Andreas Rydh

List of Publications by Year
in descending order

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		361388	330122
74	1,431	20	37
papers	citations	h-index	g-index

74	74	74	1612
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superconducting YAu₃Si and Antiferromagnetic GdAu₃Si with an Interpenetrating Framework Structure Built from 16-Atom Polyhedra. Inorganic Chemistry, 2022, 61, 4322-4334.	4.0	1
2	Superconducting properties of the spin Hall candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> with eightfold degeneracy. Physical Review B, 2022, 105, .	3.2	5
3	Magnetoquantum oscillations in the specific heat of a topological Kondo insulator. Journal of Physics Condensed Matter, 2022, 34, 36LT01.	1.8	2
4	Superconductivity at 1ÂK in Y-Au-Si quasicrystal approximants. Physical Review B, 2021, 103, .	3.2	5
5	State with spontaneously broken time-reversal symmetry above the superconducting phase transition. Nature Physics, 2021, 17, 1254-1259.	16.7	41
6	Singular magnetic dilution behavior in a quasicrystal approximant. Physical Review B, 2021, 104, .	3.2	3
7	Phase transition preceding magnetic long-range order in the double perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	3.2	11
8	Unusual Interplay between Superconductivity and Field-Induced Charge Order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>YBa</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mi>y</mml:mi></mml:m. Physical Review Letters, 2018, 121, 167002.	7.8	32
9	Anisotropic superconductivity and magnetism in single-crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>RbEuFe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	3.2	36
10	Raising the superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math> of gallium: In situ characterization of the transformation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Ga into <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -Ga. P	3.2	17
11	Nanocalorimeter platform for in situ specific heat measurements and x-ray diffraction at low temperature. Review of Scientific Instruments, 2017, 88, 125108.	1.3	18
12	Microscopic parameters from high-resolution specific heat measurements on superoptimally substituted<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2016, 93, .	3.2	16
13	Superconducting gap evolution in overdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> crystals through nanocalo. Physical Review B, 2015, 91, .	3.2	6
14	Rayleigh instability of confined vortex droplets in critical superconductors. Nature Physics, 2015, 11, 21-25.	16.7	22
15	Thermodynamics around the first-order ferromagnetic phase transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mtext>P</mml:mtext></mml:math>single crystals. Physical Review B, 2014, 90, .	3.2	12
16	Strong polaritonic interaction between flux-flow and phonon resonances in Bi2Sr2CaCu2O8+x intrinsic Josephson junctions: Angular dependence and the alignment procedure. Physica C: Superconductivity and Its Applications, 2013, 491, 51-55.	1.2	4
17	Evidence for Nonlocal Electrodynamics in Planar Josephson Junctions. Physical Review Letters, 2013, 111, 117002.	7.8	33
18	Anti-ordinary Hall effect near the ferromagnetic quantum phase transition in NixPt1â^'xthin films. Physical Review B, 2013, 87, .	3.2	8

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19	Isotope anomaly in YBa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>	3.2	24
20	Signatures of the electronic nature of pairing in high-Tc superconductors obtained by non-equilibrium boson spectroscopy. Nature Communications, 2013, 4, 2970.	12.8	18
21	Differential membrane-based nanocalorimeter for high-resolution measurements of low-temperature specific heat. Review of Scientific Instruments, 2012, 83, 055107.	1.3	43
22	Publisher's Note: Persistent electrical doping of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CaCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>	3.2	1
23	Doping dependence of the specific heat of single crystal BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	12
24			

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37	Superluminal geometrical resonances observed inBi2Sr2CaCu2O8+xintrinsic Josephson junctions. Physical Review B, 2010, 82, .	3.2	32
38	Detection of the Phase Shift from a Single Abrikosov Vortex. Physical Review Letters, 2010, 104, 227003.	7.8	50
39	Field- and current controlled switching between vortex states in a mesoscopic superconductor. Journal of Physics: Conference Series, 2009, 153, 012027.	0.4	2
40	Membrane-based calorimetry for studies of sub-microgram samples. Journal of Physics: Conference Series, 2009, 150, 052256.	0.4	9
41	Doping-Induced Change in the Interlayer Transport Mechanism of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math> and the Superconducting Transition Temperature. Physical Review Letters, 2008, 101, 087003.	7.8	28
42	Emerging Measurement Techniques For Studies Of Mesoscopic Superconductors. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 117-126.	0.3	0
43	Magnetization of a few-fluxoid lead crystal. Physica C: Superconductivity and Its Applications, 2007, 460-462, 793-794.	1.2	1
44	Anisotropic superconducting phase diagram of C6Ca. Physica C: Superconductivity and Its Applications, 2006, 439, 43-46.	1.2	9
45	New transition in the vortex liquid state of YBa2Cu3O7â˜Î´. Physica C: Superconductivity and Its Applications, 2006, 437-438, 176-179.	1.2	2
46	Spectroscopy of surface plasmons in metal films with nanostructures. Applied Physics Letters, 2006, 88, 173112.	3.3	5
47	Calorimetry of Sub-microgram Grains. , 2006, , 1-5.		2
48	Fabrication of Palladium Nanotubes and Their Application in Hydrogen Sensing. Chemistry of Materials, 2005, 17, 3445-3450.	6.7	132
49	Two-band effects in the angular dependence ofHc2ofMgB2single crystals. Physical Review B, 2004, 70, .	3.2	44
50	Publisher's Note: Two-band effects in the angular dependence ofHc2ofMgB2single crystals [Phys. Rev. B70, 132503 (2004)]. Physical Review B, 2004, 70, .	3.2	1
51	Commensurate vortex pinning in Nb films patterned onto anodized aluminum oxide. Physica C: Superconductivity and Its Applications, 2004, 412-414, 347-351.	1.2	8
52	Surface plasmons at single nanoholes in Au films. Applied Physics Letters, 2004, 85, 467-469.	3.3	250
53	Magneto-Optical Imaging of Josephson Vortices in Layered Superconductors. , 2004, , 39-46.		2
54	Resistivity Studies by Multiterminal Transport Measurements on Single Crystal YBa2Cu3O7â˜Î´. Journal of Low Temperature Physics, 2003, 131, 1009-1018.	1.4	0

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55	Phase Diagram of Single Crystal MgB2. Journal of Low Temperature Physics, 2003, 131, 1237-1244.	1.4	1
56	Superconducting phase diagram of single-crystal MgB2. Physica C: Superconductivity and Its Applications, 2003, 385, 154-161.	1.2	34
57	Vortex liquid and solid correlation in untwinned YBa2Cu3O7â^'Î´. Physica C: Superconductivity and Its Applications, 2003, 388-389, 727-728.	1.2	0
58	Superconducting phase diagram of single crystal MgB2. Physica C: Superconductivity and Its Applications, 2003, 387, 137-142.	1.2	4
59	Superconducting transition and phase diagram of single-crystalMgB2. Physical Review B, 2003, 67, .	3.2	86
60	Surface contribution to the superconducting properties ofMgB2single crystals. Physical Review B, 2003, 68, .	3.2	41
61	Rydh and Rapp Reply:. Physical Review Letters, 2002, 88, .	7.8	1
62	Scaling of the vortex-liquid resistivity in optimally doped and oxygen-deficientYBa2Cu3O7â^'Î´single crystals. Physical Review B, 2001, 63, .	3.2	53
63	In-plane anisotropy and possible chain contribution to magnetoconductivity inYBa2Cu3O7â^'Î´. Physical Review B, 2001, 63, .	3.2	4
64	Strong Vortex Liquid Correlation from Multiterminal Measurements on UntwinnedYBa2Cu3O7â^'Î´Single Crystals. Physical Review Letters, 2001, 86, 1873-1876.	7.8	9
65	Multiterminal transport measurements: In-plane anisotropy and vortex liquid correlation inYBa2Cu3O7â^'Î´. Physical Review B, 2001, 64, .	3.2	2
66	Magnetic field scaling of the vortex glass resistivity in oxygen deficient YBa2Cu3O7â^'Î´ single crystals. Physica B: Condensed Matter, 2000, 284-288, 707-708.	2.7	5
67	Multiterminal measurements of vortex correlations in the (K,Ba)BiO3 system. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1233-1234.	1.2	0
68	Vortex liquid resistivity in disordered YBa2Cu3O7â^'Î´ single crystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1239-1240.	1.2	7
69	Vortex liquid properties in optimally doped and oxygen-deficient YBa2Cu3O7â^'Î´ single crystals. Physica C: Superconductivity and Its Applications, 2000, 332, 86-92.	1.2	2
70	Thermally Assisted Flux Creep of a Driven Vortex Lattice in Untwinned YBa2Cu3O7â^'Î´ Single Crystals. Journal of Low Temperature Physics, 1999, 117, 1335-1339.	1.4	1
71	Consistent Description of the Vortex Glass Resistivity in High-TcSuperconductors. Physical Review Letters, 1999, 83, 1850-1853.	7.8	48
72	Different Estimates of the Anisotropy from Resistive Measurements in High-T C Superconductors. , 1999, , 289-300.		0

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73	Empirical scaling of the vortex glass line above 1 T for high-Tcsuperconductors of varying anisotropy. Physical Review B, 1998, 57, R14064-R14067.	3.2	18
74	Vortex dynamics in oxygen deficient single crystals of YBa2Cu3O7â˜Î´. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1959-1960.	1.2	1