

Michael Smidman

List of Publications by Year in descending order

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68
papers

1,926
citations

257101

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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.	8.1	351
2	Strange-metal behaviour in a pure ferromagnetic Kondo lattice. Nature, 2020, 579, 51-55.	13.7	101
3	Evidence for nodal superconductivity in quasi-one-dimensional Superconducting ground state of quasi-one-dimensional Physical Review B, 2015, 91, 014504.	1.1	97
4	Investigations of the superconducting states of noncentrosymmetric LaPtSi and LaPtSi Physical Review B, 2014, 89, 014504.	1.1	84
5	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	2.9	67
6	Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001.	0.7	67
7	Evidence for Weyl fermions in a canonical heavy-fermion semimetal YbPtBi. Nature Communications, 2018, 9, 4622.	5.8	62
8	Fully gapped d -wave superconductivity in CeCu ₂ Si ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5343-5347.	3.3	62
9	Investigations of the superconducting states of noncentrosymmetric LaPdSi ₃ and LaPtSi Physical Review B, 2014, 89, 014504.	1.1	60
10	Two-Gap Superconductivity in LaNiGa ₂ Nonunitary Triplet Pairing and Even Parity Gap Symmetry. Physical Review Letters, 2016, 117, 027001.	2.9	60
11	Possible Weyl fermions in the magnetic Kondo system CeSb. Npj Quantum Materials, 2017, 2, .	1.8	55
12	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet CeCoGe ₃ . Physical Review B, 2013, 88, .	1.1	49
13	Multiple quantum phase transitions and superconductivity in Ce-based heavy fermions. Reports on Progress in Physics, 2016, 79, 094503.	8.1	47
14	Nodeless superconductivity in noncentrosymmetric PbTaSe ₂ crystals. Physical Review B, 2016, 93, .	1.1	45
15	Simultaneous Nodal Superconductivity and Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor CaPtAs. Physical Review Letters, 2020, 124, 207001.	2.9	42
16	Nodal multigap superconductivity in KCaF ₂ . Physical Review B, 2018, 97, .	1.1	38
17	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional Cs ₂ Cr ₃ As ₃ Investigated Using ^{151}Sm SR Measurements. Journal of the Physical Society of Japan, 2017, 86, 044710.	0.7	36
18	Large magnetoresistance and Fermi surface topology of PrSb. Physical Review B, 2017, 96, .	1.1	35

#	ARTICLE	IF	CITATIONS
19	Evidence for two distinct superconducting phases in EuBiS_2 with broken time-reversal symmetry. Physical Review B, 2015, 91, 020407.	1.1	34
20	Two-gap superconductivity with line nodes in $\text{CsCa}_2\text{FeAs}_4$. Physical Review B, 2015, 91, 020408.	1.1	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.	2.0	29
22	Evidence of double-gap superconductivity in noncentrosymmetric Nb_2Te_3 crystals. Physical Review B, 2015, 91, .	1.1	26
23	Multigap superconductivity in ThAsFeN investigated using $^{1/4}\text{SR}$ measurements. Physical Review B, 2017, 96, .	1.1	26
24	CaPtAs : A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	26
25	Anisotropic d - f hybridization in the ferromagnetic quantum critical metal CeRh_6As_4 . Physical Review Letters, 2021, 126, 216406.	2.9	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.	1.0	19
27	Evolution of charge density wave order and superconductivity under pressure in LaPt_2Si_2 . Physical Review B, 2020, 101, .	1.1	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.	1.6	16
29	Realization of a New Topological Crystalline Insulator and Lifshitz Transition in PbTe . Advanced Functional Materials, 2018, 28, 1803188.	7.8	16
30	Interplay between unconventional superconductivity and heavy-fermion quantum criticality: CeCu_2Si_2 versus YbRh_2Si_2 . Philosophical Magazine, 2018, 98, 2930-2963.	0.7	16
31	Fully gapped superconductivity in single crystals of noncentrosymmetric Re_6As_6 with broken time-reversal symmetry. Physical Review B, 2018, 97, .	1.6	16
32	Anomalous quantum oscillations and evidence for a non-trivial Berry phase in SmSb . Npj Quantum Materials, 2019, 4, .	1.8	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.	0.7	15
34	Enhancement of the effective mass at high magnetic fields in CeRhIn_5 . Physical Review B, 2019, 99, .	1.1	15
35	Localized 4f-electrons in the quantum critical heavy fermion ferromagnet CeRh_6Ge_4 . Science Bulletin, 2021, 66, 1389-1394.	4.3	14
36	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	1.8	14

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37	Evidence for a hybridization gap in noncentrosymmetric CeRuSi . Physical Review B, 2015, 91, .	1.1	11
38	Weak interband-coupling superconductivity in the filled skutterudite LaPt . Physical Review B, 2015, 92, .	1.4	11
39	Evidence for triplet superconductivity near an antiferromagnetic instability in CrAs. Physical Review B, 2018, 98, .	1.1	12
40	Interplay between charge density wave order and superconductivity in LaAu under pressure. Physical Review B, 2020, 102, .	1.1	11
41	Crystal growth of the non-centrosymmetric superconductor $\text{Nb}_{0.18}\text{Re}_{0.82}$. Journal of Crystal Growth, 2012, 361, 129-131.	0.7	11
42	NbReSi : A noncentrosymmetric superconductor with large upper critical field. Physical Review Materials, 2021, 5, .	0.9	11
43	Probing the superconducting gap structure of LiFe . Physical Review B, 2017, 96, .	1.1	10
44	Consecutive topological phase transitions and colossal magnetoresistance in a magnetic topological semimetal. Npj Quantum Materials, 2022, 7, .	1.8	10
45	Superconductivity and multiple pressure-induced phases in BaPt . Physical Review B, 2016, 94, .	1.1	9
46	Magnetic order in Nd and PdSi investigated using neutron scattering and muon spin relaxation. Physical Review B, 2019, 100, .	1.1	9
47	Magnetic order and crystalline electric field excitations of the quantum critical heavy-fermion ferromagnet CeRh . Physical Review B, 2021, 104, .	1.1	9
48	Magnetic field-induced Fermi surface reconstruction and quantum criticality in Lu . Philosophical Magazine, 2017, 97, 3446-3459.	0.7	8
49	Nodeless superconductivity and the pear effect in the quasiskutterudites Lu and Y . Physical Review B, 2017, 95, .	1.1	7
50	Structural and magnetic properties of CeZnAl_3 single crystals. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	6
51	Magnetotransport and electronic structure of the antiferromagnetic semimetal YbAs . Physical Review B, 2020, 101, .	1.1	6
52	Nodeless superconductivity in Lu with broken time reversal symmetry. Physical Review B, 2021, 103, .	1.1	6
53	Ising-type Magnetic Anisotropy in CePd_2As_2 . Scientific Reports, 2017, 7, 7338.	1.6	5
54	Sample dependence studies of the Kondo Weyl semimetal YbPtBi . AIP Advances, 2018, 8, 101336.	0.6	5

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55	Fully gapped superconductivity with preserved time-reversal symmetry in noncentrosymmetric LaPdIn. Physical Review B, 2021, 104, .	1.1	5
56	Antiferromagnetism with divalent Eu in EuNi_5 . Physical Review B, 2017, 95, .	1.1	1
57	Tuning the Heavy Fermion State of CeFeGe ₃ by Ru Doping. Chinese Physics Letters, 2018, 35, 067102.	1.3	4
58	Nodeless superconductivity in the charge density wave superconductor LaPt_2 . Physical Review B, 2021, 103, .	1.1	1
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.	0.7	3
60	Physical properties and field-induced metamagnetic transitions in $\text{UAu}_{0.8}\text{Sb}_2$. Scientific Reports, 2018, 8, 7835.	1.6	3
61	Ce-Site Dilution in the Ferromagnetic Kondo Lattice CeRh_6Ge_4 . Chinese Physics Letters, 2021, 38, 087101.	1.3	3
62	Complex magnetic phase diagram in noncentrosymmetric EuPtAs . Physical Review B, 2021, 104, .	1.1	3
63	Nodeless superconductivity in noncentrosymmetric LaRhSn . Physical Review B, 2022, 105, .	1.1	3
64	Is CeCoSi_3 a superconductor?. Journal of Physics: Conference Series, 2012, 391, 012068.	0.3	2
65	Heavy fermions in high magnetic fields. Chinese Physics B, 2019, 28, 017106.	0.7	2
66	Magnetic field induced antiferromagnetic tricritical points in Ce_2Sb and Ce_2Bi . Physical Review B, 2019, 99, .	1.1	2
67	Magnetic properties of the layered heavy-fermion antiferromagnet CePdGa_6 . Physical Review B, 2022, 105, .	1.1	2
68	Structural and magnetic properties of antiferromagnetic $\text{Ce}_2\text{IrGa}_{12}$. Physical Review B, 2020, 101, .	1.1	1