

Scott Hannahs

List of Publications by Year in descending order

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67
papers

3,535
citations

236925

25
h-index

128289

60
g-index

67
all docs

67
docs citations

67
times ranked

3062
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of temperature and doping dependence of elastoresistivity near a putative nematic quantum critical point. Nature Communications, 2022, 13, 1011.	12.8	3
2	Magnetoquantum oscillations in the specific heat of a topological Kondo insulator. Journal of Physics Condensed Matter, 2022, 34, 36LT01.	1.8	2
3	Evolution of magnetic field induced ordering in the layered quantum Heisenberg triangular-lattice antiferromagnet Ba ₃ CoSb ₂ O ₉ . Physical Review B, 2021, 103, .	3.2	11
4	Commissioning of the 36 T Series-Connected Hybrid Magnet at the NHMFL. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	11
5	Magnetic-field-induced 1st order transition to FFLO state at paramagnetic limit in 2D superconductors. Journal of Physics: Conference Series, 2018, 969, 012072.	0.4	3
6	Calorimetric Measurements of Magnetic-Field-Induced Inhomogeneous Superconductivity Above the Paramagnetic Limit. Physical Review Letters, 2017, 118, 267001.	7.8	46
7	The 36-T Series-Connected Hybrid Magnet System Design and Integration. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	11
8	Progress in the Development and Construction of a 32-T Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	167
9	Upgrade of the NHMFL Cryogenic System and the Index Heating Test Results on the 45-T Hybrid. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	3
10	Impact of Trapped Helium Gas Bubble in Liquid Helium on the Cooling in High Magnetic Field. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	10
11	Calorimetric determination of the angular dependent phase diagram of an S=1/2 Heisenberg triangular-lattice antiferromagnet. Journal of Physics: Conference Series, 2014, 568, 042010.	0.4	2
12	Helium gas bubble trapped in liquid helium in high magnetic field. Applied Physics Letters, 2014, 104, .	3.3	14
13	Magnetic-field-induced Heisenberg to XY crossover in a quasi-2D quantum antiferromagnet. Journal of Physics: Conference Series, 2014, 568, 042004.	0.4	7
14	Top-loading small-sample calorimeters for measurements as a function of magnetic field angle. Journal of Physics: Conference Series, 2014, 568, 032008.	0.4	5
15	The cryogenic system for the SCH and the 45 T hybrid at the NHMFL. , 2012, , .		1
16	Magnetic-Field Induced Quantum Phase Transitions in Triangular-Lattice Antiferromagnets. Journal of Physics: Conference Series, 2011, 302, 012003.	0.4	8
17	Multiple regions of quantum criticality in YbAgGe. Physical Review B, 2011, 83, .	3.2	33
18	Field-induced quantum phase transitions in the spin-1/2 triangular-lattice antiferromagnet Cs ₂ CuBr ₄ . Journal of Physics: Conference Series, 2010, 200, 022008.	0.4	0

#	ARTICLE	IF	CITATIONS
19	The National High Magnetic Field Laboratory. Journal of Low Temperature Physics, 2010, 159, 366-369.	1.4	6
20	Temperature versus doping phase diagrams for BaBiO_3 . Physical Review B, 2010, 82, .	3.2	185
21	Thermal expansion and magnetostriction of a nearly saturated $^3\text{He}-^4\text{He}$ mixture. Philosophical Magazine, 2009, 89, 2071-2078.	1.6	0
22	Nonlinear transport in semiconducting polymers at high carrier densities. Nature Materials, 2009, 8, 572-575.	27.5	103
23	Cascade of Magnetic-Field-Induced Quantum Phase Transitions in a Spin- $\frac{1}{2}$ Triangular Lattice Antiferromagnet. Physical Review Letters. 2009, 102, 257201.	7.8	119
24	Effect of pressure on transport and magnetotransport properties in CaFe_2As_2 crystals. Physical Review B, 2009, 80, .	3.2	46
25	Magnetostriction and thermal expansion on 1D quantum spin system azurite. Journal of Physics: Conference Series, 2009, 150, 042030.	0.4	5
26	Quasi one-dimensional transport in doped PBTTT and PBTTT thin film transistors. , 2009, , .		0
27	Effects of Co substitution on thermodynamic and transport properties and anisotropic Hc_2 .		

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37	Magnetotransport and superconductivity of $\hat{\nu}$ -uranium. Philosophical Magazine, 2004, 84, 2001-2022.	1.6	12
38	Systematic Effects of Carbon Doping on the Superconducting Properties of $\text{Mg}(\text{B}_{1-x}\text{C}_x)_2$. Physical Review Letters, 2004, 92, 217003.	7.8	331
39	Magnetic enhancement of superconductivity. Nature, 2004, 427, 802-802.	27.8	6
40	Heat capacity cell for angular measurements in high magnetic fields. Physica B: Condensed Matter, 2003, 329-333, 1586-1587.	2.7	8
41	Magnetic enhancement of superconductivity from electron spin domains. Nature, 2003, 425, 51-55.	27.8	393
42	Vertical confinement and evolution of reentrant insulating transition in the fractional quantum Hall regime. Physical Review B, 2003, 68, .	3.2	9
43	RECENT ADVANCES IN LOW TEMPERATURE THERMOMETRY IN HIGH MAGNETIC FIELDS. International Journal of Modern Physics B, 2002, 16, 3389-3389.	2.0	0
44	Magnetoresistance of insulating amorphous $\text{Ni}_x\text{Si}_{1-x}$ films exhibiting Mott variable-range hopping laws. Physical Review B, 2001, 63, .	3.2	46
45	Magnetoresistance of an insulating quasicrystalline AlPdRe film in large magnetic fields. Journal of Physics Condensed Matter, 2001, 13, 3169-3185.	1.8	7
46	The metal-insulator transition in icosahedral AlPdRe thin films. Journal of Physics Condensed Matter, 2000, 12, 9735-9749.	1.8	15
47	Quantum galvanomagnetic effects in the organic metal $\hat{\nu}$ -(BEDT-TTF) $_2$ IHg(SCN) $_4$. Physical Review B, 1997, 55, R16005-R16008.	3.2	14
48	Thermodynamics in the high-field phases of $(\text{TMTSF})_2\text{ClO}_4$. Physical Review B, 1997, 56, 7804-7807.	3.2	10
49	Evidence for a spin transition in the $\hat{\nu}=25$ fractional quantum Hall effect. Physical Review B, 1997, 56, R12776-R12779.	3.2	28
50	Critical imperfect nesting in $(\text{TMTSF})_2\text{PF}_6$. Physical Review B, 1996, 53, 2727-2731.	3.2	29
51	Competing Instabilities and the High Field Phases of $(\text{TMTSF})_2\text{ClO}_4$. Physical Review Letters, 1995, 75, 1630-1633.	7.8	81
52	Toward a unified phase diagram in $(\text{TMTSF})_2\text{X}$. Physical Review Letters, 1993, 70, 3091-3094.	7.8	103
53	Observation of magnetic-field-induced delocalization: Transition from Anderson insulator to quantum Hall conductor. Physical Review Letters, 1993, 71, 1439-1442.	7.8	158
54	Lebedev's magic angle effects in $(\text{TMTSF})_2\text{PF}_6$. Physical Review Letters, 1992, 69, 2827-2830.	7.8	89

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55	Magnetothermopower study of (TMTSF) ₂ PF ₆ (where TMTSF is tetramethyltetraselenafulvalene). Physical Review B, 1992, 45, 13566-13571.	3.2	7
56	Fermi Surface Study of Organic Metals (BEDT-TTF) ₂ X. Materials Research Society Symposia Proceedings, 1992, 247, 515.	0.1	0
57	Pinning in twin boundaries of YBa ₂ Cu ₃ O _{7-δ} single crystals. Superconductor Science and Technology, 1991, 4, S106-S108.	3.5	13
58	Tunneling and hopping conduction in Langmuir-Blodgett thin films of poly(3-hexylthiophene). Physical Review B, 1991, 43, 9076-9086.	3.2	40
59	Direct Observation of Spin-Splitting of the Shubnikov-de Haas Oscillations in a Quasi-Two-Dimensional Organic Conductor (BEDT-TTF) ₂ KHg(SCN) ₄ . Journal of the Physical Society of Japan, 1990, 59, 2324-2327.	1.6	45
60	Two-dimensional ion-plasma resonances under the surface of liquid helium. Physical Review B, 1990, 42, 7901-7913.	3.2	6
61	Superconductivity and magnetic-field-induced spin-density waves. Physical Review Letters, 1990, 65, 2812-2815.	7.8	24
62	Fermi Surface Study of Organic Superconductors (BEDT-TTF) ₂ X: A Wonderland of Two-Dimensional Molecular Metals. , 1990, , 167-190.		3
63	Quantum Hall effect in a bulk crystal. Physical Review Letters, 1989, 63, 1988-1991.	7.8	181
64	Quantum Hall Effect and Rapid Oscillations in (TMTSF) ₂ PF ₆ under Pressure. Materials Research Society Symposia Proceedings, 1989, 173, 251.	0.1	1
65	Angular Dependence of the Magnetoresistance in (TMTSF) ₂ C ₁₀ H ₈ . Materials Research Society Symposia Proceedings, 1989, 173, 257.	0.1	11
66	Plasma Wave Resonances in Positive Ions Under the Surface of Liquid Helium. Japanese Journal of Applied Physics, 1987, 26, 741.	1.5	18
67	Nonlinear Properties of Plasma Wave Resonances in Ions under the Helium Surface. Japanese Journal of Applied Physics, 1987, 26, 753.	1.5	1