

Daniel Agterberg

List of Publications by Year in descending order

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88
papers

5,331
citations

94433

37
h-index

79698

73
g-index

88
all docs

88
docs citations

88
times ranked

2991
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity without Inversion Symmetry: MnSi versus CePt ₃ Si. Physical Review Letters, 2004, 92, 097001.	7.8	642
2	S-Wave Spin-Triplet Order in Superconductors without Inversion Symmetry: Li ₂ Pd ₃ B and Li ₂ Pt ₃ B. Physical Review Letters, 2006, 97, 017006.	7.8	363
3	Superconductivity and spin-orbit coupling in non-centrosymmetric materials: a review. Reports on Progress in Physics, 2017, 80, 036501.	20.1	351
4	Orbital Dependent Superconductivity in Sr ₂ RuO ₄ . Physical Review Letters, 1997, 78, 3374-3377.	7.8	275
5	Helical Vortex Phase in the Noncentrosymmetric CePt ₃ Si. Physical Review Letters, 2005, 94, 137002.	7.8	216
6	The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond. Annual Review of Condensed Matter Physics, 2020, 11, 231-270.	14.5	209
7	Spin susceptibility in superconductors without inversion symmetry. New Journal of Physics, 2004, 6, 115-115.	2.9	178
8	Dislocations and vortices in pair-density-wave superconductors. Nature Physics, 2008, 4, 639-642.	16.7	166
9	Bogoliubov Fermi Surfaces in Superconductors with Broken Time-Reversal Symmetry. Physical Review Letters, 2017, 118, 127001.	7.8	150
10	Vortex Lattice Structures of Sr ₂ RuO ₄ . Physical Review Letters, 1998, 80, 5184-5187.	7.8	132
11	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. Science Advances, 2018, 4, eaao4513.	10.3	130
12	Pairing of j Fermions in Half-Heusler Superconductors. Physical Review Letters, 2016, 116, 177001.	7.8	122
13	Magnetic-field-induced helical and stripe phases in Rashba superconductors. Physical Review B, 2007, 75, .	3.2	110
14	Conventional mechanisms for exotic superconductivity. Physical Review B, 1999, 60, 14868-14871.	3.2	97
15	Coexistence of Charge-Density-Wave and Pair-Density-Wave Orders in Underdoped Cuprates. Physical Review Letters, 2015, 114, 197001.	7.8	94
16	Stabilizing even-parity chiral superconductivity in $Sr_2Ru_2O_8$. Physical Review Research, 2020, 2, .	2.6	88
17	Bogoliubov Fermi surfaces: General theory, magnetic order, and topology. Physical Review B, 2018, 98, .	3.2	86
18	Multicomponent superconducting order parameter in UTe ₂ . Science, 2021, 373, 797-801.	12.6	83

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19	Order Parameter and Vortices in the Superconducting Q Phase of $CeCoIn_5$. Physical Review Letters, 2009, 102, 207004.	7.8	75
20	Field-induced transition within the superconducting state of $CeRh_2As_2$. Science, 2021, 373, 1012-1016.	12.6	74
21	Ginzburg-Landau theory for ap-wave Sr_2RuO_4 superconductor: Vortex core structure and extended London theory. Physical Review B, 1999, 59, 7076-7082.	3.2	71
22	Point-node gap structure of the spin-triplet superconductor UTe_2 . Physical Review B, 2019, 100, .	3.2	69
23	Novel magnetic field effects in unconventional superconductors. Physica C: Superconductivity and Its Applications, 2003, 387, 13-16.	1.2	67
24	Inflated nodes and surface states in superconducting half-Heusler compounds. Physical Review B, 2017, 96, .	3.2	67
25	The effect of impurities on Fulde-Ferrell-Larkin-Ovchinnikov superconductors. Journal of Physics Condensed Matter, 2001, 13, 9259-9270.	1.8	66
26	Phenomenological theory of the s-wave state in superconductors without an inversion center. European Physical Journal B, 2006, 54, 435-448.	1.5	66
27	Reconstruction from Small-Angle Neutron Scattering Measurements of the Real Space Magnetic Field Distribution in the Mixed State of Sr_2RuO_4 . Physical Review Letters, 2000, 84, 6094-6097.	7.8	65
28	Role of strong spin-orbit coupling in the superconductivity of the hexagonal pnictide $SrPtAs$. Physical Review B, 2012, 85, .	3.2	64
29	Interplay between pair- and charge-density-wave orders in underdoped cuprates. Physical Review B, 2015, 91, .	3.2	61
30	Josephson effects between multigap and single-gap superconductors. Physical Review B, 2002, 66, .	3.2	56
31	Tailoring T_c by symmetry principles: The concept of superconducting fitness. Physical Review B, 2018, 98, .	3.2	54
32	Resilient Nodeless d -Wave Superconductivity in Monolayer FeSe. Physical Review Letters, 2017, 119, 267001.	7.8	52
33	Emergent loop current order from pair density wave superconductivity. Physical Review B, 2015, 91, .	3.2	48
34	Superconductors with Staggered Non-centrosymmetry. Journal of the Physical Society of Japan, 2014, 83, 061014.	1.6	46
35	Square vortex lattices for two-component superconducting order parameters. Physical Review B, 1998, 58, 14484-14489.	3.2	45
36	Josephson Effect in Fulde-Ferrell-Larkin-Ovchinnikov Superconductors. Physical Review Letters, 2000, 84, 4970-4973.	7.8	45

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37	Topological band and superconductivity in UTe_2 . Physical Review B, 2021, 103, .	3.2	15
38	Spin-flux phase in the Kondo lattice model with classical localized spins. Physical Review B, 2000, 62, 13816-13819.	3.2	36
39	Kondo effect in the presence of spin-orbit coupling. Physical Review B, 2012, 85, .	3.2	32
40	Vortex coalescence and type-1.5 superconductivity in Sr_2RuO_4 . Physical Review B, 2012, 86, .	3.2	31
41	Selection rules for Cooper pairing in two-dimensional interfaces and sheets. Npj Quantum Materials, 2017, 2, .	5.2	31
42	Microscopic prediction of skyrmion lattice state in clean interface superconductors. Physical Review B, 2014, 90, .	3.2	29
43	Evidence for d-Wave Superconductivity in Single Layer $\text{FeSe}/\text{SrTiO}_3$ Probed by Quasiparticle Scattering Off Step Edges. Nano Letters, 2019, 19, 2497-2502.	9.1	29
44	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
45	Checkerboard order in vortex cores from pair-density-wave superconductivity. Physical Review B, 2015, 91, .	3.2	27
46	Nonsymmorphic symmetry and field-driven odd-parity pairing in CePt_3Sb . Physical Review B, 2022, 105, .	3.2	26
47	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor Sr_2RuO_4 . Npj Quantum Materials, 2017, 2, .	5.2	24
48	H_c^* phase diagram of URu_2Si_2 in high magnetic fields. Physical Review B, 2003, 68, .	3.2	23
49	Quasiclassical determination of the in-plane magnetic field phase diagram of superconducting Sr_2RuO_4 . Physical Review B, 2005, 72, .	3.2	23
50	Superconductivity without Inversion and Time-Reversal Symmetries. Physical Review Letters, 2018, 121, 157003.	7.8	23
51	Anomalous phase transition in URu_2Si_2 . Physical Review B, 1994, 50, 563-566.	3.2	22
52	Magnetic fluctuations in single-layer FeSe . Communications Physics, 2018, 1, .	5.3	21
53	Superconductivity in the presence of spin-orbit interactions stabilized by Hund coupling. Physical Review B, 2019, 99, .	3.2	20
54	Interplay between magnetism and superconductivity in UTe_2 . Physical Review B, 2022, 105, .	3.2	20

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55	Impurities and orbital-dependent superconductivity in Sr ₂ RuO ₄ . Physical Review B, 1999, 60, R749-R752.	3.2	19
56	Conventional and charge-six superfluids from melting hexagonal Fulde-Ferrell-Larkin-Ovchinnikov phases in two dimensions. Physical Review B, 2011, 84, .	3.2	19
57	Orbital Angular Momentum Induced Spin Polarization of 2D Metallic Bands. Physical Review Letters, 2020, 125, 176401.	7.8	16
58	Field-Angle Dependence Reveals Odd-Parity Superconductivity in CeRh_2As_2 . Physical Review X, 2022, 12, .	8.9	16
59	In-plane upper critical field anisotropy in Sr ₂ RuO ₄ and CeIrIn ₅ . Physical Review B, 2001, 64, .	3.2	13
60	Theory of vortices in hybridized ballistic/diffusive-band superconductors. Physical Review B, 2007, 75, .	3.2	13
61	Residual spin susceptibility in the spin-triplet orbital-singlet model. Physical Review B, 2018, 98, .	3.2	12
62	Ginzburg-Landau model of hexagonal superconductors: Application to UPt ₃ . Physical Review B, 1995, 51, 8481-8488.	3.2	11
63	Magnetic fields and superconductivity without inversion symmetry in CePt ₃ Si. Physica B: Condensed Matter, 2006, 378-380, 351-354.	2.7	11
64	Effects of interface oxygen vacancies on electronic bands of $\text{FeSe}/\text{FeSe}/\text{FeSe}$. Physical Review B, 2016, 94, .	3.2	11
65	Exotic ground states and impurities in multiband superconductors. Europhysics Letters, 1999, 48, 449-454.	2.0	10
66	Theory for the Angular Dependence of the Upper Critical Field of Superconducting UPt ₃ . Physical Review Letters, 1995, 74, 3904-3904.	7.8	9
67	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
68	Vortices in cubic noncentrosymmetric superconductors. Physical Review B, 2013, 88, .	3.2	8
69	Distortional weak-coupling instability of Bogoliubov Fermi surfaces. Physical Review B, 2021, 103, .	3.2	8
70	Effect of diffusive boundaries on surface superconductivity in unconventional superconductors. Physical Review B, 1996, 53, 15201-15205.	3.2	7
71	Extrapolation lengths of unconventional superconductors. Journal of Physics Condensed Matter, 1997, 9, 7435-7440.	1.8	7
72	Nodal topology in d -wave superconducting monolayer FeSe. Physical Review B, 2018, 98, .	3.2	7

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73	Superconductivity on Edge: Evidence of a One-Dimensional Superconducting Channel at the Edges of Single-Layer FeTeSe Antiferromagnetic Nanoribbons. ACS Nano, 2020, 14, 6539-6547.	14.6	7
74	Asymmetric Magnetic Interference Patterns in $0\text{-}\pi$ Josephson Junctions. Physical Review Letters, 1998, 80, 2689-2692.	7.8	6
75	Librational modes in solid C_{70} . Physical Review B, 1993, 47, 13074-13077.	3.2	5
76	Model for the anisotropic intermolecular potential for C_{70} . Physical Review B, 1993, 48, 5630-5633.	3.2	5
77	Surface superconductivity and order-parameter suppression in UPt_3 . Physical Review B, 1996, 53, 3516-3519.	3.2	5
78	London Theory for Superconducting Phase Transitions in External Magnetic Fields: Application to UPt_3 . Physical Review Letters, 2002, 89, 017004.	7.8	5
79	The symmetry of superconducting Sr_2RuO_4 . Nature Physics, 2021, 17, 169-170.	16.7	5
80	Possible Superconductivity in the Doped Ladder Compound $\text{La}_{1-x}\text{Sr}_x\text{CuO}_{2.5}$. Physical Review Letters, 1999, 82, 4296-4299.	7.8	4
81	Magnetoelectric Effects, Helical Phases, and FFLO Phases. Lecture Notes in Physics, 2012, , 155-170.	0.7	4
82	Unconventional superconductivity in non-centrosymmetric materials. AIP Conference Proceedings, 2006, , .	0.4	3
83	Generalized spin fluctuation feedback in heavy fermion superconductors. Physical Review Research, 2020, 2, .	3.6	3
84	Using Disorder to Identify Bogoliubov Fermi-Surface States. Physical Review Letters, 2021, 127, 257002.	7.8	2
85	THEORETICAL OVERVIEW OF SUPERCONDUCTIVITY IN STRONTIUM RUTHENATE. International Journal of Modern Physics B, 2002, 16, 3233-3237.	2.0	0
86	Symmetry in Icosahedral Viruses: How It Is Exploited in the XFEL. Proceedings (mdpi), 2018, 2, .	0.2	0
87	THEORETICAL OVERVIEW OF SUPERCONDUCTIVITY IN STRONTIUM RUTHENATE. , 2002, , .		0
88	Fulde's "Ferrel" Larkin's "Ovchinnikov Phase in CeCoIn_5 ?. JPSJ News and Comments, 2009, 6, 15.	0.1	0