

Brad J Ramshaw

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

2,654
citations

24
h-index

51
g-index

61
ext. papers

3,228
ext. citations

13.6
avg, IF

4.62
L-index

#	Paper	IF	Citations
56	Weyl Fermion magneto-electrodynamics and ultralow field quantum limit in TaAs.. <i>Science Advances</i> , 2022 , 8, eabj1076	14.3	0
55	Remarkably Weak Anisotropy in Thermal Conductivity of Two-Dimensional Hybrid Perovskite Butylammonium Lead Iodide Crystals. <i>Nano Letters</i> , 2021 , 21, 3708-3714	11.5	9
54	Quantum oscillations and quasiparticle properties of thin film Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	2
53	Linear-in temperature resistivity from an isotropic Planckian scattering rate. <i>Nature</i> , 2021 , 595, 667-672	50.4	7
52	Superconductivity and quantum criticality linked by the Hall effect in a strange metal. <i>Nature Physics</i> , 2021 , 17, 58-62	16.2	5
51	Scale-invariant magnetic anisotropy in RuCl ₃ at high magnetic fields. <i>Nature Physics</i> , 2021 , 17, 240-244	16.2	8
50	Thermodynamic evidence for a two-component superconducting order parameter in Sr ₂ RuO ₄ . <i>Nature Physics</i> , 2021 , 17, 199-204	16.2	30
49	One-component order parameter in URuSi uncovered by resonant ultrasound spectroscopy and machine learning. <i>Science Advances</i> , 2020 , 6, eaaz4074	14.3	12
48	GaN/AlGaN 2DEGs in the quantum regime: Magneto-transport and photoluminescence to 60 tesla. <i>Applied Physics Letters</i> , 2020 , 117, 262105	3.4	1
47	A proposal for reconciling diverse experiments on the superconducting state in Sr ₂ RuO ₄ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	26
46	Extent of Fermi-surface reconstruction in the high-temperature superconductor HgBaCuO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9782-9786	11.5	1
45	Fermi surface reconstruction by a charge density wave with finite correlation length. <i>Physical Review B</i> , 2019 , 100,	3.3	9
44	Spatial control of heavy-fermion superconductivity in CeIrIn. <i>Science</i> , 2019 , 366, 221-226	33.3	13
43	Thermodynamic Signatures of Weyl Fermions in NbP. <i>Scientific Reports</i> , 2019 , 9, 2095	4.9	8
42	Dirac fermions and possible weak antilocalization in LaCuSb ₂ . <i>APL Materials</i> , 2019 , 7, 121108	5.7	6
41	Role of correlations in determining the Van Hove strain in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	13
40	Pseudogap temperature T* of cuprate superconductors from the Nernst effect. <i>Physical Review B</i> , 2018 , 97,	3.3	60

39	Scale-invariant magnetoresistance in a cuprate superconductor. <i>Science</i> , 2018 , 361, 479-481	33.3	58
38	Quantum limit transport and destruction of the Weyl nodes in TaAs. <i>Nature Communications</i> , 2018 , 9, 2217	17.4	40
37	Magnetoresistance Scaling Reveals Symmetries of the Strongly Correlated Dynamics in BaFe ₂ (As _{1-x} P _x) ₂ . <i>Physical Review Letters</i> , 2018 , 121, 197002	7.4	7
36	Chiral spin order in some purported Kitaev spin-liquid compounds. <i>Physical Review B</i> , 2018 , 98,	3.3	11
35	Resonant torsion magnetometry in anisotropic quantum materials. <i>Nature Communications</i> , 2018 , 9, 3975	17.4	20
34	Reply to Janoschek et al.: The excited $\bar{\Gamma}$ phase of plutonium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E269	11.5	4
33	Anomalous thermal diffusivity in underdoped YBaCuO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5378-5383	11.5	44
32	Robust spin correlations at high magnetic fields in the harmonic honeycomb iridates. <i>Nature Communications</i> , 2017 , 8, 180	17.4	21
31	Magnetic field tuning of an excitonic insulator between the weak and strong coupling regimes in quantum limit graphite. <i>Scientific Reports</i> , 2017 , 7, 1733	4.9	18
30	Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn. <i>Nature</i> , 2017 , 548, 313-317	50.4	51
29	Broken rotational symmetry on the Fermi surface of a high-T _c superconductor. <i>Npj Quantum Materials</i> , 2017 , 2,	5	7
28	Thermodynamic constraints on the amplitude of quantum oscillations. <i>Physical Review B</i> , 2017 , 95,	3.3	2
27	Hall number across a van Hove singularity. <i>Physical Review B</i> , 2017 , 96,	3.3	14
26	Shubnikov-de Haas quantum oscillations reveal a reconstructed Fermi surface near optimal doping in a thin film of the cuprate superconductor Pr _{1.86} Ce _{0.14} CuO ₄ . <i>Physical Review B</i> , 2016 , 94,	3.3	14
25	Wiedemann-Franz law in the underdoped cuprate superconductor YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2016 , 93,	3.3	22
24	Quantum oscillations in a bilayer with broken mirror symmetry: A minimal model for YBa ₂ Cu ₃ O ₆ + δ . <i>Physical Review B</i> , 2016 , 93,	3.3	15
23	Magnetic torque anomaly in the quantum limit of Weyl semimetals. <i>Nature Communications</i> , 2016 , 7, 12492	17.4	43
22	Single reconstructed Fermi surface pocket in an underdoped single-layer cuprate superconductor. <i>Nature Communications</i> , 2016 , 7, 12244	17.4	38

21	Origin of the multiple configurations that drive the response of $E_{\text{plutonium}}$ elastic moduli to temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11158-11161	11.5	23
20	Fragile charge order in the nonsuperconducting ground state of the underdoped high-temperature superconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9568-72	11.5	11
19	Avoided valence transition in a plutonium superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3285-9	11.5	27
18	Superconductivity. Quasiparticle mass enhancement approaching optimal doping in a high-T(c) superconductor. <i>Science</i> , 2015 , 348, 317-20	33.3	128
17	Disorder-induced power-law response of a superconducting vortex on a plane. <i>Physical Review B</i> , 2015 , 92,	3.3	9
16	Magnetization of underdoped YBa ₂ Cu ₃ O _y above the irreversibility field. <i>Physical Review B</i> , 2015 , 92,	3.3	10
15	Nodal bilayer-splitting controlled by spin-orbit interactions in underdoped high-T _c cuprates. <i>Scientific Reports</i> , 2015 , 5, 10914	4.9	18
14	Evidence for a small hole pocket in the Fermi surface of underdoped YBa ₂ Cu ₃ O _y . <i>Nature Communications</i> , 2015 , 6, 6034	17.4	52
13	Direct measurement of the upper critical field in cuprate superconductors. <i>Nature Communications</i> , 2014 , 5, 3280	17.4	136
12	Bounding the pseudogap with a line of phase transitions in YBa ₂ Cu ₃ O _{6+δ} . <i>Nature</i> , 2013 , 498, 75-7	50.4	140
11	Vortex lattice melting and H _{c2} in underdoped YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2012 , 86,	3.3	42
10	Coherent c-axis transport in the underdoped cuprate superconductor YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2012 , 85,	3.3	17
9	Fermi-surface reconstruction by stripe order in cuprate superconductors. <i>Nature Communications</i> , 2011 , 2, 432	17.4	138
8	Angle dependence of quantum oscillations in YBa ₂ Cu ₃ O _{6.59} shows free-spin behaviour of quasiparticles. <i>Nature Physics</i> , 2011 , 7, 234-238	16.2	66
7	Quantum oscillations and the Fermi surface of high-temperature cuprate superconductors. <i>Comptes Rendus Physique</i> , 2011 , 12, 446-460	1.4	34
6	Lifshitz critical point in the cuprate superconductor YBa ₂ Cu ₃ O _y from high-field Hall effect measurements. <i>Physical Review B</i> , 2011 , 83,	3.3	167
5	Nernst effect in the cuprate superconductor YBa ₂ Cu ₃ O _y : Broken rotational and translational symmetries. <i>Physical Review B</i> , 2011 , 84,	3.3	25
4	Broken rotational symmetry in the pseudogap phase of a high-T(c) superconductor. <i>Nature</i> , 2010 , 463, 519-22	50.4	424

- 3 Nernst and Seebeck coefficients of the cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$: a study of Fermi surface reconstruction. *Physical Review Letters*, **2010**, 104, 057005 7.4 114
- 2 Precision microwave electrodynamic measurements of K- and Co-doped BaFe_2As_2 . *Physical Review B*, **2010**, 82, 3.3 25
- 1 Electron pockets in the Fermi surface of hole-doped high- T_c superconductors. *Nature*, **2007**, 450, 533-6 50.4 408