

Michael Smidman

List of Publications by Year in descending order

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68
papers

1,926
citations

257450

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265206

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68
all docs

68
docs citations

68
times ranked

1995
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity and spin-orbit coupling in non-centrosymmetric materials: a review. Reports on Progress in Physics, 2017, 80, 036501.	20.1	351
2	Strange-metal behaviour in a pure ferromagnetic Kondo lattice. Nature, 2020, 579, 51-55.	27.8	101
3	Evidence for nodal superconductivity in quasi-one-dimensional KCr_3 . Physical Review B, 2015, 91, 080501.	3.2	97
4	Superconducting ground state of quasi-one-dimensional KCr_3 investigated using ^{51}V NMR. Physical Review B, 2015, 91, 080502.	3.2	84
5	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	7.8	67
6	Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001.	1.8	67
7	Evidence for Weyl fermions in a canonical heavy-fermion semimetal YbPtBi. Nature Communications, 2018, 9, 4622.	12.8	62
8	Fully gapped d -wave superconductivity in $CeCu_2Si_2$. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5343-5347.	7.1	62
9	Investigations of the superconducting states of noncentrosymmetric $LaPtSi_3$ and $LaPtSi_2$. Physical Review B, 2014, 89, 080501.	3.2	60
10	Two-Gap Superconductivity in $LaNiGa_2$: Nonunitary Triplet Pairing and Even Parity Gap Symmetry. Physical Review Letters, 2016, 117, 027001.	7.8	60
11	Possible Weyl fermions in the magnetic Kondo system $CeSb$. Npj Quantum Materials, 2017, 2, .	5.2	55
12	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet $CeCoGe_3$. Physical Review B, 2013, 88, .	3.2	49
13	Multiple quantum phase transitions and superconductivity in Ce-based heavy fermions. Reports on Progress in Physics, 2016, 79, 094503.	20.1	47
14	Nodeless superconductivity in noncentrosymmetric $PbTaSe_2$ crystals. Physical Review B, 2016, 93, .	3.2	45
15	Simultaneous Nodal Superconductivity and Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor $CaPtAs$. Physical Review Letters, 2020, 124, 207001.	7.8	42
16	Nodal multigap superconductivity in $KCaF_2$. Physical Review B, 2018, 97, .	3.2	38
17	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional $Cs_2Cr_3As_3$ Investigated Using ^{151}Sm SR Measurements. Journal of the Physical Society of Japan, 2017, 86, 044710.	1.6	36
18	Large magnetoresistance and Fermi surface topology of $PrSb$. Physical Review B, 2017, 96, .	3.2	35

#	ARTICLE	IF	CITATIONS
19	Evidence for two distinct superconducting phases in EuBiS_2 with broken time-reversal symmetry. Physical Review B, 2015, 92, 020407.	3.2	34
20	Two-gap superconductivity with line nodes in $\text{CsCa}_2\text{FeAs}_4$. Physical Review B, 2015, 92, 020408.	3.2	31
21	A brief review on $^{1/4}\text{SR}$ studies of unconventional Fe- and Cr-based superconductors. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	29
22	Evidence of double-gap superconductivity in noncentrosymmetric Nb_2Te_3 crystals. Physical Review B, 2015, 91, .	3.2	26
23	Multigap superconductivity in ThAsFeN investigated using $^{1/4}\text{SR}$ measurements. Physical Review B, 2017, 96, .	3.2	26
24	CaPtAs : A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	26
25	Anisotropic c - f Hybridization in the Ferromagnetic Quantum Critical Metal CeRh_6As_4 . Physical Review Letters, 2021, 126, 216406.	7.8	23
26	Penetration depth measurements of $\text{K}_2\text{Cr}_3\text{As}_3$ and $\text{Rb}_2\text{Cr}_3\text{As}_3$. Journal of Magnetism and Magnetic Materials, 2016, 400, 84-87.	2.3	19
27	Evolution of charge density wave order and superconductivity under pressure in LaPt_2Si_2 . Physical Review B, 2020, 101, .	3.2	18
28	Crossover from a heavy fermion to intermediate valence state in noncentrosymmetric $\text{Yb}_2\text{Ni}_{12}(\text{P,As})_7$. Scientific Reports, 2015, 5, 17608.	3.3	16
29	Realization of a New Topological Crystalline Insulator and Lifshitz Transition in PbTe . Advanced Functional Materials, 2018, 28, 1803188.	14.9	16
30	Interplay between unconventional superconductivity and heavy-fermion quantum criticality: CeCu_2Si_2 versus YbRh_2Si_2 . Philosophical Magazine, 2018, 98, 2930-2963.	1.6	16
31	Fully gapped superconductivity in single crystals of noncentrosymmetric Re_3Te_5 with broken time-reversal symmetry. Physical Review B, 2018, 97, .	3.2	16
32	Anomalous quantum oscillations and evidence for a non-trivial Berry phase in SmSb . Npj Quantum Materials, 2019, 4, .	5.2	16
33	Multigap Superconductivity in $\text{RbCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ Investigated Using $^{1/4}\text{SR}$ Measurements. Journal of the Physical Society of Japan, 2018, 87, 124705.	1.6	15
34	Enhancement of the effective mass at high magnetic fields in CeRhIn_5 . Physical Review B, 2019, 99, .	3.2	15
35	Localized 4f-electrons in the quantum critical heavy fermion ferromagnet CeRh_6Ge_4 . Science Bulletin, 2021, 66, 1389-1394.	9.0	14
36	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	5.2	14

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37	Evidence for a hybridization gap in noncentrosymmetric CeRuSi_3 . Physical Review B, 2015, 91, .	3.2	12
38	Weak interband-coupling superconductivity in the filled skutterudite LaPt_2Sb_3 . Physical Review B, 2015, 92, .	3.2	12
39	Evidence for triplet superconductivity near an antiferromagnetic instability in CrAs. Physical Review B, 2018, 98, .	3.2	12
40	Interplay between charge density wave order and superconductivity in LaAu_2Sb_2 under pressure. Physical Review B, 2020, 102, .	3.2	12
41	Crystal growth of the non-centrosymmetric superconductor $\text{Nb}_{0.18}\text{Re}_{0.82}$. Journal of Crystal Growth, 2012, 361, 129-131.	1.5	11
42	NbReSi : A noncentrosymmetric superconductor with large upper critical field. Physical Review Materials, 2021, 5, .	2.4	11
43	Probing the superconducting gap structure of BaPt_2Sb_3 . Physical Review B, 2017, 96, .	3.2	10
44	Consecutive topological phase transitions and colossal magnetoresistance in a magnetic topological semimetal. Npj Quantum Materials, 2022, 7, .	5.2	10
45	Superconductivity and multiple pressure-induced phases in BaPt_2Sb_3 . Physical Review B, 2016, 94, .	3.2	9
46	Magnetic order in Nd_2PdSi_3 investigated using neutron scattering and muon spin relaxation. Physical Review B, 2019, 100, .	3.2	9
47	Magnetic order and crystalline electric field excitations of the quantum critical heavy-fermion ferromagnet CeRh_2Sb_2 . Physical Review B, 2021, 104, .	3.2	9
48	Magnetic field-induced Fermi surface reconstruction and quantum criticality in Lu_3Sb_5 . Philosophical Magazine, 2017, 97, 3446-3459.	1.6	8
49	Nodeless superconductivity and the pear effect in the quasiskutterudites Lu_3Sb_5 and Y_3Ru_5 . Physical Review B, 2017, 95, .	3.2	7
50	Structural and magnetic properties of CeZnAl_3 single crystals. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	6
51	Magnetotransport and electronic structure of the antiferromagnetic semimetal YbAs . Physical Review B, 2020, 101, .	3.2	6
52	Nodeless superconductivity in Lu_3Sb_5 with broken time reversal symmetry. Physical Review B, 2021, 103, .	3.2	6
53	Ising-type Magnetic Anisotropy in CePd_2As_2 . Scientific Reports, 2017, 7, 7338.	3.3	5
54	Sample dependence studies of the Kondo Weyl semimetal YbPtBi . AIP Advances, 2018, 8, 101336.	1.3	5

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55	Fully gapped superconductivity with preserved time-reversal symmetry in noncentrosymmetric LaPdIn. Physical Review B, 2021, 104, .	3.2	5
56	Antiferromagnetism with divalent Eu in $\text{EuNi}_2\text{P}_2\text{As}_2$. Physical Review B, 2017, 95, .	3.2	4
57	Tuning the Heavy Fermion State of CeFeGe ₃ by Ru Doping. Chinese Physics Letters, 2018, 35, 067102.	3.3	4
58	Nodeless superconductivity in the charge density wave superconductor $\text{LaPt}_2\text{P}_2\text{As}_2$. Physical Review B, 2021, 103, .	3.2	4
59	Evidence for nodal superconductivity in a layered compound $\text{Ta}_4\text{Pd}_3\text{Te}_{16}$. Journal of Physics Condensed Matter, 2018, 30, 055701.	1.8	3
60	Physical properties and field-induced metamagnetic transitions in $\text{UAu}_{0.8}\text{Sb}_2$. Scientific Reports, 2018, 8, 7835.	3.3	3
61	Ce-Site Dilution in the Ferromagnetic Kondo Lattice CeRh_6Ge_4 . Chinese Physics Letters, 2021, 38, 087101.	3.3	3
62	Complex magnetic phase diagram in noncentrosymmetric EuPtAs . Physical Review B, 2021, 104, .	3.2	3
63	Nodeless superconductivity in noncentrosymmetric LaRhSn . Physical Review B, 2022, 105, .	3.2	3
64	Is CeCoSi_3 a superconductor?. Journal of Physics: Conference Series, 2012, 391, 012068.	0.4	2
65	Heavy fermions in high magnetic fields. Chinese Physics B, 2019, 28, 017106.	1.4	2
66	Magnetic field induced antiferromagnetic tricritical points in Ce_2Sb and Ce_2Bi . Physical Review B, 2019, 99, .	3.2	2
67	Magnetic properties of the layered heavy-fermion antiferromagnet CePdGa_6 . Physical Review B, 2022, 105, .	3.2	2
68	Structural and magnetic properties of antiferromagnetic $\text{Ce}_2\text{IrGa}_{12}$. Physical Review B, 2020, 101, .	3.2	1