

Andreas Rost

List of Publications by Year in descending order

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32
papers

1,512
citations

394286

19
h-index

414303

32
g-index

33
all docs

33
docs citations

33
times ranked

2183
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero-gap semiconductor to excitonic insulator transition in Ta ₂ NiSe ₅ . Nature Communications, 2017, 8, 14408.	5.8	189
2	Imaging Cooper pairing of heavy fermions in CeCoIn ₅ . Nature Physics, 2013, 9, 468-473.	6.5	175
3	Anisotropic Energy Gaps of Iron-Based Superconductivity from Intraband Quasiparticle Interference in LiFeAs. Science, 2012, 336, 563-567.	6.0	151
4	Entropy Landscape of Phase Formation Associated with Quantum Criticality in Sr ₃ Ru ₂ O ₇ . Science, 2009, 325, 1360-1363.	6.0	125
5	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	4.7	110
6	Coherent order parameter oscillations in the ground state of the excitonic insulator Ta ₂ NiSe ₅ . Science Advances, 2018, 4, eaap8652.	4.7	106
7	Giant exciton Fano resonance in quasi-one-dimensional $\text{Ta}_{1-x}\text{Nb}_x\text{O}_2$. Physical Review B, 2017, 95, .	4.1	82
8	Nested Fermi Surface and Electronic Instability in Ca ₃ Ru ₂ O ₇ . Physical Review Letters, 2006, 96, 107601.	2.9	66
9	Sr ₂ RhO ₄ : a new, clean correlated electron metal. New Journal of Physics, 2006, 8, 175-175.	1.2	54
10	Thermodynamics of phase formation in the quantum critical metal Sr ₃ Ru ₂ O ₇ . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16549-16553.	3.3	53
11	Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. Physical Review X, 2017, 7, .	2.8	48
12	Multicritical Fermi Surface Topological Transitions. Physical Review Letters, 2019, 123, 207202.	2.9	40
13	Quantum criticality and the formation of a putative electronic liquid crystal in Sr ₃ Ru ₂ O ₇ . Physica C: Superconductivity and Its Applications, 2012, 481, 207-214.	0.6	37
14	Identifying the 'fingerprint' of antiferromagnetic spin fluctuations in iron pnictide superconductors. Nature Physics, 2015, 11, 177-182.	6.5	35
15	Ca ₃ Ru ₂ O ₇ : Density Wave Formation and Quantum Oscillations in the Hall Resistivity. Journal of the Physical Society of Japan, 2010, 79, 024704.	0.7	32
16	Quantum oscillations near the metamagnetic transition in $\text{Sr}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2010, 81, .	1.1	27
17	Quantum Oscillations in the Anomalous Phase in $\text{Sr}_3\text{Ru}_2\text{O}_7$. Physical Review Letters, 2009, 103, 176401.	0.9	28
18	Magnetotransport in $\text{Sr}_3\text{Ru}_2\text{O}_7$ antiperovskite. Physical Review B, 2018, 98, .	3.1	21

#	ARTICLE	IF	CITATIONS
19	de Haasâ€™ van Alphen oscillations in the charge density wave compound lanthanum tritelluride $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{LaTe} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 19 \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Physical Review B, 2008, 78, .}$	1.1	19
20	Elastocaloric determination of the phase diagram of Sr ₂ RuO ₄ . Nature, 2022, 607, 276-280.	13.7	18
21	Giant orbital diamagnetism of three-dimensional Dirac electrons in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{antiperovskite. Physical Review B, 2021, 103, .}$	1.1	14
22	$\frac{1}{4}$ SR studies of superconductivity in eutectically grown mixed ruthenates. Physical Review B, 2012, 85, . Study of the electronic nematic phase of Sr $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ru} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Physica Status Solidi (B): Basic Research, 2010, 247, 513-515.}$	1.1	14
23	Power law specific heat divergence in Sr ₃ Ru ₂ O ₇ . Physica Status Solidi (B): Basic Research, 2010, 247, 513-515.	0.7	11
24	Magneticâ€™Field Tunable Intertwined Checkerboard Charge Order and Nematicity in the Surface Layer of Sr ₂ RuO ₄ . Advanced Materials, 2021, 33, e2100593.	11.1	11
25	Effect of electron doping the metamagnet Sr ^y LaRu ₂ O ₇ . Physical Review B, 2008, 78, .	1.1	10
26	Inverse-perovskites A ₃ BO (A = Sr, Ca, Eu/B = Pb, Sn): A platform for control of Dirac and Weyl Fermions. APL Materials, 2019, 7, 121114.	2.2	9
27	Low temperature thermodynamic investigation of the phase diagram of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Physical Review B, 2018, 97, .}$	1.1	8
28	: Electronic instability and extremely strong quasiparticle renormalisation. Journal of Magnetism and Magnetic Materials, 2007, 310, 1027-1029.	1.0	3
29	Strain-Stabilized (Î€, Î€) Order at the Surface of Fe _{1+x} Te. Nano Letters, 2021, 21, 2786-2792.	4.5	2
30	Ultrafast dynamics and coherent order parameter oscillations under photo-excitation in the excitonic insulator Ta ₂ NiSe ₅ . , 2018, , .		2
31	Magneticâ€™Field Tunable Intertwined Checkerboard Charge Order and Nematicity in the Surface Layer of Sr ₂ RuO ₄ (Adv. Mater. 32/2021). Advanced Materials, 2021, 33, 2170253.	11.1	1