlled oxygen vacancy doping in epitaxial BaSnO₃. APL Materials, 2017, 5, 056102.	2.2	52
61	Heat capacity study of magnetoelectronic phase separation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml: crystals. Physical Review B, 2009, 80, .	1.1	51
62	Kondo physics in non-local metallic spin transport devices. Nature Communications, 2014, 5, 3927.	5.8	49
63	Self-Regulation of Cu/Sn Ratio in the Synthesis of Cu₂ZnSnS₄ Films. Chemistry of Materials, 2015, 27, 2507-2514.	3.2	49
64	Low temperature Schottky anomalies in the specific heat of LaCoO3: Defect-stabilized finite spin states. Applied Physics Letters, 2009, 94, .	1.5	48
65	Gate-Tuned Insulatorâ€“Metal Transition in Electrolyte-Gated Transistors Based on Tellurene. Nano Letters, 2019, 19, 4738-4744.	4.5	48
66	Evolution of the ferromagnetic and nonferromagnetic phases with temperature in phase-separated La1â^'xSrxCoO3 by high-field La139 NMR. Physical Review B, 2004, 70, .	1.1	46
67	Coupled structural/magnetocrystalline anisotropy transitions in the doped perovskite cobaltite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pr</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml: Physical Review B, 2009, 79, .	1.1	45
68	Doping fluctuation-driven magneto-electronic phase separation in La _{1â^' x} Sr _x CoO ₃ single crystals. Europhysics Letters, 2009, 87, 27006.	0.7	45
69	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
70	Cobalt spin states and hyperfine interactions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaCoO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>LDA</mml:mtext><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow></mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Co</mml:mi><mml:msu	1.1	44
71		0.9	44
72	Composition controlled spin polarization inCo1â^'xFexS2: Electronic, magnetic, and thermodynamic properties. Physical Review B, 2006, 73, .	1.1	43

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73	Glassy transport phenomena in a phase-separated perovskite cobaltite. Physical Review B, 2006, 73, .	1.1	41
74	Identification and separation of two distinct contributions to the training effect in polycrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Co</mml:mi><mml:mo>â^•</mml:mo><mml:mi>FeMn</mml:mi></mml:mrow></mml:math>bila Physical Review B, 2008, 77, .	1.1	41
75	Enhanced superconductivity and ferroelectric quantum criticality in plastically deformed strontium titanate. Nature Materials, 2022, 21, 54-61.	13.3	41
76	Non-lift-off Block Copolymer Lithography of 25 nm Magnetic Nanodot Arrays. ACS Applied Materials & Interfaces, 2011, 3, 3472-3481.	4.0	40
77	Magnetotransport properties of epitaxial MgO(001)/FeRh films across the antiferromagnet to ferromagnet transition. Journal of Applied Physics, 2011, 109, .	1.1	40
78	Composition controlled spin polarization in Co_{1â^'x}Fe_xS₂alloys. Journal of Physics Condensed Matter, 2007, 19, 315219.	0.7	39
79	High Conductance 2D Transport around the Hall Mobility Peak in Electrolyte-Gated Rubrene Crystals. Physical Review Letters, 2014, 113, 246602.	2.9	39
80	2D Insulatorâ€“Metal Transition in Aerosolâ€Jetâ€Printed Electrolyteâ€Gated Indium Oxide Thin Film Transistors. Advanced Electronic Materials, 2017, 3, 1600369.	2.6	38
81	Origin of complex exchange anisotropy inFe/MnF2bilayers. Physical Review B, 2003, 68, .	1.1	36
82	Observation of magnetic excitons in LaCoO 3. Europhysics Letters, 2005, 70, 677-683.	0.7	36
83	Magneto-optical study of magnetization reversal asymmetry in exchange bias. Applied Physics Letters, 2006, 89, 202512.	1.5	36
84	Sulfur stoichiometry effects in highly spin polarized CoS2 single crystals. Applied Physics Letters, 2006, 88, 232509.	1.5	35
85	Magnetocaloric effect and critical behavior in Pr_{0.5}Sr_{0.5}MnO₃: 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
86	Transport Evidence for Sulfur Vacancies as the Origin of Unintentional n-Type Doping in Pyrite FeS₂. ACS Applied Materials & Interfaces, 2019, 11, 15552-15563.	4.0	35
87	Growth temperature controlled magnetism in molecular beam epitaxially grown Ni2MnAl Heusler alloy. Journal of Crystal Growth, 2003, 254, 384-389.	0.7	34
88	The Nano-Jackhammer effect in probing near-surface mechanical properties. International Journal of Plasticity, 2009, 25, 2045-2058.	4.1	34
89	Voltage-induced ferromagnetism in a diamagnet. Science Advances, 2020, 6, eabb7721.	4.7	34
90	Thermodynamics of energy conversion via first order phase transformation in low hysteresis magnetic materials. Energy and Environmental Science, 2013, 6, 1315.	15.6	33

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91	Understanding magnetotransport signatures in networks of connected permalloy nanowires. Physical Review B, 2017, 95, .	1.1	32
92	Metallic conductivity near the metal-insulator transition inCd1â^'xMnxTe. Physical Review B, 1998, 58, 9773-9782.	1.1	30
93	Influence of interfacial disorder and temperature on magnetization reversal in exchange-coupled bilayers. Physical Review B, 2001, 64, .	1.1	30
94	Spontaneous formation of an exchange-spring composite via magnetic phase separation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pr</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2010, 82, .	1.1	30
95	Efficient spin transport through native oxides of nickel and permalloy with platinum and gold overlayers. Physical Review B, 2016, 93, .	1.1	29
96	Universal superconducting precursor in three classes of unconventional superconductors. Nature Communications, 2019, 10, 2729.	5.8	29
97	Transverse susceptibility as a probe of the magnetocrystalline anisotropy-driven phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Pr</mml:mi><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>5</mml:mn></mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>5</mml:mn></mml:mrow><mml:mi mathvariant="normal">CoO</mml:mi><mml:. Physical Review B, 2011, 83, .	1.1	28
98	Understanding thermal annealing of artificial spin ice. APL Materials, 2019, 7, .	2.2	28
99	Perpendicular magnetic anisotropy via strain-engineered oxygen vacancy ordering in epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Co</mml:mi><mml:msub><mml:mi	0.9	28
100	Potential resolution to the doping puzzle in iron pyrite: Carrier type determination by Hall effect and thermopower. Physical Review Materials, 2017, 1, .	0.9	27
101	Surface conduction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math>-type pyrite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>FeS</mml:mi><mml:mn>2</mml:mn></mml:msub></m crystals. Physical Review Materials, 2017, 1, .	0.9	27
102	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.	1.0	26
103	Electronic structure of Co1â€“xFexS2. Physica Status Solidi (B): Basic Research, 2006, 243, 2117-2121.	0.7	25
104	Enhanced spin pumping near a magnetic ordering transition. Physical Review B, 2017, 96, .	1.1	25
105	Effects of interface states on the transport properties of all-oxide La0.8Sr0.2CoO3â•SrTi0.99Nb0.01O3 p-n heterojunctions. Applied Physics Letters, 2008, 92, 082106.	1.5	24
106	Glassâ€Like Throughâ€Plane Thermal Conductivity Induced by Oxygen Vacancies in Nanoscale Epitaxial La_{0.5}Sr_{0.5}CoO_{3â^'}_{Î´}. Advanced Functional Materials, 2017, 27, 1704233.	7.8	24
107	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.	1.1	23
108	Giant electrostatic modification of magnetism via electrolyte-gate-induced cluster percolation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Co</mml:mi><mml:msub><mml:mi	0.9	23

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109	Interfacially dominated giant magnetoresistance in Fe/Cr superlattices. Physical Review B, 2001, 65, .	1.1	22
110	Sulfur Vacancy Clustering and Its Impact on Electronic Properties in Pyrite FeS₂. Chemistry of Materials, 2020, 32, 4820-4831.	3.2	21
111	Giant anisotropic magnetoresistance in oxygen-vacancy-ordered epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.5</mml:mn><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math> films. Physical Review Materials, 2020, 4, .	2.9	21
112	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.	3.7	20
113	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaSn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> single crystals. Physical Review Materials, 2018, 2, .	0.9	20
114	Wide-voltage-window reversible control of electronic transport in electrolyte-gated epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaSnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> Physical Review Materials, 2019, 3, .	0.9	20
115	Local matrix-cluster interactions in a phase separated perovskite. Physical Review B, 2006, 74, .	1.1	19
116	First-principles study of crystal and electronic structure of rare-earth cobaltites. Journal of Applied Physics, 2016, 119, .	1.1	19
117	Observation and modelling of ferromagnetic contact-induced spin relaxation in Hanle spin precession measurements. Physical Review B, 2016, 94, .	1.1	19
118	Low-temperature specific heat of doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> : Doping dependence of the effective mass and Kadowaki-Woods scaling violation. Physical Review Materials, 2019, 3, .	0.9	19
119	Interdiffusion-controlled Kondo suppression of injection efficiency in metallic nonlocal spin valves. Physical Review B, 2016, 93, .	1.1	18
120	Observation of an Internal pâ€“n Junction in Pyrite FeS₂ Single Crystals: Potential Origin of the Low Open Circuit Voltage in Pyrite Solar Cells. , 2020, 2, 861-868.		18
121	Doping- and Strain-Dependent Electrolyte-Gate-Induced Perovskite to Brownmillerite Transformation in Epitaxial La_{1â€“x}Sr_xCoO_{3â^’Î´} Films. ACS Applied Materials & Interfaces, 2021, 13, 51205-51217.	4.0	18
122	Spin polarons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> crystals. Physical Review B, 2008, 78, .	1.1	17
123	Structural, transport, and magnetic properties of narrow bandwidth Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>(001)/Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>CoO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mi>	1.1	17
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