

# 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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all docs

68  
docs citations

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times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic properties of the layered heavy-fermion antiferromagnet CePdGa <sub>6</sub> . Physical Review B, 2022, 105, .	3.2	2
2	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	5.2	14
3	Nodeless superconductivity in noncentrosymmetric LaRhSn. Physical Review B, 2022, 105, .	3.2	3
4	Consecutive topological phase transitions and colossal magnetoresistance in a magnetic topological semimetal. Npj Quantum Materials, 2022, 7, .	5.2	10
5	Nodeless superconductivity in the charge density wave superconductor $\text{LaPt}_2\text{C}$ . Physical Review B, 2021, 103, .	3.2	2
6	Anisotropic hybridization in the Ferromagnetic Quantum Critical Metal $\text{CeRh}_6\text{Ge}_4$ . Physical Review Letters, 2021, 126, 216406.	7.8	23
7	Fully gapped superconductivity with preserved time-reversal symmetry in noncentrosymmetric LaPdIn. Physical Review B, 2021, 104, .	3.2	5
8	Localized 4f-electrons in the quantum critical heavy fermion ferromagnet CeRh <sub>6</sub> Ge <sub>4</sub> . Science Bulletin, 2021, 66, 1389-1394.	9.0	14
9	Nodeless superconductivity in $\text{Lu}_2\text{C}_5$ with broken time reversal symmetry. Physical Review B, 2021, 103, .	3.2	2
10	Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001.	1.8	67
11	Ce-Site Dilution in the Ferromagnetic Kondo Lattice CeRh <sub>6</sub> Ge <sub>4</sub> . Chinese Physics Letters, 2021, 38, 087101.	3.3	3
12	Magnetic order and crystalline electric field excitations of the quantum critical heavy-fermion ferromagnet $\text{CeRh}_9\text{Pt}_2$ . Physical Review B, 2021, 104, .	3.2	9
13	NbReSi: A noncentrosymmetric superconductor with large upper critical field. Physical Review Materials, 2021, 5, .	2.4	11
14	Complex magnetic phase diagram in noncentrosymmetric EuPtAs. Physical Review B, 2021, 104, .	3.2	3
15	Interplay between charge density wave order and superconductivity in $\text{La}_3\text{Au}_2\text{C}_2$ under pressure. Physical Review B, 2020, 102, .	3.2	2
16	Simultaneous Nodal Superconductivity and Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor CaPtAs. Physical Review Letters, 2020, 124, 207001.	7.8	42
17	Magnetotransport and electronic structure of the antiferromagnetic semimetal YbAs. Physical Review B, 2020, 101, .	3.2	6
18	Strange-metal behaviour in a pure ferromagnetic Kondo lattice. Nature, 2020, 579, 51-55.	27.8	101

#	ARTICLE	IF	CITATIONS
19	Structural and magnetic properties of antiferromagnetic Ce <sub>2</sub> IrGa <sub>12</sub> . Physical Review B, 2020, 101, .	3.2	1
20	CaPtAs: A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	26
21	Evolution of charge density wave order and superconductivity under pressure in LaPt <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2020, 101, .	3.2	18
22	Magnetic order in $\text{Nd}_2\text{PdSi}_3$ investigated using neutron scattering and muon spin relaxation. Physical Review B, 2019, 100, .	3.2	9
23	Anomalous quantum oscillations and evidence for a non-trivial Berry phase in SmSb. Npj Quantum Materials, 2019, 4, .	5.2	16
24	Heavy fermions in high magnetic fields. Chinese Physics B, 2019, 28, 017106.	1.4	2
25	Enhancement of the effective mass at high magnetic fields in $\text{CeRhIn}_5$ . Physical Review B, 2019, 99, .	3.2	2
26	Magnetic field induced antiferromagnetic tricritical points in Ce <sub>2</sub> Sb and Ce <sub>2</sub> Bi. Physical Review B, 2019, 99, .	3.2	2
27	Gap superconductivity with line nodes in $\text{CsCa}_2\text{Fe}_3$ . Physical Review B, 2018, 97, .	3.2	31
28	Nodal multigap superconductivity in $\text{KCa}_2\text{F}_2$ . Physical Review B, 2018, 97, .	3.2	38
29	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
30	Evidence for Weyl fermions in a canonical heavy-fermion semimetal YbPtBi. Nature Communications, 2018, 9, 4622.	12.8	62
31	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	7.8	67
32	Multigap Superconductivity in $\text{RbCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ Investigated Using $\hat{I}^{3/4}$ SR Measurements. Journal of the Physical Society of Japan, 2018, 87, 124705.	1.6	15
33	Tuning the Heavy Fermion State of CeFeGe <sub>3</sub> by Ru Doping. Chinese Physics Letters, 2018, 35, 067102.	3.3	4
34	Sample dependence studies of the Kondo Weyl semimetal YbPtBi. AIP Advances, 2018, 8, 101336.	1.3	5
35	A brief review on $\hat{I}^{3/4}$ SR studies of unconventional Fe- and Cr-based superconductors. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	29
36	Physical properties and field-induced metamagnetic transitions in UAu <sub>0.8</sub> Sb <sub>2</sub> . Scientific Reports, 2018, 8, 7835.	3.3	3

#	ARTICLE	IF	CITATIONS
37	Evidence for triplet superconductivity near an antiferromagnetic instability in CrAs. <i>Physical Review B</i> , 2018, 98, .	3.2	12
38	Realization of a New Topological Crystalline Insulator and Lifshitz Transition in PbTe. <i>Advanced Functional Materials</i> , 2018, 28, 1803188.	14.9	16
39	Fully gapped $d$ -wave superconductivity in $CeCu_2Si_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5343-5347.	7.1	62
40	Structural and magnetic properties of $CeZnAl_3$ single crystals. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	6
41	Interplay between unconventional superconductivity and heavy-fermion quantum criticality: $CeCu_2Si_2$ versus $YbRh_2Si_2$ . <i>Philosophical Magazine</i> , 2018, 98, 2930-2963.	1.6	16
42	Fully gapped superconductivity in single crystals of noncentrosymmetric $Re_3Co_4$ with broken time-reversal symmetry. <i>Physical Review B</i> , 2018, 97, .	3.2	16
43	Superconductivity and spin-orbit coupling in non-centrosymmetric materials: a review. <i>Reports on Progress in Physics</i> , 2017, 80, 036501.	20.1	351
44	Magnetic field-induced Fermi surface reconstruction and quantum criticality in. <i>Philosophical Magazine</i> , 2017, 97, 3446-3459.	1.6	8
45	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional $Cs_2Cr_3As_3$ Investigated Using $^{15}N$ SR Measurements. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 044710.	1.6	36
46	Multigap superconductivity in $ThAsFeN$ investigated using $^{15}N$ SR measurements. <i>Physical Review B</i> , 2017, 96, .	3.2	26
47	Large magnetoresistance and Fermi surface topology of $PrSb$ . <i>Physical Review B</i> , 2017, 96, .	3.2	35
48	Antiferromagnetism with divalent Eu in $EuNi_3$ . <i>Physical Review B</i> , 2017, 95, .	3.2	11
49	Nodeless superconductivity and the pear effect in the quasicrutterudites $Lu_3Y_3Ru_3$ and $Y_3Ru_3$ . <i>Physical Review B</i> , 2017, 95, .	3.2	7
50	Ising-type Magnetic Anisotropy in $CePd_2As_2$ . <i>Scientific Reports</i> , 2017, 7, 7338.	3.3	5
51	Possible Weyl fermions in the magnetic Kondo system $CeSb$ . <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	55
52	Probing the superconducting gap structure of $Lu_3Y_3Ru_3$ . <i>Physical Review B</i> , 2017, 96, .	3.2	10
53	Multiple quantum phase transitions and superconductivity in Ce-based heavy fermions. <i>Reports on Progress in Physics</i> , 2016, 79, 094503.	20.1	47
54	Two-Gap Superconductivity in $LaNiGa_2$ . Nonunitary Triplet Pairing and Even Parity Gap Symmetry. <i>Physical Review Letters</i> , 2016, 117, 027001.	7.8	6

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55	Superconductivity and multiple pressure-induced phases in $\text{BaPt}_2\text{As}_2$ . Physical Review B, 2016, 94, .	3.2	97
56	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
57	Nodeless superconductivity in noncentrosymmetric $\text{PbTaSe}_2$ crystals. Physical Review B, 2016, 93, .	3.2	15
58	Evidence of double-gap superconductivity in noncentrosymmetric $\text{Nb}_2\text{Re}_{0.18}\text{As}_2$ crystals. Physical Review B, 2015, 91, .	3.2	26
59	Evidence for nodal superconductivity in quasi-one-dimensional $\text{KCr}_3\text{As}_3$ . Physical Review B, 2015, 91, .	3.2	97
60	Superconducting ground state of quasi-one-dimensional $\text{KCr}_3\text{As}_3$ investigated using $\text{KCr}_3\text{As}_3$ . Physical Review B, 2015, 91, .	3.2	84
61	Weak interband-coupling superconductivity in the filled skutterudite $\text{LaPt}_3\text{As}_3$ . Physical Review B, 2015, 92, .	3.2	12
62	Evidence for two distinct superconducting phases in $\text{EuBiS}_2$ under pressure. Physical Review B, 2015, 91, .	3.2	34
63	Crossover from a heavy fermion to intermediate valence state in noncentrosymmetric $\text{Yb}_2\text{Ni}_3\text{P}_7$ . Scientific Reports, 2015, 5, 17608.	3.3	16
64	Evidence for a hybridization gap in noncentrosymmetric $\text{CeRuSi}_3$ . Physical Review B, 2015, 91, .	3.2	13
65	Investigations of the superconducting states of noncentrosymmetric $\text{LaPdSi}_3$ and $\text{LaPtSi}_3$ . Physical Review B, 2014, 89, .	3.2	60
66	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet $\text{CeCoGe}_3$ . Physical Review B, 2013, 88, .	3.2	49
67	Is $\text{CeCoSi}_3$ a superconductor?. Journal of Physics: Conference Series, 2012, 391, 012068.	0.4	2
68	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