

Dietrich Belitz

List of Publications by Year in descending order

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77
papers

2,679
citations

361413

20
h-index

175258

52
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79
all docs

79
docs citations

79
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	The Anderson-Mott transition. <i>Reviews of Modern Physics</i> , 1994, 66, 261-380.	45.6	912
2	Metallic quantum ferromagnets. <i>Reviews of Modern Physics</i> , 2016, 88, .	45.6	237
3	First Order Transitions and Multicritical Points in Weak Itinerant Ferromagnets. <i>Physical Review Letters</i> , 1999, 82, 4707-4710.	7.8	212
4	Nonanalytic behavior of the spin susceptibility in clean Fermi systems. <i>Physical Review B</i> , 1997, 55, 9452-9462.	3.2	178
5	Tricritical Behavior in Itinerant Quantum Ferromagnets. <i>Physical Review Letters</i> , 2005, 94, .	7.8	140
6	Theory of helimagnons in itinerant quantum systems. <i>Physical Review B</i> , 2006, 73, .	3.2	77
7	Quantum critical behavior of disordered itinerant ferromagnets. <i>Physical Review B</i> , 1996, 53, 14364-14376.	3.2	76
8	Self-consistent current relaxation theory for the electron localization problem. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1981, 44, 273-277.	1.9	72
9	Theory of many-fermion systems. <i>Physical Review B</i> , 1997, 56, 6513-6541.	3.2	61
10	Fluctuation-Driven Quantum Phase Transitions in Clean Itinerant Ferromagnets. <i>Physical Review Letters</i> , 2002, 89, 247202.	7.8	46
11	Universal low-temperature tricritical point in metallic ferromagnets and ferrimagnets. <i>Physical Review B</i> , 2012, 85, .	3.2	46
12	Exponent relations at quantum phase transitions with applications to metallic quantum ferromagnets. <i>Physical Review B</i> , 2015, 91, .	3.2	42
13	Quantum critical behavior of clean itinerant ferromagnets. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 103, 451-461.	1.1	37
14	Quantum critical behavior in disordered itinerant ferromagnets: Logarithmic corrections to scaling. <i>Physical Review B</i> , 2001, 63, .	3.2	37
15	Long-Time Tails, Weak Localization, and Classical and Quantum Critical Behavior. <i>Journal of Statistical Physics</i> , 2002, 109, 373-405.	1.2	29
16	Local versus nonlocal order-parameter field theories for quantum phase transitions. <i>Physical Review B</i> , 2002, 65, .	3.2	28
17	Disorder Dependence of the Ferromagnetic Quantum Phase Transition. <i>Physical Review Letters</i> , 2014, 113, 207201.	7.8	26
18	Ferromagnetic Quantum Critical Point in Noncentrosymmetric Systems. <i>Physical Review Letters</i> , 2020, 124, 147201.	7.8	25

#	ARTICLE	IF	CITATIONS
19	Theory of helimagnons in itinerant quantum systems. II. Nonanalytic corrections to Fermi-liquid behavior. <i>Physical Review B</i> , 2006, 74, .	3.2	24
20	Columnar Fluctuations as a Source of Non-Fermi-Liquid Behavior in Weak Metallic Magnets. <i>Physical Review Letters</i> , 2010, 104, 256404.	7.8	21
21	Nonanalytic magnetization dependence of the magnon effective mass in itinerant quantum ferromagnets. <i>Physical Review B</i> , 1998, 58, 14155-14158.	3.2	20
22	Quantum Triple Point and Quantum Critical End Points in Metallic Magnets. <i>Physical Review Letters</i> , 2017, 119, 267202.	7.8	20
23	Influence of Rare Regions on Magnetic Quantum Phase Transitions. <i>Physical Review Letters</i> , 1999, 82, 5132-5135.	7.8	19
24	Effective soft-mode theory of strongly interacting fermions. <i>Physical Review B</i> , 2012, 85, .	3.2	17
25	Breakdown of the Perturbative Renormalization Group at Certain Quantum Critical Points. <i>Physical Review Letters</i> , 2004, 93, 155701.	7.8	16
26	Skyrmion versus vortex flux lattices in p-wave superconductors. <i>Physical Review B</i> , 2009, 79, .	3.2	16
27	Third Law of Thermodynamics and The Shape of the Phase Diagram for Systems With a First-Order Quantum Phase Transition. <i>Physical Review Letters</i> , 2015, 115, 020402.	7.8	15
28	Transport Anomalies and Marginal-Fermi-Liquid Effects at a Quantum Critical Point. <i>Physical Review Letters</i> , 2000, 85, 4602-4605.	7.8	14
29	Long-range correlations and generic scale invariance in classical fluids and disordered electron systems. <i>Journal of Statistical Physics</i> , 1997, 87, 1307-1323.	1.2	12
30	Theory of helimagnons in itinerant quantum systems. III. Quasiparticle description. <i>Physical Review B</i> , 2008, 78, .	3.2	12
31	Preasymptotic Critical Behavior and Effective Exponents in Disordered Metallic Quantum Ferromagnets. <i>Physical Review Letters</i> , 2014, 113, 127203.	7.8	12
32	Order parameter description of the Anderson-Mott transition. <i>European Physical Journal B</i> , 1995, 98, 513-526.	1.5	11
33	Nonanalyticities in a strongly correlated Fermi liquid: Corrections to scaling at the Fermi-liquid fixed point. <i>Physical Review B</i> , 2014, 89, .	3.2	11
34	Quantum critical behavior of itinerant ferromagnets. <i>Annalen Der Physik</i> , 1999, 8, 593-602.	2.4	10
35	A watched pot on a quantum stove. <i>Nature Physics</i> , 2007, 3, 15-16.	16.7	10
36	Theory of helimagnons in itinerant quantum systems. IV. Transport in the weak-disorder regime. <i>Physical Review B</i> , 2008, 78, .	3.2	10

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37	Nature of the Quantum Phase Transition to a Spin-Nematic Phase. <i>Physical Review Letters</i> , 2011, 106, 105701.	7.8	10
38	Stable phase separation and heterogeneity away from the coexistence curve. <i>Physical Review B</i> , 2016, 93, .	3.2	10
39	Nonanalytic corrections to Fermi-liquid behavior in helimagnets. <i>Physical Review B</i> , 2005, 72, .	3.2	9
40	Absence of electron dephasing at zero temperature. <i>Physical Review B</i> , 2002, 65, .	3.2	8
41	Quantum critical behavior of itinerant ferromagnets. , 1999, 8, 593.		7
42	Soft modes in electronic stripe phases and their consequences for thermodynamics and transport. <i>Physical Review B</i> , 2009, 80, .	3.2	6
43	Fluctuation-induced first-order transition in p-wave superconductors. <i>Physical Review B</i> , 2009, 79, .	3.2	6
44	Electronic relaxation rates in metallic ferromagnets. <i>Physical Review B</i> , 2014, 89, .	3.2	6
45	Electronic transport at low temperatures: Diagrammatic approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 497-500.	2.7	5
46	Exact solution of the Boltzmann equation for low-temperature transport coefficients in metals. I. Scattering by phonons, antiferromagnons, and helimagnons. <i>Physical Review B</i> , 2020, 102, .	3.2	5
47	Criticality in Inhomogeneous Magnetic Systems: Application to Quantum Ferromagnets. <i>Physical Review Letters</i> , 2007, 99, 147203.	7.8	4
48	Fluctuating quantum kinetic theory. <i>Physical Review B</i> , 2022, 105, .	3.2	4
49	Soft modes in Fermi liquids at arbitrary temperatures. <i>Physical Review B</i> , 2022, 105, .	3.2	4
50	Annealed Disorder, Rare Regions, and Local Moments: A Novel Mechanism for Metal-Insulator Transitions. <i>Physical Review Letters</i> , 2000, 84, 5176-5179.	7.8	3
51	Why Quantum Phase Transitions Are Interesting. <i>Journal of Low Temperature Physics</i> , 2002, 126, 1107-1121.	1.4	3
52	Soft modes and nonanalyticities in a clean Dirac metal. <i>Physical Review B</i> , 2019, 99, .	3.2	3
53	Rigidity and Superfast Signal Propagation in Fluids and Solids in Non-Equilibrium Steady States. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7499-7507.	2.6	3
54	Nonhydrodynamic initial conditions are not soon forgotten. <i>Physical Review E</i> , 2021, 104, 024111.	2.1	3

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55	Exact solution of the Boltzmann equation for low-temperature transport coefficients in metals. II. Scattering by ferromagnons. <i>Physical Review B</i> , 2020, 102, .	3.2	3
56	Scaling Theory of a Compressibility-Driven Metal-Insulator Transition in a Two-Dimensional Electron Fluid. <i>Physical Review Letters</i> , 2016, 117, 236803.	7.8	2
57	Quantum correlations in metals that grow in time and space. <i>Physical Review B</i> , 2016, 93, .	3.2	2
58	The quantum ferromagnetic transition in a clean Kondo lattice is discontinuous. <i>Fortschritte Der Physik</i> , 2017, 65, 1600028.	4.4	2
59	Quantum ferromagnetic transition in clean Dirac metals. <i>Europhysics Letters</i> , 2019, 127, 57003.	2.0	2
60	The disordered Fermi-liquid fixed point and its instabilities. <i>Annalen Der Physik</i> , 1999, 8, 765-774.	2.4	1
61	TRANSPORT ANOMALIES AND MARGINAL FERMI-LIQUID EFFECTS AT A QUANTUM CRITICAL POINT. <i>International Journal of Modern Physics B</i> , 2003, 17, 5041-5045.	2.0	1
62	Anomalous pinning fields in itinerant helical magnets: Screening of the quasiparticle interaction. <i>Physical Review B</i> , 2009, 80, .	3.2	1
63	Magnon-induced long-range correlations and their neutron-scattering signature in quantum magnets. <i>Physical Review B</i> , 2016, 94, .	3.2	1
64	Spin dynamics of antiferromagnets in the presence of a homogeneous magnetization. <i>Physical Review B</i> , 2017, 95, .	3.2	1
65	Anomalous Transport Behavior in Quantum Magnets. <i>Condensed Matter</i> , 2018, 3, 30.	1.8	1
66	Magnetic quantum phase transitions in a clean Dirac metal. <i>Physical Review B</i> , 2019, 100, .	3.2	1
67	Rigorous results for the electrical conductivity due to electron-phonon scattering. <i>Journal of Mathematical Physics</i> , 2021, 62, .	1.1	1
68	Annealed Local Magnetic Moments and the Metal-Insulator Transition in Disordered Electronic Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 230, 97-100.	1.5	0
69	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5081-5091.	2.0	0
70	Weak Localization Effects at the Quantum Ferromagnetic Transition. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 171-172.	1.6	0
71	Electron localization in an external electric field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 59-62.	0.8	0
72	Analogy between three-dimensional helimagnetic metals and two-dimensional nonmagnetic metals: Transport in the weakly disordered regime. <i>Physical Review B</i> , 2008, 77, .	3.2	0

#	ARTICLE	IF	CITATIONS
73	Reply to "Comment on 'Fluctuation-induced first-order transition in p -wave superconductors'" Physical Review B, 2013, 87, 3-2		0
74	TRANSPORT ANOMALIES AND MARGINAL FERMI-LIQUID EFFECTS AT A QUANTUM CRITICAL POINT. , 2002, , .		0
75	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. , 2002, , .		0
76	Quantum critical behavior of itinerant ferromagnets. Annalen Der Physik, 1999, 511, 593-602.	2.4	0
77	The disordered Fermi-liquid fixed point and its instabilities. Annalen Der Physik, 1999, 511, 765-774.	2.4	0