

# Daniel Agterberg

## List of Publications by Year in descending order

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docs citations

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times ranked

2991  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonsymmorphic symmetry and field-driven odd-parity pairing in $\text{CeRhAs}_2$ . Physical Review B, 2022, 105, .	8.9	16
2	Interplay between magnetism and superconductivity in $\text{UTe}_2$ . Physical Review B, 2022, 105, .	8.9	16
3	Field-Angle Dependence Reveals Odd-Parity Superconductivity in $\text{CeRhAs}_2$ . Physical Review X, 2022, 12, .	8.9	16
4	The symmetry of superconducting $\text{Sr}_2\text{RuO}_4$ . Nature Physics, 2021, 17, 169-170.	16.7	5
5	Distortional weak-coupling instability of Bogoliubov Fermi surfaces. Physical Review B, 2021, 103, .	3.2	8
6	Topological band and superconductivity in $\text{UTe}_2$ . Physical Review B, 2021, 103, .	3.2	8
7	Multicomponent superconducting order parameter in $\text{UTe}_2$ . Science, 2021, 373, 797-801.	12.6	83
8	Field-induced transition within the superconducting state of $\text{CeRhAs}_2$ . Science, 2021, 373, 1012-1016.	12.6	74
9	Using Disorder to Identify Bogoliubov Fermi-Surface States. Physical Review Letters, 2021, 127, 257002.	7.8	2
10	Orbital Angular Momentum Induced Spin Polarization of 2D Metallic Bands. Physical Review Letters, 2020, 125, 176401.	7.8	16
11	Superconductivity on Edge: Evidence of a One-Dimensional Superconducting Channel at the Edges of Single-Layer $\text{FeTeSe}$ Antiferromagnetic Nanoribbons. ACS Nano, 2020, 14, 6539-6547.	14.6	7
12	The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond. Annual Review of Condensed Matter Physics, 2020, 11, 231-270.	14.5	209
13	Generalized spin fluctuation feedback in heavy fermion superconductors. Physical Review Research, 2020, 2, .	3.6	3
14	Stabilizing even-parity chiral superconductivity in $\text{Sr}_2\text{RuO}_4$ . Physical Review Research, 2020, 2, .	3.6	3
15	Superconductivity in the presence of spin-orbit interactions stabilized by Hund coupling. Physical Review B, 2019, 99, .	3.2	20
16	Evidence for d-Wave Superconductivity in Single Layer $\text{FeSe/SrTiO}_3$ Probed by Quasiparticle Scattering Off Step Edges. Nano Letters, 2019, 19, 2497-2502.	9.1	29
17	Point-node gap structure of the spin-triplet superconductor $\text{UTe}_2$ . Physical Review B, 2019, 100, .	9.1	29
18	Magnetic fluctuations in single-layer $\text{FeSe}$ . Communications Physics, 2018, 1, .	5.3	21

#	ARTICLE	IF	CITATIONS
19	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. Science Advances, 2018, 4, eaao4513.	10.3	130
20	Residual spin susceptibility in the spin-triplet orbital-singlet model. Physical Review B, 2018, 98, .	3.2	12
21	Bogoliubov Fermi surfaces: General theory, magnetic order, and topology. Physical Review B, 2018, 98, .	3.2	86
22	Nodal topology in $d$ -wave superconducting monolayer FeSe. Physical Review B, 2018, 98, .	3.2	7
23	Superconductivity without Inversion and Time-Reversal Symmetries. Physical Review Letters, 2018, 121, 157003.	7.8	23
24	Tailoring $T_c$ by symmetry principles: The concept of superconducting fitness. Physical Review B, 2018, 98, .	3.2	54
25	Symmetry in Icosahedral Viruses: How It Is Exploited in the XFEL. Proceedings (mdpi), 2018, 2, .	0.2	0
26	Superconductivity and spin-orbit coupling in non-centrosymmetric materials: a review. Reports on Progress in Physics, 2017, 80, 036501.	20.1	351
27	Selection rules for Cooper pairing in two-dimensional interfaces and sheets. Npj Quantum Materials, 2017, 2, .	5.2	31
28	Bogoliubov Fermi Surfaces in Superconductors with Broken Time-Reversal Symmetry. Physical Review Letters, 2017, 118, 127001.	7.8	150
29	Inflated nodes and surface states in superconducting half-Heusler compounds. Physical Review B, 2017, 96, .	3.2	67
30	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor Sr <sub>2</sub> RuO <sub>4</sub> . Npj Quantum Materials, 2017, 2, .	5.2	24
31	Resilient Nodeless $d$ -Wave Superconductivity in Monolayer FeSe. Physical Review Letters, 2017, 119, 267001.	7.8	52
32	Effects of interface oxygen vacancies on electronic bands of FeSe. Physical Review B, 2016, 94, .	3.2	54
33	Pairing of $j$ -Fermions in Half-Heusler Superconductors. Physical Review Letters, 2016, 116, 177001.	7.8	122
34	Checkerboard order in vortex cores from pair-density-wave superconductivity. Physical Review B, 2015, 91, .	3.2	27
35	Emergent loop current order from pair density wave superconductivity. Physical Review B, 2015, 91, .	3.2	48
36	Coexistence of Charge-Density-Wave and Pair-Density-Wave Orders in Underdoped Cuprates. Physical Review Letters, 2015, 114, 197001.	7.8	94

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37	Interplay between pair- and charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 91, .	3.2	61
38	Microscopic prediction of skyrmion lattice state in clean interface superconductors. Physical Review B, 2014, 90, .	3.2	29
39	Superconductors with Staggered Non-centrosymmetry. Journal of the Physical Society of Japan, 2014, 83, 061014.	1.6	46
40	Vortices in cubic noncentrosymmetric superconductors. Physical Review B, 2013, 88, .	3.2	8
41	Vortex coalescence and type-1.5 superconductivity in Sr <sub>2</sub> RuO <sub>4</sub> . Physical Review B, 2012, 86, .	3.2	31
42	Kondo effect in the presence of spin-orbit coupling. Physical Review B, 2012, 85, .	3.2	32
43	Role of strong spin-orbit coupling in the superconductivity of the hexagonal pnictide SrPtAs. Physical Review B, 2012, 85, .	3.2	64
44	Magnetoelectric Effects, Helical Phases, and FFLO Phases. Lecture Notes in Physics, 2012, , 155-170.	0.7	4
45	Conventional and charge-six superfluids from melting hexagonal Fulde-Ferrell-Larkin-Ovchinnikov phases in two dimensions. Physical Review B, 2011, 84, .	3.2	19
46	Order Parameter and Vortices in the Superconducting $Q$ Phase of $CeCoIn_5$ . Physical Review Letters, 2009, 102, 207004.	7.8	75
47	Fulde-Ferrell-Larkin-Ovchinnikov Phase in $CeCoIn_5$ ?. JPSJ News and Comments, 2009, 6, 15.	0.1	0
48	Dislocations and vortices in pair-density-wave superconductors. Nature Physics, 2008, 4, 639-642.	16.7	166
49	Spatial Line Nodes and Fractional Vortex Pairs in the Fulde-Ferrell-Larkin-Ovchinnikov Vortex State of Spin-Singlet Superconductors. Physical Review Letters, 2008, 100, 017001.	7.8	28
50	Theory of vortices in hybridized ballistic/diffusive-band superconductors. Physical Review B, 2007, 75, .	3.2	13
51	Magnetic-field-induced helical and stripe phases in Rashba superconductors. Physical Review B, 2007, 75, .	3.2	110
52	Phenomenological theory of the s-wave state in superconductors without an inversion center. European Physical Journal B, 2006, 54, 435-448.	1.5	66
53	Magnetic fields and superconductivity without inversion symmetry in CePt <sub>3</sub> Si. Physica B: Condensed Matter, 2006, 378-380, 351-354.	2.7	11
54	Unconventional superconductivity in non-centrosymmetric materials. AIP Conference Proceedings, 2006, , .	0.4	3

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55	S-Wave Spin-Triplet Order in Superconductors without Inversion Symmetry:Li2Pd3BandLi2Pt3B. Physical Review Letters, 2006, 97, 017006.	7.8	363
56	Effects of ballistic and diffusive motion of quasiparticles on spectral properties around a vortex in a two-band superconductor. Physical Review B, 2006, 73, .	3.2	8
57	Helical Vortex Phase in the NoncentrosymmetricCePt3Si. Physical Review Letters, 2005, 94, 137002.	7.8	216
58	Quasiclassical determination of the in-plane magnetic field phase diagram of superconductingSr2RuO4. Physical Review B, 2005, 72, .	3.2	23
59	Spin susceptibility in superconductors without inversion symmetry. New Journal of Physics, 2004, 6, 115-115.	2.9	178
60	Superconductivity without Inversion Symmetry: MnSi versusCePt3Si. Physical Review Letters, 2004, 92, 097001.	7.8	642
61	Novel magnetic field effects in unconventional superconductors. Physica C: Superconductivity and Its Applications, 2003, 387, 13-16.	1.2	67
62	H <sub>a</sub> <sup>T</sup> phase diagram ofURu2Si2in high magnetic fields. Physical Review B, 2003, 68, .	3.2	23
63	London Theory for Superconducting Phase Transitions in External Magnetic Fields: Application toUPt3. Physical Review Letters, 2002, 89, 017004.	7.8	5
64	THEORETICAL OVERVIEW OF SUPERCONDUCTIVITY IN STRONTIUM RUTHENATE. International Journal of Modern Physics B, 2002, 16, 3233-3237.	2.0	0
65	Josephson effects between multigap and single-gap superconductors. Physical Review B, 2002, 66, .	3.2	56
66	THEORETICAL OVERVIEW OF SUPERCONDUCTIVITY IN STRONTIUM RUTHENATE. , 2002, , .		0
67	The effect of impurities on Fulde-Ferrell-Larkin-Ovchinnikov superconductors. Journal of Physics Condensed Matter, 2001, 13, 9259-9270.	1.8	66
68	In-plane upper critical field anisotropy inSr2RuO4andCeIrIn5. Physical Review B, 2001, 64, .	3.2	13
69	Spin-flux phase in the Kondo lattice model with classical localized spins. Physical Review B, 2000, 62, 13816-13819.	3.2	36
70	Reconstruction from Small-Angle Neutron Scattering Measurements of the Real Space Magnetic Field Distribution in the Mixed State ofSr2RuO4. Physical Review Letters, 2000, 84, 6094-6097.	7.8	65
71	Josephson Effect in Fulde-Ferrell-Larkin-Ovchinnikov Superconductors. Physical Review Letters, 2000, 84, 4970-4973.	7.8	45
72	Exotic ground states and impurities in multiband superconductors. Europhysics Letters, 1999, 48, 449-454.	2.0	10

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73	Possible Superconductivity in the Doped Ladder Compound $\text{La}_{1-x}\text{Sr}_x\text{CuO}_{2.5}$ . <i>Physical Review Letters</i> , 1999, 82, 4296-4299.	7.8	4
74	Conventional mechanisms for exotic superconductivity. <i>Physical Review B</i> , 1999, 60, 14868-14871.	3.2	97
75	Impurities and orbital-dependent superconductivity in $\text{Sr}_2\text{RuO}_4$ . <i>Physical Review B</i> , 1999, 60, R749-R752.	3.2	19
76	Ginzburg-Landau theory for $a_p$ -wave $\text{Sr}_2\text{RuO}_4$ superconductor: Vortex core structure and extended London theory. <i>Physical Review B</i> , 1999, 59, 7076-7082.	3.2	71
77	Square vortex lattices for two-component superconducting order parameters. <i>Physical Review B</i> , 1998, 58, 14484-14489.	3.2	45
78	Asymmetric Magnetic Interference Patterns in $\text{O}$ - $\text{Josephson}$ Junctions. <i>Physical Review Letters</i> , 1998, 80, 2689-2692.	7.8	6
79	Vortex Lattice Structures of $\text{Sr}_2\text{RuO}_4$ . <i>Physical Review Letters</i> , 1998, 80, 5184-5187.	7.8	132
80	Extrapolation lengths of unconventional superconductors. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7435-7440.	1.8	7
81	Orbital Dependent Superconductivity in $\text{Sr}_2\text{RuO}_4$ . <i>Physical Review Letters</i> , 1997, 78, 3374-3377.	7.8	275
82	Surface superconductivity and order-parameter suppression in $\text{UPt}_3$ . <i>Physical Review B</i> , 1996, 53, 3516-3519.	3.2	5
83	Effect of diffusive boundaries on surface superconductivity in unconventional superconductors. <i>Physical Review B</i> , 1996, 53, 15201-15205.	3.2	7
84	Ginzburg-Landau model of hexagonal superconductors: Application to $\text{UPt}_3$ . <i>Physical Review B</i> , 1995, 51, 8481-8488.	3.2	11
85	Theory for the Angular Dependence of the Upper Critical Field of Superconducting $\text{UPt}_3$ . <i>Physical Review Letters</i> , 1995, 74, 3904-3904.	7.8	9
86	Anomalous phase transition in $\text{URu}_2\text{Si}_2$ . <i>Physical Review B</i> , 1994, 50, 563-566.	3.2	22
87	Librational modes in solid $\text{C}_{70}$ . <i>Physical Review B</i> , 1993, 47, 13074-13077.	3.2	5
88	Model for the anisotropic intermolecular potential for $\text{C}_{70}$ . <i>Physical Review B</i> , 1993, 48, 5630-5633.	3.2	5