Joe Thompson

List of Publications by Year in descending order

41 papers	3,812 citations	304743 22 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	3173 citing authors

#	Article	IF	Citations
1	Effects of external pressure on the narrow-gap semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ce</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	1
2	Colossal piezoresistance in narrow-gap <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 106, .	3.2	2
3	Colossal anomalous Nernst effect in a correlated noncentrosymmetric kagome ferromagnet. Science Advances, 2021, 7, .	10.3	61
4	Electron-beam floating-zone refined UCoGe. Physical Review Materials, 2021, 5, .	2.4	1
5	Fingerprinting triangular-lattice antiferromagnet by excitation gaps. Physical Review B, 2021, 103, .	3.2	4
6	Spatially inhomogeneous superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 104, .	3.2	31
7	Evidence for a pressure-induced antiferromagnetic quantum critical point in intermediate-valence UTe ₂. Science Advances, 2020, 6, .	10.3	69
8	Pressure dependence of antiferromagnetic and superconducting phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">U</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">R</mml:mi><mml:msub><mml:mi mathvariant="normal">h</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">	3.2	0
9	Anomalous Hall effect in the kagome ferrimagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GdMn</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	46
10	Nematic State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CeAuSb</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review X, 2020, 10, .	8.0	19
11	Comparing the anomalous Hall effect and the magneto-optical Kerr effect through antiferromagnetic phase transitions in Mn3Sn. Applied Physics Letters, 2019, 114, .	3.3	29
12	Anomalous connection between antiferromagnetic and superconducting phases in the pressurized noncentrosymmetric heavy-fermion compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CeRhG</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	6
13	Enhanced Hybridization Sets the Stage for Electronic Nematicity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CeRhIn</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 122, 016402.	7.8	19
14	Superconductivity in pressurized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CeRhG</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and related noncentrosymmetric compounds. Physical Review B, 2018, 97, .	3.2	18
15	Low temperature magnetic structure of CeRhIn₅by neutron diffraction on absorption-optimized samples. Journal of Physics Condensed Matter, 2017, 29, 17LT01.	1.8	15
16	SCES2016 Summary: experiment. Philosophical Magazine, 2017, 97, 3517-3526.	1.6	0
17	An FBG Optical Approach to Thermal Expansion Measurements under Hydrostatic Pressure. Sensors, 2017, 17, 2543.	3.8	9
18	Magnetic microstructure and magnetic properties of uniaxial itinerant ferromagnet Fe3GeTe2. Journal of Applied Physics, 2016, 120, .	2.5	87

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19	Electronic correlation and magnetism in the ferromagnetic metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>Physical Review B, 2016, 93, .	3.2	119
20	Magnetism and superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">U</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Pt</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Rh</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B,	3.2	7
21	Detection of a Spin-Triplet Superconducting Phase in Oriented PolycrystallineU2PtC2Samples UsingPt195Nuclear Magnetic Resonance. Physical Review Letters, 2015, 114, 127001.	7.8	4
22	Pressure-tuned quantum criticality in the antiferromagnetic Kondo semimetal CeNi _{2â^’ Î´} As ₂. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13520-13524.	7.1	34
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>LDA</mml:mi><mml:mo mathvariant="bold">+</mml:mo><mml:mi>DMFT</mml:mi></mml:mrow></mml:math>Approach to Magnetocrystalline Anisotropy of Strong Magnets. Physical Review X, 2014, 4, .	8.9	19
24	Suppression of antiferromagnetism by pressure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>CaCo</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mtext>P</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	12
25	Persistent optically induced magnetism in oxygen-deficient strontium titanate. Nature Materials, 2014, 13, 481-487.	27.5	100
26	Two-channel point-contact tunneling theory of superconductors. Physical Review B, 2014, 90, .	3.2	13
27	Textured Superconducting Phase in the Heavy Fermion<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeRhIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 108, 077003.	7.8	38
28	Pressure effects on the heavy-fermion antiferromagnet CeAuSb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn mathvariant="bold">2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	31
29	Computationally driven experimental discovery of the CeIr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>In compound. Physical Review B, 2011, 83, .	3.2	12
30	Electronic inhomogeneity in a Kondo lattice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6857-6861.	7.1	39
31	Holes in a Kondo lattice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18191-18192.	7.1	6
32	Local structure and site occupancy of Cd and Hg substitutions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ce</mml:mtext><mml:mi>T</mml:mi><mml:msub><mml:mrow><mml:mtext>In</mml:mtext>	3.2	27
33	Magnetism and superconductivity in strongly correlated CeRhIn₅. New Journal of Physics, 2009, 11, 055062.	2.9	38
34	Coupled Superconducting and Magnetic Order in CeCoIn ₅. Science, 2008, 321, 1652-1654.	12.6	299
35	Hidden magnetism and quantum criticality in the heavy fermion superconductor CeRhIn5. Nature, 2006, 440, 65-68.	27.8	412
36	Evolution of the magnetic properties and magnetic structures along the RmMIn3m+2 (R=Ce, Nd, Gd, Tb;) Tj ETQq0 0 0 rgBT /Overlock 1	2.5	53

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37	Magnetic phase diagram of the ferromagnetic Kondo-lattice compoundCeAgSb2up to 80 kbar. Physical Review B, 2003, 67, .	3.2	85
38	Heavy-fermion superconductivity in CeCoIn5at 2.3 K. Journal of Physics Condensed Matter, 2001, 13, L337-L342.	1.8	737
39	Pressure-Induced Superconductivity in Quasi-2DCeRhIn5. Physical Review Letters, 2000, 84, 4986-4989.	7.8	836
40	Heavy-Electron Metals: New Highly Correlated States of Matter. Science, 1988, 239, 33-42.	12.6	329
41	Lowâ€temperature pressure variations in a selfâ€clamping pressure cell. Review of Scientific Instruments, 1984, 55, 231-234.	1.3	148