

# Brad J Ramshaw

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,522  
citations

172386

29  
h-index

133188

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broken rotational symmetry in the pseudogap phase of a high-T <sub>c</sub> superconductor. <i>Nature</i> , 2010, 463, 519-522.	13.7	487
2	Electron pockets in the Fermi surface of hole-doped high-T <sub>c</sub> superconductors. <i>Nature</i> , 2007, 450, 533-536.	13.7	443
3	Upper critical point in the cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6-x}$ from high-field Hall effect measurements. <i>Physical Review B</i> , 2011, 83, .	11.1	189
4	Direct measurement of the upper critical field in cuprate superconductors. <i>Nature Communications</i> , 2014, 5, 3280.	5.8	171
5	Bounding the pseudogap with a line of phase transitions in $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$ . <i>Nature</i> , 2013, 498, 75-77.	13.7	159
6	Quasiparticle mass enhancement approaching optimal doping in a high-T <sub>c</sub> superconductor. <i>Science</i> , 2015, 348, 317-320.	6.0	159
7	Fermi-surface reconstruction by stripe order in cuprate superconductors. <i>Nature Communications</i> , 2011, 2, 432.	5.8	149
8	Nernst and Seebeck Coefficients of the Cuprate Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6-x}$ : A Study of Fermi Surface Reconstruction. <i>Physical Review Letters</i> , 2010, 104, 057005.	6.0	100
9	Scale-invariant magnetoresistance in a cuprate superconductor. <i>Science</i> , 2018, 361, 479-481.	6.0	100
10	Thermodynamic evidence for a two-component superconducting order parameter in $\text{Sr}_2\text{RuO}_4$ . <i>Nature Physics</i> , 2021, 17, 199-204.	6.5	98
11	Electronic in-plane symmetry breaking at field-tuned quantum criticality in $\text{CeRhIn}_5$ . <i>Nature</i> , 2017, 548, 313-317.	13.7	89
12	Pseudogap temperature $T^*$ of cuprate superconductors from the Nernst effect. <i>Physical Review B</i> , 2018, 97, .	11.1	99
13	A proposal for reconciling diverse experiments on the superconducting state in $\text{Sr}_2\text{RuO}_4$ . <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	88
14	Quantum limit transport and destruction of the Weyl nodes in TaAs. <i>Nature Communications</i> , 2018, 9, 2217.	5.8	71
15	Angle dependence of quantum oscillations in $\text{YBa}_2\text{Cu}_3\text{O}_{6.59}$ shows free-spin behaviour of quasiparticles. <i>Nature Physics</i> , 2011, 7, 234-238.	6.5	69
16	Anomalous thermal diffusivity in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5378-5383.	3.3	67
17	Evidence for a small hole pocket in the Fermi surface of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$ . <i>Nature Communications</i> , 2015, 6, 6034.	5.8	60
18	Linear-in temperature resistivity from an isotropic Planckian scattering rate. <i>Nature</i> , 2021, 595, 667-672.	13.7	55

#	ARTICLE	IF	CITATIONS
19	Magnetic torque anomaly in the quantum limit of Weyl semimetals. Nature Communications, 2016, 7, 12492.	5.8	54
20	Vortex lattice melting and underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Nature Communications, 2016, 7, 12244.	1.1	46
21	Single reconstructed Fermi surface pocket in an underdoped single-layer cuprate superconductor. Nature Communications, 2016, 7, 12244.	5.8	46
22	Avoided valence transition in a plutonium superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3285-3289.	3.3	39
23	Quantum oscillations and the Fermi surface of high-temperature cuprate superconductors. Comptes Rendus Physique, 2011, 12, 446-460.	0.3	37
24	Spatial control of heavy-fermion superconductivity in CeIrIn <sub>5</sub> . Science, 2019, 366, 221-226.	6.0	37
25	Role of correlations in determining the Van Hove strain in Sr <sub>2</sub> RuO <sub>4</sub> . Physical Review B, 2019, 100, 080501.	1.1	36
26	One-component order parameter in URu <sub>2</sub> Si <sub>2</sub> uncovered by resonant ultrasound spectroscopy and machine learning. Science Advances, 2020, 6, eaaz4074.	4.7	33
27	Resonant torsion magnetometry in anisotropic quantum materials. Nature Communications, 2018, 9, 3975.	1.1	30
28	Resonant torsion magnetometry in anisotropic quantum materials. Nature Communications, 2018, 9, 3975.	5.8	30
29	Wiedemann-Franz law in the underdoped cuprate superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review B, 2016, 93, 080501.	1.1	29
30	Robust spin correlations at high magnetic fields in the harmonic honeycomb iridates. Nature Communications, 2017, 8, 180.	5.8	28
31	Precision microwave electrodynamic measurements of K- and Co-doped BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2010, 82, 020501.	1.1	27
32	Origin of the multiple configurations that drive the response of $\hat{\Gamma}$ -plutonium's elastic moduli to temperature. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11158-11161.	3.3	27
33	Remarkably Weak Anisotropy in Thermal Conductivity of Two-Dimensional Hybrid Perovskite Butylammonium Lead Iodide Crystals. Nano Letters, 2021, 21, 3708-3714.	4.5	26
34	Scale-invariant magnetic anisotropy in RuCl <sub>3</sub> at high magnetic fields. Nature Physics, 2021, 17, 240-244.	6.5	25
35	Nodal bilayer-splitting controlled by spin-orbit interactions in underdoped high-T <sub>c</sub> cuprates. Scientific Reports, 2015, 5, 10914.	1.6	21
36	Magnetic field tuning of an excitonic insulator between the weak and strong coupling regimes in quantum limit graphite. Scientific Reports, 2017, 7, 1733.	1.6	20

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37	Hall number across a van Hove singularity. Physical Review B, 2017, 96, .	1.1	20
38	Fermi surface transformation at the pseudogap critical point of a cuprate superconductor. Nature Physics, 2022, 18, 558-564.	6.5	20
39	Quantum oscillations in a bilayer with broken mirror symmetry: A minimal model for YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+δ</sub> . Physical Review B, 2016, 93, .	1.1	18
40	Elastocaloric determination of the phase diagram of Sr <sub>2</sub> RuO <sub>4</sub> . Nature, 2022, 607, 276-280.	13.7	18
41	Coherent c-axis transport in the underdoped cuprate superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . Physical Review B, 2012, 85, .	1.1	17
42	Shubnikov-de Haas quantum oscillations reveal a reconstructed Fermi surface near optimal doping in a thin film of the cuprate superconductor Pr <sub>1.86</sub> Ce <sub>0.14</sub> CuO <sub>4±δ</sub> . Physical Review B, 2016, 94, .	1.1	16
43	Dirac fermions and possible weak antilocalization in LaCuSb <sub>2</sub> . APL Materials, 2019, 7, .	2.2	16
44	Magnetoresistance Scaling Reveals Symmetries of the Strongly Correlated Dynamics in $\text{BaFe}_2$		

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55	Reply to Janoschek et al.: The excited $\hat{\Gamma}$ -phase of plutonium. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E269.	3.3	5
56	Thermodynamic constraints on the amplitude of quantum oscillations. Physical Review B, 2017, 95, .	1.1	4
57	Quantum oscillations and quasiparticle properties of thin film $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \rangle$ Physical Review B, 2021, 104, .		
58	Weyl Fermion magneto-electrodynamics and ultralow field quantum limit in TaAs. Science Advances, 2022, 8, eabj1076.	4.7	4
59	GaN/AlGaN 2DEGs in the quantum regime: Magneto-transport and photoluminescence to 60 tesla. Applied Physics Letters, 2020, 117, 262105.	1.5	1
60	Elastic properties of hidden order in URu2Si2 are reproduced by a staggered nematic. Physical Review B, 2020, 102, .	1.1	0