

Luis Balicas

List of Publications by Year in descending order

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266
papers

16,031
citations

22153
59
h-index

17592
121
g-index

269
all docs

269
docs citations

269
times ranked

17164
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic layers of hybridized boron nitride and graphene domains. <i>Nature Materials</i> , 2010, 9, 430-435.	27.5	2,002
2	Superconductivity at 250 K in lanthanum hydride under high pressures. <i>Nature</i> , 2019, 569, 528-531.	27.8	960
3	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. <i>ACS Nano</i> , 2013, 7, 5235-5242.	14.6	534
4	Electron pockets in the Fermi surface of hole-doped high-T _c superconductors. <i>Nature</i> , 2007, 450, 533-536.	27.8	443
5	One-pot growth of two-dimensional lateral heterostructures via sequential edge-epitaxy. <i>Nature</i> , 2018, 553, 63-67.	27.8	394
6	New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. <i>Scientific Reports</i> , 2014, 4, 4215.	3.3	367
7	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe _{1-x} Cox)₂As₂. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	337
8	Field-Effect Transistors Based on Few-Layered $\pm\text{-MoTe}_2$. <i>ACS Nano</i> , 2014, 8, 5911-5920.	14.6	333
9	Metallic Spin-Liquid Behavior of the Geometrically Frustrated Kondo Lattice Pr₂Ir₂O₇. <i>Physical Review Letters</i> , 2006, 96, 087204.	7.8	312
10	Surface electronic structure of the topological Kondo-insulator candidate correlated electron system SmB₆. <i>Nature Communications</i> , 2013, 4, 2991.	12.8	308
11	Superconductivity and quantum criticality in the heavy-fermion system YbAlB_4 . <i>Nature Physics</i> , 2008, 4, 603-607.	16.7	307
12	An ultrafast symmetry switch in a Weyl semimetal. <i>Nature</i> , 2019, 565, 61-66.	27.8	307
13	Upper critical fields and thermally-activated transport of $\text{NdFeAsO}_{3.2}$ crystal. <i>Physical Review B</i> , 2008, 78, .	3.2	303
14	A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor. <i>Nature</i> , 2003, 425, 814-817.	27.8	267
15	Unconventional Fermi surface in an insulating state. <i>Science</i> , 2015, 349, 287-290.	12.6	229
16	Dimensional reduction at a quantum critical point. <i>Nature</i> , 2006, 441, 617-620.	27.8	211
17	Artificially Stacked Atomic Layers: Toward New van der Waals Solids. <i>Nano Letters</i> , 2012, 12, 3518-3525.	9.1	211
18	Superconductivity up to 243 K in the yttrium-hydrogen system under high pressure. <i>Nature Communications</i> , 2021, 12, 5075.	12.8	202

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19	Superconductivity in an Organic Insulator at Very High Magnetic Fields. <i>Physical Review Letters</i> , 2001, 87, 067002.	7.8	195
20	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014, 1, 011004.	4.4	195
21	Lifshitz critical point in the cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$ from high-field Hall effect measurements. <i>Physical Review B</i> , 2011, 83, 189.		
22	Linear temperature dependence of resistivity and change in the Fermi surface at the pseudogap critical point of a high-T _c superconductor. <i>Nature Physics</i> , 2009, 5, 31-34.	16.7	185
23	Gapped itinerant spin excitations account for missing entropy in the hidden-order state of URu ₂ Si ₂ . <i>Nature Physics</i> , 2007, 3, 96-99.	16.7	162
24	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. <i>Nano Letters</i> , 2019, 19, 4371-4379.	9.1	161
25	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	14.6	149
26	Anisotropic scattering and anomalous normal-state transport in a high-temperature superconductor. <i>Nature Physics</i> , 2006, 2, 821-825.	16.7	148
27	Signatures of Electron Fractionalization in Ultraquantum Bismuth. <i>Science</i> , 2007, 317, 1729-1731.	12.6	144
28	Heavy-Mass Fermi Liquid near a Ferromagnetic Instability in Layered Ruthenates. <i>Physical Review Letters</i> , 2003, 90, 137202.	7.8	134
29	High Pressure Sequence of Structural Phases: Ba_2NiSb_3 . <i>Structural Phases: New</i> Spin Liquid State in the mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{O}_9\text{NiSb}_3. <i>Quantum Lattice</i> $\text{S}\text{Ba}_2\text{NiSb}_3$. <i>Physical Review Letters</i> , 2011, 106, 147204.	7.8	133
30	Engineering the Structural and Electronic Phases of MoTe ₂ through W Substitution. <i>Nano Letters</i> , 2017, 17, 1616-1622.	7.8	128
31	Ambipolar Molybdenum Diselenide Field-Effect Transistors: Field-Effect and Hall Mobilities. <i>ACS Nano</i> , 2014, 8, 7923-7929.	14.6	121
32	Atypical Exciton-Phonon Interactions in WS ₂ and WSe ₂ Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 2363-2368.	9.1	118
33	High Photoresponsivity and Short Photoresponse Times in Few-Layered WSe ₂ Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12080-12088.	8.0	111
34	Intersite Coupling Effects in a Kondo Lattice. <i>Physical Review Letters</i> , 2002, 89, 106402.	7.8	109
35	Intrinsic carrier mobility of multi-layered MoS ₂ field-effect transistors on SiO ₂ . <i>Applied Physics Letters</i> , 2013, 102, 123105.	3.3	108

#	ARTICLE	IF	CITATIONS
37	Hall and field-effect mobilities in few layered p-WSe ₂ field-effect transistors. <i>Scientific Reports</i> , 2015, 5, 8979.	3.3	107
38	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . <i>Nano Letters</i> , 2015, 15, 8377-8384.	9.1	101
39	Pronounced Photovoltaic Response from Multilayered Transition-Metal Dichalcogenides PN-Junctions. <i>Nano Letters</i> , 2015, 15, 7532-7538.	9.1	98
40	Dynamic Spin Ice: $\Pr_2\text{Mn}_7\text{O}_{12}$. <i>Physical Review Letters</i> , 2008, 101, 227204.	7.8	92
41	Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn ₅ . <i>Nature</i> , 2017, 548, 313-317.	27.8	89
42	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. <i>ACS Nano</i> , 2019, 13, 12372-12384.	14.6	89
43	Composite fermions and broken symmetries in graphene. <i>Nature Communications</i> , 2015, 6, 5838.	12.8	84
44	Fermi surface in the absence of a Fermi liquid in the Kondo insulator SmB ₆ . <i>Nature Physics</i> , 2018, 14, 166-172.	16.7	81
45	Correlation between the Superconducting Transition Temperature and Anisotropic Quasiparticle Scattering in $\text{Ba}_{1-x}\text{Sr}_x\text{CuO}_2$. <i>Physical Review Letters</i> , 2007, 99, 107002.	7.8	78
46	Characteristic Bose-Einstein condensation scaling close to a quantum critical point in BaCuSi ₂ O ₆ . <i>Physical Review B</i> , 2005, 72, .	3.2	76
47	Role of spin-orbit coupling and evolution of the electronic structure of WTe_2 in an external magnetic field. <i>Physical Review B</i> , 2015, 92, .	3.2	76
48	Bulk Fermi surface of the Weyl type-II semimetallic candidate $\text{Mo}_{1-x}\text{W}_{x/2}\text{Te}_3$. <i>Physical Review B</i> , 2017, 96, .	3.2	76
49	Sequential Spin Polarization of the Fermi Surface Pockets in URu_2Si_2 . Its Implications for the Hidden Order. <i>Physical Review Letters</i> , 2011, 106, 146403.	7.8	70
50	Hall effect within the colossal magnetoresistive semimetallic state of MoTe_2 . <i>Physical Review B</i> , 2016, 94, .	3.2	69
51	Chemical Pressure Effects on Pyrochlore Spin Ice. <i>Physical Review Letters</i> , 2012, 108, 207206.	7.8	67
52	Field-Induced Fermi Surface Reconstruction and Adiabatic Continuity between Antiferromagnetism and the Hidden-Order State in URu_2Si_2 . <i>Physical Review Letters</i> , 2007, 98, 166404.	7.8	66
53	Intricate Resonant Raman Response in Anisotropic ReS ₂ . <i>Nano Letters</i> , 2017, 17, 5897-5907.	9.1	66
54	High pressure route to generate magnetic monopole dimers in spin ice. <i>Nature Communications</i> , 2011, 2, 478.	12.8	65

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55	Tunable Electronics in Large-Area Atomic Layers of Boronâ€“Nitrogenâ€“Carbon. <i>Nano Letters</i> , 2013, 13, 3476-3481.	9.1	65
56	Superconductivity with extremely large upper critical fields in Nb ₂ Pd _{0.81} S ₅ . <i>Scientific Reports</i> , 2013, 3, 1446.	3.3	64
57	Competing ground states in triple-layered Sr ₄ Ru ₃ O ₁₀ : Verging on itinerant ferromagnetism with critical fluctuations. <i>Physical Review B</i> , 2003, 68, .	3.2	62
58	Ba ₃ NbFe ₃ Si ₂ O ₁₄ : A New Multiferroic with a 2D Triangular Fe ³⁺ Motif. <i>Chemistry of Materials</i> , 2009, 21, 156-159.	6.7	62
59	Superconducting phase diagram of H ₃ S under high magnetic fields. <i>Nature Communications</i> , 2019, 10, 2522.	12.8	62
60	Magnetic field-tuned quantum critical point in CeAuSb ₂ . <i>Physical Review B</i> , 2005, 72, .	3.2	60
61	Determination of the Fermi Surface of MgB ₂ by the de Haasâ€“van Alphen Effect. <i>Physical Review Letters</i> , 2003, 91, 037003.	7.8	58
62	First-Order Transition from a Kondo Insulator to a Ferromagnetic Metal in Single Crystalline FeSi _{1-x} Gex. <i>Physical Review Letters</i> , 2003, 91, 046401.	7.8	56
63	Evolution of the Fermi Surface and Quasiparticle Renormalization through a van Hove Singularity in $\text{Sr}_{2-x}\text{Fe}_{1-x}\text{O}_y$. <i>Physical Review Letters</i> , 2007, 99, 187001.	7.8	56
64	Sign Reversal of the Quantum Hall Number in (TMTSF) ₂ PF ₆ . <i>Physical Review Letters</i> , 1995, 75, 2000-2003.	7.8	55
65	Bose-Einstein condensation of triplons in $\text{Ba}_{3-x}\text{Fe}_{1-x}\text{O}_y$. <i>Physical Review B</i> , 2009, 79, .	3.2	55
66	Sr ₂ RhO ₄ : a new, clean correlated electron metal. <i>New Journal of Physics</i> , 2006, 8, 175-175.	2.9	54
67	Anisotropic Hysteretic Hall Effect and Magnetic Control of Chiral Domains in the Chiral Spin States of $\text{Pr}_{2-x}\text{Fe}_{1-x}\text{O}_y$. <i>Physical Review Letters</i> , 2011, 106, 217204.	7.8	53
68	Confinement in Bechgaard Salts: Anomalous Magnetoresistance and Nuclear Relaxation. <i>Physical Review Letters</i> , 1995, 74, 5272-5275.	7.8	52
69	4f-Electron Localization in $\text{Ce}_{x}\text{La}_{1-x}\text{MIn}_5$ with M=Co, Rh, or Ir. <i>Physical Review Letters</i> , 2004, 93, 186405.	7.8	50
70	3:1 magnetization plateau and suppression of ferroelectric polarization in an Ising chain multiferroic. <i>Physical Review B</i> , 2009, 79, .	3.2	49
71	Detailed study of the Fermi surfaces of the type-II Dirac semimetallic candidates $\text{Ta}_{2-x}\text{Nb}_{1-x}\text{Pd}$ ($X = \text{Pd}, \text{Pt}$). <i>Physical Review B</i> , 2018, 97, .	3.2	49
72	Enhanced Superconductivity in Monolayer MoTe_2 . <i>Nano Letters</i> , 2021, 21, 2505-2511.	9.1	49

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73	Global Phase Diagram of the Magnetic Field-Induced Organic Superconductors $\text{-(BETS)}_2\text{Fe}_x\text{Ga}_{1-x}\text{Cl}_4$. Journal of the Physical Society of Japan, 2003, 72, 369-373.	1.6	48
74	Orbital-Ordering Transition in $\text{Sr}_2\text{V}_2\text{O}_5$. Physical Review Letters, 2007, 99, 136403.		
75	Competition between Pauli and orbital effects in a charge-density-wave system. Physical Review B, 2000, 62, 10008-10012.	3.2	44
76	Interplanar coupling-dependent magnetoresistivity in high-purity layered metals. Nature Communications, 2016, 7, 10903.	12.8	44
77	Superconductivity and magnetic field induced spin density waves in the (TMTTF)2X family. Journal De Physique, I, 1994, 4, 1539-1549.	1.2	44
78	Three-Dimensional Fermi-Liquid Ground State in the Quasi-One-Dimensional Cuprate $\text{PrBa}_2\text{Cu}_4\text{O}_8$. Physical Review Letters, 2002, 89, 086601.	7.8	43
79	Transition from slow Abrikosov to fast moving Josephson vortices in iron pnictide superconductors. Nature Materials, 2013, 12, 134-138.	27.5	43
80	Anomalous insulator-metal transition in boron nitride-graphene hybrid atomic layers. Physical Review B, 2012, 86, .	3.2	42
81	Tunneling magnetoresistance and quantum oscillations in bilayered $\text{Ca}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2003, 67, .	3.2	40
82	Magnetoelectric Feedback among Magnetic Order, Polarization, and Lattice in Multiferroic BiFeO_3 . Journal of the Physical Society of Japan, 2011, 80, 114714.	1.6	40
83	Superconducting Pairs with Extreme Uniaxial Anisotropy in URu_2Si_3 . Physical Review Letters, 2012, 108, 066407.		
84	Coexistence of Weyl physics and planar defects in the semimetals TaP and TaAs. Physical Review B, 2016, 93, .	3.2	40
85	High-temperature superconductivity on the verge of a structural instability in lanthanum superhydride. Nature Communications, 2021, 12, 6863.	12.8	40
86	Quantum oscillations, colossal magnetoresistance, and the magnetoelastic interaction in bilayered $\text{Ca}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2003, 67, .	3.2	39
87	Effect of controlled disorder on quasiparticle thermal transport in $\text{Bi}_2\text{Sr}_2\text{Ca}_\text{x}\text{Cu}_2\text{O}_8$. Physical Review B, 2001, 63, .	3.2	38
88	Ordered magnetic phases of the frustrated spin-dimer compound $\text{Ba}_3\text{Mn}_2\text{O}_7$. Physical Review B, 2008, 77, .		
89	Anisotropic Cascade of Field-Induced Phase Transitions in the Frustrated Spin-Ladder System $\text{Bi}_2\text{Cu}_3\text{O}_7$. Physical Review Letters, 2012, 109, 167204.		
90	Field-induced density wave in the heavy-fermion compound CeRhIn_5 . Nature Communications, 2015, 6, 6663.	12.8	36

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91	Fermi surface of the Weyl type-II metallic candidate $\text{Na}_0.3\text{CoO}_2$. <i>Physical Review B</i> , 2017, 96, .	3.2	36
92	Two-dimensional Fermi surface for the organic conductor $\text{C}_{10}(\text{BETS})_2\text{FeBr}_4$. <i>Physica B: Condensed Matter</i> , 2001, 298, 557-561.	2.7	33
93	Suppression of the $\text{Ce}^{3+}/\text{Ce}^{4+}$ structural phase transition in $\text{Ce}_0.8\text{La}_{0.1}\text{Th}_{0.1}$ by large magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L77-L83.	1.8	33
94	Fabrication and characterization of ultraviolet photosensors from ZnO nanowires prepared using chemical bath deposition method. <i>Journal of Applied Physics</i> , 2016, 119, 084306.	2.5	33
95	Critical state in a low-dimensional metal induced by strong magnetic fields. <i>Physical Review B</i> , 2000, 62, 14212-14223.	3.2	32
96	Extension of the temperature-magnetic field phase diagram of CeB_6 . <i>Physical Review B</i> , 2004, 69, .	3.2	32
97	Shubnikov-de Haas Oscillations and the Magnetic-Field-Induced Suppression of the Charge Ordered State in $\text{Na}_0.5\text{CoO}_2$. <i>Physical Review Letters</i> , 2005, 94, 236402.	7.8	32
98	Angle-dependent magnetoresistance measurements in $\text{Tl}_2\text{Ba}_2\text{CuO}_6+\delta$ and the need for anisotropic scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	32
99	Local Moment, Itinerancy, and Deviation from Fermi-Liquid Behavior in $\text{Na}_0.7\text{CoO}_2$. <i>Physical Review Letters</i> , 2008, 100, 126405.	7.8	32
100	Magnetism and spin dynamics in room-temperature van der Waals magnet $\text{Fe}_{5-\delta}\text{GeTe}_{2-\delta}$. <i>2D Materials</i> , 2021, 8, 045030.	4.4	32
101	High-Temperature Superconductivity in Hydrides: Experimental Evidence and Details. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 965-977.	1.8	32
102	Evidence of a room-temperature quantum spin Hall edge state in a higher-order topological insulator. <i>Nature Materials</i> , 2022, 21, 1111-1115.	27.5	32
103	Tracking anisotropic scattering in overdoped $\text{Tl}_{2-\delta}\text{Ba}_{2-\delta}\text{CuO}_{6+\delta}$ above 100 K. <i>New Journal of Physics</i> , 2009, 11, 055057.	2.9	31
104	High-field phase-diagram of Fe arsenide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 566-574.	1.2	30
105	Field-induced quadrupolar quantum criticality in PrV_2O_5 . <i>Physical Review B</i> , 2015, 91, .	3.0	30
106	Field-tuned collapse of an orbitally ordered and spin-polarized state: Colossal magnetoresistance in the bilayered ruthenate $\text{Ca}_3\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2004, 69, .	3.2	29
107	Shubnikov-de Haas Effect in the Metallic State of $\text{Na}_0.3\text{CoO}_2$. <i>Physical Review Letters</i> , 2006, 97, 126401.	7.8	29
108	Partial Field-Induced Magnetic Order in the Spin-Liquid Kagomé $\text{Ca}_{2-\delta}\text{Mn}_{\delta}\text{O}_3$. <i>Physical Review Letters</i> , 2007, 99, 236401.	7.8	29

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109	display="inline"><math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Electrons in the Fermi Surface of the Heavy Fermion Superconductor}<math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{YbAlB}_4</mml:math></math>	7.8	29
110	display="block">\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Physical Review Letters}, 2009, 102, 216402. Gate-modulated conductance of few-layer WSe ₂ field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. <i>Applied Physics Letters</i> , 2015, 106, 152104.	3.3	29
111	Magnetic anisotropy of the alkali iridate <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Na}_2</mml:math></math> at high magnetic fields: Evidence for strong ferromagnetic Kitaev correlations. <i>Physical Review B</i> , 2019, 99, .	3.2	28
112	Shubnikovâ€“de Haas effect and Yamaji oscillations in the antiferromagnetically ordered organic superconductor $\text{Pd}(\text{BETS})_2\text{FeBr}_4$: a fermiology study. <i>Solid State Communications</i> , 2000, 116, 557-562.	1.9	27
113	Charge-Density Waves Survive the Pauli Paramagnetic Limit. <i>Physical Review Letters</i> , 2004, 93, 076405. Anomalous metallic state and anisotropic multiband superconductivity in Nb<math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Pd}</mml:math></math>	7.8	27
114	<math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Se}</mml:math></math> Universal ac conduction in large area atomic layers of CVD-grown MoS<math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{MoS}_2</mml:math></math>. <i>Physical Review B</i> , 2014, 89, .	3.2	27
115	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019, 11, 18449-18463.	5.6	27
116	Orbitally driven behaviour: Mott transition, quantum oscillations and colossal magnetoresistance in bilayered Ca ₃ Ru ₂ O ₇ . <i>New Journal of Physics</i> , 2004, 6, 159-159.	2.9	26
117	de Haasâ€“van Alphen effect in MgB ₂ crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 385, 75-84.	1.2	25
118	<i>Surfaces of the Dirac Type-II Semimetallic Candidates</i> <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{M}</mml:math></math> (Where <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10.75 50 33.25d (display		
119	201 Magnetic-field-dependent interplay between incoherent and Fermi liquid transport mechanisms in low-dimensional I_{3} -phase organic conductors. <i>Physical Review B</i> , 2001, 64, .	3.2	24
120	<i>Magnetic polaron-driven magnetoresistance in the pyrochlore</i> <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Lu}_2\text{V}_3\text{O}_9</mml:math></math> Physical Review B, 2008, 77, .	3.2	24
121	Itinerant spin excitations near the hidden order transition in URu₂Si₂. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 192202.	1.8	24
122	Bulk evidence for a time-reversal symmetry broken superconducting state in URu<math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\text{Si}</mml:math></math> Physical Review B, 2013, 88, .	3.2	24
123	Severe Fermi Surface Reconstruction at a Metamagnetic Transition in Ca _{2-x} RuO ₄ (for 0.2 < x < 0.5). <i>Physical Review Letters</i> , 2005, 95, 196407.	7.8	23
124	Chemical Pressure Induced Spin Freezing Phase Transition in Kagome Pr Langasites. <i>Physical Review Letters</i> , 2009, 102, 067203.	7.8	22
125	Irreversible Dynamics of the Phase Boundary in U(Ru _{0.96} Rh _{0.04}) ₂ Si ₂ and Implications for Ordering. <i>Physical Review Letters</i> , 2006, 96, 136403.	7.8	21

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127	Physical Properties of Single-Crystalline CaRuO ₃ Grown by a Floating-Zone Method. Journal of the Physical Society of Japan, 2009, 78, 014701.	1.6	21
128	Manifestation of magnetic quantum fluctuations in the dielectric properties of a multiferroic. Nature Communications, 2014, 5, 4419.	12.8	21
129	Photoconductivity of few-layered <i>p</i> -WSe ₂ phototransistors via multi-terminal measurements. 2D Materials, 2016, 3, 041004.	4.4	21
130	(TMTTF)2Br: The First Organic Superconductor in the (TMTTF)2X family. Advanced Materials, 1994, 6, 762-765.	21.0	20
131	(TM)2X organic superconductors: interplay between 1-D charge localization and higher dimensionality cross-over. Synthetic Metals, 1995, 70, 719-725.	3.9	20
132	Specific heat of geometrically frustrated and multiferroic RMn _{1-x} GaxO ₃ (R=Ho,Y). Physical Review B, 2006, 74, .	3.2	20
133	Possible devil's staircase in the Kondo lattice CeSbSe. Physical Review B, 2017, 96, .	3.2	20
134	Bulk Fermi surface of the Weyl type-II semimetallic candidate NbIrTe4. Physical Review B, 2019, 99, .	3.2	20
135	Anisotropic superconductivity in bulk $\text{Ca}_{x}\text{C}_{6}$. Physical Review B, 2007, 76, .	3.2	19
136	Hall plateaus at magic angles in bismuth beyond the quantum limit. Physical Review B, 2009, 79, .	3.2	19
137	Entropy of the quantum soliton lattice and multiple magnetization steps in $\text{Bi}_{x}\text{Cu}_{6}$. Physical Review B, 2014, 90, .	3.2	19
138	Phase Modulators Based on High Mobility Ambipolar ReSe ₂ Field-Effect Transistors. Scientific Reports, 2018, 8, 12745.	3.3	19
139	de Haas-van Alphen effect investigation of the electronic structure of Al-substituted MgB ₂ . Physical Review B, 2005, 72, .	3.2	18
140	Orbital-dependent metamagnetic response in Sr ₄ Ru ₃ O ₁₀ . Physical Review B, 2007, 75, .	3.2	18
141	The origin of persistent spin dynamics and residual entropy in the stuffed spin ice Ho _{2.3} Ti _{1.7} O ₇ . Journal of Physics Condensed Matter, 2007, 19, 342201.	1.8	18
142	Rearrangement of the antiferromagnetic ordering at high magnetic fields in SmFeAsO and SmFeAsO _{0.9} . Journal of Physics Condensed Matter, 2008, 20, 342202.	1.8	18
143	Optoelectronic Switch Based on Intrinsic Dual Schottky Diodes in Ambipolar MoSe ₂ Field-Effect Transistors. Advanced Electronic Materials, 2015, 1, 1500215.	5.1	18

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145	Optoelectronic Properties of Heterostructures: The Most Recent Developments Based on Graphene and Transition-Metal Dichalcogenides. <i>IEEE Nanotechnology Magazine</i> , 2017, 11, 18-32.	1.3	18
146	Slow quantum oscillations in the semimetallic spin-density-wave state of tetramethyltetraselenafulvalinium nitrate (TMTSF)2NO3. <i>Physical Review B</i> , 1994, 50, 12721-12725.	3.2	17
147	Low-temperature spin dynamics in the kagome system$\text{H}_2\text{Ti}_2\text{O}_5$. <i>Physical Review B</i> , 2010, 81, .	3.2	17
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