

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
g-index

79
all docs

79
docs citations

79
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluctuating quantum kinetic theory. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Soft modes in Fermi liquids at arbitrary temperatures. <i>Physical Review B</i> , 2022, 105, .	3.2	4
3	Rigorous results for the electrical conductivity due to electron-phonon scattering. <i>Journal of Mathematical Physics</i> , 2021, 62, .	1.1	1
4	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
5	Nonhydrodynamic initial conditions are not soon forgotten. <i>Physical Review E</i> , 2021, 104, 024111.	2.1	3
6	Ferromagnetic Quantum Critical Point in Noncentrosymmetric Systems. <i>Physical Review Letters</i> , 2020, 124, 147201.	7.8	25
7	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
8	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
9	Quantum ferromagnetic transition in clean Dirac metals. <i>Europhysics Letters</i> , 2019, 127, 57003.	2.0	2
10	Soft modes and nonanalyticities in a clean Dirac metal. <i>Physical Review B</i> , 2019, 99, .	3.2	3
11	Magnetic quantum phase transitions in a clean Dirac metal. <i>Physical Review B</i> , 2019, 100, .	3.2	1
12	Anomalous Transport Behavior in Quantum Magnets. <i>Condensed Matter</i> , 2018, 3, 30.	1.8	1
13	The quantum ferromagnetic transition in a clean Kondo lattice is discontinuous. <i>Fortschritte Der Physik</i> , 2017, 65, 1600028.	4.4	2
14	Spin dynamics of antiferromagnets in the presence of a homogeneous magnetization. <i>Physical Review B</i> , 2017, 95, .	3.2	1
15	Quantum Triple Point and Quantum Critical End Points in Metallic Magnets. <i>Physical Review Letters</i> , 2017, 119, 267202.	7.8	20
16	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
17	Magnon-induced long-range correlations and their neutron-scattering signature in quantum magnets. <i>Physical Review B</i> , 2016, 94, .	3.2	1
18	Quantum correlations in metals that grow in time and space. <i>Physical Review B</i> , 2016, 93, .	3.2	2

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19	Stable phase separation and heterogeneity away from the coexistence curve. Physical Review B, 2016, 93, .	3.2	10
20	Metallic quantum ferromagnets. Reviews of Modern Physics, 2016, 88, .	45.6	237
21	Exponent relations at quantum phase transitions with applications to metallic quantum ferromagnets. Physical Review B, 2015, 91, .	3.2	42
22	Third Law of Thermodynamics and The Shape of the Phase Diagram for Systems With a First-Order Quantum Phase Transition. Physical Review Letters, 2015, 115, 020402.	7.8	15
23	Nonanalyticities in a strongly correlated Fermi liquid: Corrections to scaling at the Fermi-liquid fixed point. Physical Review B, 2014, 89, .	3.2	11
24	Preasymptotic Critical Behavior and Effective Exponents in Disordered Metallic Quantum Ferromagnets. Physical Review Letters, 2014, 113, 127203.	7.8	12
25	Disorder Dependence of the Ferromagnetic Quantum Phase Transition. Physical Review Letters, 2014, 113, 207201.	7.8	26
26	Electronic relaxation rates in metallic ferromagnets. Physical Review B, 2014, 89, .	3.2	6
27	Reply to "Comment on "Fluctuation-induced first-order transition in p -wave superconductors" Physical Review B, 2013, 87, .	3.2	0
28	Effective soft-mode theory of strongly interacting fermions. Physical Review B, 2012, 85, .	3.2	17
29	Universal low-temperature tricritical point in metallic ferromagnets and ferrimagnets. Physical Review B, 2012, 85, .	3.2	46
30	Nature of the Quantum Phase Transition to a Spin-Nematic Phase. Physical Review Letters, 2011, 106, 105701.	7.8	10
31	Electronic transport at low temperatures: Diagrammatic approach. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 497-500.	2.7	5
32	Columnar Fluctuations as a Source of Non-Fermi-Liquid Behavior in Weak Metallic Magnets. Physical Review Letters, 2010, 104, 256404.	7.8	21
33	Skyrmion versus vortex flux lattices in p -wave superconductors. Physical Review B, 2009, 79, .	3.2	16
34	Soft modes in electronic stripe phases and their consequences for thermodynamics and transport. Physical Review B, 2009, 80, .	3.2	6
35	Fluctuation-induced first-order transition in p -wave superconductors. Physical Review B, 2009, 79, .	3.2	6
36	Anomalous pinning fields in itinerant helical magnets: Screening of the quasiparticle interaction. Physical Review B, 2009, 80, .	3.2	1

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37	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
38	Theory of helimagnons in itinerant quantum systems. III. Quasiparticle description. <i>Physical Review B</i> , 2008, 78, .	3.2	12
39	Theory of helimagnons in itinerant quantum systems. IV. Transport in the weak-disorder regime. <i>Physical Review B</i> , 2008, 78, .	3.2	10
40	Criticality in Inhomogeneous Magnetic Systems: Application to Quantum Ferromagnets. <i>Physical Review Letters</i> , 2007, 99, 147203.	7.8	4
41	A watched pot on a quantum stove. <i>Nature Physics</i> , 2007, 3, 15-16.	16.7	10
42	Theory of helimagnons in itinerant quantum systems. <i>Physical Review B</i> , 2006, 73, .	3.2	77
43	Theory of helimagnons in itinerant quantum systems. II. Nonanalytic corrections to Fermi-liquid behavior. <i>Physical Review B</i> , 2006, 74, .	3.2	24
44	Nonanalytic corrections to Fermi-liquid behavior in helimagnets. <i>Physical Review B</i> , 2005, 72, .	3.2	9
45	Tricritical Behavior in Itinerant Quantum Ferromagnets. <i>Physical Review Letters</i> , 2005, 94, .	7.8	140
46	Breakdown of the Perturbative Renormalization Group at Certain Quantum Critical Points. <i>Physical Review Letters</i> , 2004, 93, 155701.	7.8	16
47	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
48	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5081-5091.	2.0	0
49	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
50	Weak Localization Effects at the Quantum Ferromagnetic Transition. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 171-172.	1.6	0
51	Local versus nonlocal order-parameter field theories for quantum phase transitions. <i>Physical Review B</i> , 2002, 65, .	3.2	28
52	Absence of electron dephasing at zero temperature. <i>Physical Review B</i> , 2002, 65, .	3.2	8
53	Fluctuation-Driven Quantum Phase Transitions in Clean Itinerant Ferromagnets. <i>Physical Review Letters</i> , 2002, 89, 247202.	7.8	46
54	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

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55	Why Quantum Phase Transitions Are Interesting. Journal of Low Temperature Physics, 2002, 126, 1107-1121.	1.4	3
56	Long-Time Tails, Weak Localization, and Classical and Quantum Critical Behavior. Journal of Statistical Physics, 2002, 109, 373-405.	1.2	29
57	TRANSPORT ANOMALIES AND MARGINAL FERMI-LIQUID EFFECTS AT A QUANTUM CRITICAL POINT. , 2002, , .		0
58	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. , 2002, , .		0
59	Quantum critical behavior in disordered itinerant ferromagnets: Logarithmic corrections to scaling. Physical Review B, 2001, 63, .	3.2	37
60	Annealed Disorder, Rare Regions, and Local Moments: A Novel Mechanism for Metal-Insulator Transitions. Physical Review Letters, 2000, 84, 5176-5179.	7.8	3
61	Transport Anomalies and Marginal-Fermi-Liquid Effects at a Quantum Critical Point. Physical Review Letters, 2000, 85, 4602-4605.	7.8	14
62	First Order Transitions and Multicritical Points in Weak Itinerant Ferromagnets. Physical Review Letters, 1999, 82, 4707-4710.	7.8	212
63	Influence of Rare Regions on Magnetic Quantum Phase Transitions. Physical Review Letters, 1999, 82, 5132-5135.	7.8	19
64	Quantum critical behavior of itinerant ferromagnets. Annalen Der Physik, 1999, 8, 593-602.	2.4	10
65	The disordered Fermi-liquid fixed point and its instabilities. Annalen Der Physik, 1999, 8, 765-774.	2.4	1
66	Quantum critical behavior of itinerant ferromagnets. , 1999, 8, 593.		7
67	Quantum critical behavior of itinerant ferromagnets. Annalen Der Physik, 1999, 511, 593-602.	2.4	0
68	The disordered Fermi-liquid fixed point and its instabilities. Annalen Der Physik, 1999, 511, 765-774.	2.4	0
69	Nonanalytic magnetization dependence of the magnon effective mass in itinerant quantum ferromagnets. Physical Review B, 1998, 58, 14155-14158.	3.2	20
70	Theory of many-fermion systems. Physical Review B, 1997, 56, 6513-6541.	3.2	61
71	Nonanalytic behavior of the spin susceptibility in clean Fermi systems. Physical Review B, 1997, 55, 9452-9462.	3.2	178
72	Long-range correlations and generic scale invariance in classical fluids and disordered electron systems. Journal of Statistical Physics, 1997, 87, 1307-1323.	1.2	12

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73	Quantum critical behavior of clean itinerant ferromagnets. Zeitschrift für Physik B-Condensed Matter, 1997, 103, 451-461.	1.1	37
74	Quantum critical behavior of disordered itinerant ferromagnets. Physical Review B, 1996, 53, 14364-14376.	3.2	76
75	Order parameter description of the Anderson-Mott transition. European Physical Journal B, 1995, 98, 513-526.	1.5	11
76	The Anderson-Mott transition. Reviews of Modern Physics, 1994, 66, 261-380.	45.6	912
77	Self-consistent current relaxation theory for the electron localization problem. Zeitschrift für Physik B Condensed Matter and Quanta, 1981, 44, 273-277.	1.9	72