

Andreas Rydh

List of Publications by Year in descending order

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74
papers

1,431
citations

361388

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37
g-index

74
all docs

74
docs citations

74
times ranked

1612
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface plasmons at single nanoholes in Au films. Applied Physics Letters, 2004, 85, 467-469.	3.3	250
2	Fabrication of Palladium Nanotubes and Their Application in Hydrogen Sensing. Chemistry of Materials, 2005, 17, 3445-3450.	6.7	132
3	Superconducting transition and phase diagram of single-crystal MgB ₂ . Physical Review B, 2003, 67, .	3.2	86
4	Scaling of the vortex-liquid resistivity in optimally doped and oxygen-deficient YBa ₂ Cu ₃ O _{7-δ} single crystals. Physical Review B, 2001, 63, .	3.2	53
5	Detection of the Phase Shift from a Single Abrikosov Vortex. Physical Review Letters, 2010, 104, 227003.	7.8	50
6	Consistent Description of the Vortex Glass Resistivity in High-T _c Superconductors. Physical Review Letters, 1999, 83, 1850-1853.	7.8	48
7	Two-band effects in the angular dependence of H _{c2} of MgB ₂ single crystals. Physical Review B, 2004, 70, .	3.2	44
8	Anisotropic phase diagram and superconducting fluctuations of single-crystalline SmFeAsO $\times \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.85 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle F \langle \text{mml:math} \rangle$ $\times \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.15 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.15 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle$	3.2	43
9	Differential membrane-based nanocalorimeter for high-resolution measurements of low-temperature specific heat. Review of Scientific Instruments, 2012, 83, 055107.	1.3	43
10	Surface contribution to the superconducting properties of MgB ₂ single crystals. Physical Review B, 2003, 68, .	3.2	41
11	State with spontaneously broken time-reversal symmetry above the superconducting phase transition. Nature Physics, 2021, 17, 1254-1259.	16.7	41
12	Doping dependence of the specific heat of single-crystal BaFe $\times \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.85 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle F \langle \text{mml:math} \rangle$ $\times \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.15 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.15 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle$		

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19	<p>is anomaly in YBa₂Cu₃O_{7-x} superconducting phase diagram.</p> <p>Physical Review B, 1998, 57, R14064-R14067.</p>	3.2	24
20	Rayleigh instability of confined vortex droplets in critical superconductors. Nature Physics, 2015, 11, 21-25.	16.7	22
21	Empirical scaling of the vortex glass line above 1 T for high-Tc superconductors of varying anisotropy. Physical Review B, 1998, 57, R14064-R14067.	3.2	18
22	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
23	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
24	Comparative analysis of tunneling magnetoresistance in low-Tc Nb/Al-AlOx/Nb and high-Tc Bi ₂ A ₂ yPb _y Sr ₂ CaCu ₂ O ₈ +I intrinsic Josephson junctions. Physical Review B, 2011, 84, .	3.2	17
25	<p>Pairing the superconducting phase of gallium: In situ characterization of the transformation of Bi₂CaCu₂O₈+I into Bi₂CaCu₂O₈+I₂.</p> <p>Physical Review B, 2011, 83, .</p>	3.2	17
26	Coherent generation of phonon-polaritons in Bi ₂ Sr ₂ CaCu ₂ O ₈ +I intrinsic Josephson junctions. Physical Review B, 2011, 83, .	3.2	16
27	Electron-tunneling measurements of low-Tc single-layer Bi ₂ +xSr ₂ yCuO ₆ +I: Evidence for a scaling disparity between superconducting and pseudogap states. Physical Review B, 2012, 86, .	3.2	16
28	<p>Microscopic parameters from high-resolution specific heat measurements on superoptimally substituted Ba_{1-x}Fe₂As₂.</p> <p>Physical Review B, 2016, 93, .</p>	3.2	16
29	Anomalous Hall effect in NiPt thin films. Journal of Applied Physics, 2011, 110, .	2.5	13
30	<p>Persistent electrical doping of Bi₂Sr₂CaCu₂O₈+I.</p> <p>Physical Review B, 2014, 90, .</p>	3.2	12
31	<p>Thermodynamics around the first-order ferromagnetic phase transition of Bi₂CaCu₂O₈+I crystals.</p> <p>Physical Review B, 2014, 90, .</p>	3.2	12
32	Absolute accuracy in membrane-based ac nanocalorimetry. Thermochemica Acta, 2011, 522, 66-71.	2.7	11
33	Phase transition preceding magnetic long-range order in the double perovskite Ba ₂ Fe ₂ As ₂ . Physical Review B, 2019, 100, .	3.2	12
34	Strong Vortex Liquid Correlation from Multiterminal Measurements on Untwinned YBa ₂ Cu ₃ O ₇ +I Single Crystals. Physical Review Letters, 2001, 86, 1873-1876.	7.8	9
35	Anisotropic superconducting phase diagram of C6Ca. Physica C: Superconductivity and Its Applications, 2006, 439, 43-46.	1.2	9
36	Membrane-based calorimetry for studies of sub-microgram samples. Journal of Physics: Conference Series, 2009, 150, 052256.	0.4	9

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37	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
38	Anti-ordinary Hall effect near the ferromagnetic quantum phase transition in NixPt1- x thin films. Physical Review B, 2013, 87, .	3.2	8
39	Vortex liquid resistivity in disordered YBa ₂ Cu ₃ O _{7-δ} single crystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1239-1240.	1.2	7
40	Superconducting gap evolution in overdoped $\text{BaFe}_{1-x}\text{Co}_x\text{P}_2$ crystals through nanocalo. Physical Review B, 2015, 91, .	3.2	6
41	Magnetic field scaling of the vortex glass resistivity in oxygen deficient YBa ₂ Cu ₃ O _{7-δ} single crystals. Physica B: Condensed Matter, 2000, 284-288, 707-708.	2.7	5
42	Spectroscopy of surface plasmons in metal films with nanostructures. Applied Physics Letters, 2006, 88, 173112.	3.3	5
43	Superconductivity at 1 ÅK in Y-Au-Si quasicrystal approximants. Physical Review B, 2021, 103, .	3.2	5
44	Superconducting properties of the spin Hall candidate $\text{Ta}_{1-x}\text{Nb}_x$ with eightfold degeneracy. Physical Review B, 2022, 105, .	3.2	5
45	In-plane anisotropy and possible chain contribution to magnetoconductivity in YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 2001, 63, .	3.2	4
46	Superconducting phase diagram of single crystal MgB ₂ . Physica C: Superconductivity and Its Applications, 2003, 387, 137-142.	1.2	4
47	Application of nano-scale Josephson junction as phase sensitive detector for analysis of vortex states in mesoscopic superconductors. Physica C: Superconductivity and Its Applications, 2010, 470, 890-892.	1.2	4
48	Photoconductivity effects in mixed-phase BSCCO whiskers. Superconductor Science and Technology, 2012, 25, 105010.	3.5	4
49	Strong polaritonic interaction between flux-flow and phonon resonances in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} intrinsic Josephson junctions: Angular dependence and the alignment procedure. Physica C: Superconductivity and Its Applications, 2013, 491, 51-55.	1.2	4
50	Singular magnetic dilution behavior in a quasicrystal approximant. Physical Review B, 2021, 104, .	3.2	3
51	Vortex liquid properties in optimally doped and oxygen-deficient YBa ₂ Cu ₃ O _{7-δ} single crystals. Physica C: Superconductivity and Its Applications, 2000, 332, 86-92.	1.2	2
52	Multiterminal transport measurements: In-plane anisotropy and vortex liquid correlation in YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 2001, 64, .	3.2	2
53	New transition in the vortex liquid state of YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 2006, 437-438, 176-179.	1.2	2
54	Field- and current controlled switching between vortex states in a mesoscopic superconductor. Journal of Physics: Conference Series, 2009, 153, 012027.	0.4	2

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55	Time-dependent simulations of a membrane-based nanocalorimeter. Journal of Physics: Conference Series, 2010, 234, 042036.	0.4	2
56	Magneto-Optical Imaging of Josephson Vortices in Layered Superconductors. , 2004, , 39-46.		2
57	Calorimetry of Sub-microgram Grains. , 2006, , 1-5.		2
58	Magnetoquantum oscillations in the specific heat of a topological Kondo insulator. Journal of Physics Condensed Matter, 2022, 34, 36LT01.	1.8	2
59	Vortex dynamics in oxygen deficient single crystals of YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1997, 282-287, 1959-1960.	1.2	1
60	Thermally Assisted Flux Creep of a Driven Vortex Lattice in Untwinned YBa ₂ Cu ₃ O _{7-δ} Single Crystals. Journal of Low Temperature Physics, 1999, 117, 1335-1339.	1.4	1
61	Rydh and Rapp Reply:. Physical Review Letters, 2002, 88, .	7.8	1
62	Phase Diagram of Single Crystal MgB ₂ . Journal of Low Temperature Physics, 2003, 131, 1237-1244.	1.4	1
63	Publisher's Note: Two-band effects in the angular dependence of H _{c2} of MgB ₂ single crystals [Phys. Rev. B70, 132503 (2004)]. Physical Review B, 2004, 70, .	3.2	1
64	Magnetization of a few-fluxoid lead crystal. Physica C: Superconductivity and Its Applications, 2007, 460-462, 793-794.	1.2	1
65	Publisher's Note: Persistent electrical doping of Bi₂Sr₂CaCu₂O₁₀ $\text{Bi}_{2}\text{Sr}_{2}\text{CaCu}_{2}\text{O}_{10}$	3.2	1
66	Absolute specific heat measurements of a microgram Pb crystal using ac nanocalorimetry. Journal of Physics: Conference Series, 2012, 400, 022120.	0.4	1
67	Superconducting YAu ₃ Si and Antiferromagnetic GdAu ₃ Si with an Interpenetrating Framework Structure Built from 16-Atom Polyhedra. Inorganic Chemistry, 2022, 61, 4322-4334.	4.0	1
68	Multiterminal measurements of vortex correlations in the (K,Ba)BiO ₃ system. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1233-1234.	1.2	0
69	Resistivity Studies by Multiterminal Transport Measurements on Single Crystal YBa ₂ Cu ₃ O _{7-δ} . Journal of Low Temperature Physics, 2003, 131, 1009-1018.	1.4	0
70	Vortex liquid and solid correlation in untwinned YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 2003, 388-389, 727-728.	1.2	0
71	Interaction between flux-flow and phonon resonances in small Bi-2212 mesa structures. Journal of Physics: Conference Series, 2010, 234, 042016.	0.4	0
72	Size-dependent transformation from triangular to rectangular fluxon lattice in Bi-2212 mesa structures. Journal of Physics: Conference Series, 2012, 400, 052022.	0.4	0

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73	Different Estimates of the Anisotropy from Resistive Measurements in High-T _c Superconductors. , 1999, , 289-300.		0
74	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