

Thomas Vojta

List of Publications by Year in descending order

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125
papers

3,663
citations

159585

30
h-index

144013

57
g-index

128
all docs

128
docs citations

128
times ranked

1945
citing authors

#	ARTICLE	IF	CITATIONS
1	Stripe order, impurities, and symmetry breaking in a diluted frustrated magnet. <i>Physical Review B</i> , 2022, 105, .	3.2	1
2	Phase boundary near a magnetic percolation transition. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	3
3	Probability density of fractional Brownian motion and the fractional Langevin equation with absorbing walls. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 033215.	2.3	5
4	Greenâ€™s functions on a renormalized lattice: An improved method for the integer quantum Hall transition. <i>Annals of Physics</i> , 2021, , 168485.	2.8	3
5	Edge-state critical behavior of the integer quantum Hall transition. <i>European Physical Journal: Special Topics</i> , 2021, 230, 1003-1007.	2.6	0
6	Inhomogeneous mean-field approach to collective excitations near the superfluidâ€™Mott glass transition. <i>Annals of Physics</i> , 2021, 435, 168526.	2.8	4
7	Localization of the Higgs mode at the superfluidâ€™Mott glass transition. <i>Physical Review B</i> , 2021, 104, .	3.2	2
8	Tempered fractional Brownian motion on finite intervals. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	1
9	Signatures of a Quantum Griffiths Phase Close to an Electronic Nematic Quantum Phase Transition. <i>Physical Review Letters</i> , 2021, 127, 246402.	7.8	11
10	Quantum Superconductor-Metal Transitions in the Presence of Quenched Disorder. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 183-190.	1.8	1
11	Serotonergic Axons as Fractional Brownian Motion Paths: Insights Into the Self-Organization of Regional Densities. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 56.	2.1	27
12	Collective Modes at a Disordered Quantum Phase Transition. <i>Physical Review Letters</i> , 2020, 125, 027002.	7.8	4
13	Reflected fractional Brownian motion in one and higher dimensions. <i>Physical Review E</i> , 2020, 102, 032108.	2.1	34
14	Unconventional Josephson junctions with topological Kondo insulator weak links. <i>Physical Review B</i> , 2019, 100, .	3.2	3
15	Probability density of the fractional Langevin equation with reflecting walls. <i>Physical Review E</i> , 2019, 100, 042142.	2.1	32
16	Superfluid density and compressibility at the superfluid-Mott glass transition. <i>European Physical Journal: Special Topics</i> , 2019, 227, 2275-2280.	2.6	4
17	Integer quantum Hall transition on a tight-binding lattice. <i>Physical Review B</i> , 2019, 99, .	3.2	26
18	Infinite-randomness fixed point of the quantum superconductor-metal transitions in amorphous thin films. <i>Physical Review B</i> , 2019, 99, .	3.2	15

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19	Non-Gaussian behavior of reflected fractional Brownian motion. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 033209.	2.3	8
20	Disorder in Quantum Many-Body Systems. Annual Review of Condensed Matter Physics, 2019, 10, 233-252.	14.5	44
21	Fractional Brownian motion with a reflecting wall. Physical Review E, 2018, 97, 020102.	2.1	42
22	Monte Carlo simulations of a disordered superconductor-metal quantum phase transition. European Physical Journal B, 2018, 91, 1.	1.5	1
23	Quantum critical behavior of a three-dimensional superfluid-Mott glass transition. Physical Review B, 2018, 98, .	3.2	5
24	Tuning a random-field mechanism in a frustrated magnet. Physical Review B, 2018, 98, .	3.2	7
25	Extinction transitions in correlated external noise. Physical Review E, 2018, 98, 022112.	2.1	11
26	Monte Carlo simulations of the disordered three-color quantum Ashkin-Teller chain. Physical Review B, 2017, 95, .	3.2	4
27	Extinction phase transitions in a model of ecological and evolutionary dynamics. European Physical Journal B, 2017, 90, 1.	1.5	11
28	Emerging critical behavior at a first-order phase transition rounded by disorder. Fortschritte Der Physik, 2017, 65, 1600018.	4.4	0
29	Quantum Griffiths Phase inside the Ferromagnetic Phase of NiV_2 . Physical Review Letters, 2017, 118, 267202.	7.1	10
30	Superfluid-Mott glass quantum multicritical point on a percolating lattice. Journal of Physics: Conference Series, 2017, 905, 012038.	0.4	2
31	Quantum critical behavior of the superfluid-Mott glass transition. Physical Review B, 2016, 94, .	3.2	21
32	Contact process with temporal disorder. Physical Review E, 2016, 94, 022111.	2.1	19
33	Random field disorder at an absorbing state transition in one and two dimensions. Physical Review E, 2016, 93, 022120.	2.1	5
34	Spatiotemporal generalization of the Harris criterion and its application to diffusive disorder. Physical Review E, 2016, 93, 032143.	2.1	13
35	Emerging criticality in the disordered three-color Ashkin-Teller model. Physical Review B, 2015, 91, .	3.2	23
36	Strong-randomness phenomena in quantum Ashkin-Teller models. Physica Scripta, 2015, T165, 014040.	2.5	12

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37	Multifractal analysis of electronic states on random Voronoi-Delaunay lattices. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	1
38	Infinite-noise criticality: Nonequilibrium phase transitions in fluctuating environments. <i>Europhysics Letters</i> , 2015, 112, 30002.	2.0	30
39	Rare regions and Griffiths singularities at a clean critical point: The five-dimensional disordered contact process. <i>Physical Review E</i> , 2014, 90, 012139.	2.1	10
40	Contact process on generalized Fibonacci chains: Infinite-modulation criticality and double-log periodic oscillations. <i>Physical Review E</i> , 2014, 89, 012112.	2.1	15
41	Numerical method for disordered quantum phase transitions in the large N limit. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 675-682.	1.5	2
42	Enhanced rare-region effects in the contact process with long-range correlated disorder. <i>Physical Review E</i> , 2014, 90, 042132.	2.1	11
43	Criticality and Quenched Disorder: Harris Criterion Versus Rare Regions. <i>Physical Review Letters</i> , 2014, 112, 075702.	7.8	54
44	Strong-randomness infinite-coupling phase in a random quantum spin chain. <i>Physical Review B</i> , 2014, 89, .	3.2	11
45	Phase Transitions on Random Lattices: How Random is Topological Disorder?. <i>Physical Review Letters</i> , 2014, 113, 120602.	7.8	30
46	Modification of smeared phase transitions by spatial disorder correlations. , 2013, , .		1
47	Phases and phase transitions in disordered quantum systems. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	34
48	Rounding of a first-order quantum phase transition to a strong-coupling critical point. <i>Physical Review B</i> , 2012, 86, .	3.2	18
49	Monte Carlo simulations of the clean and disordered contact process in three dimensions. <i>Physical Review E</i> , 2012, 86, 051137.	2.1	31
50	Dissipation effects in random transverse-field Ising chains. <i>Physical Review B</i> , 2012, 85, .	3.2	14
51	Percolation transition in quantum Ising and rotor models with sub-Ohmic dissipation. <i>Physical Review B</i> , 2012, 86, .	3.2	2
52	Random Fields at a Nonequilibrium Phase Transition. <i>Physical Review Letters</i> , 2012, 109, 170603.	7.8	22
53	Non-Fermi liquid transport and "universal" ratios in quantum Griffiths phases. <i>Journal of Physics: Conference Series</i> , 2012, 391, 012162.	0.4	2
54	Disordered Bosons in One Dimension: From Weak- to Strong-Randomness Criticality. <i>Physical Review Letters</i> , 2012, 109, 265303.	7.8	20

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55	Quantum Griffiths singularities in ferromagnetic metals. Physical Review B, 2012, 85, .	3.2	8
56	Composition-tuned smeared phase transitions. Physical Review B, 2011, 83, .	3.2	11
57	Signatures of a quantum Griffiths phase in a d-metal alloy close to its ferromagnetic quantum critical point. Journal of Physics Condensed Matter, 2011, 23, 094205.	1.8	12
58	Influence of super-ohmic dissipation on a disordered quantum critical point. Journal of Physics Condensed Matter, 2011, 23, 094206.	1.8	9
59	Infinite-randomness criticality in a randomly layered Heisenberg magnet. Physical Review B, 2011, 84, .	3.2	5
60	Infinite randomness and quantum Griffiths effects in a classical system: The randomly layered Heisenberg magnet. Physical Review B, 2010, 81, .	3.2	12
61	Quantum Griffiths Effects and Smeared Phase Transitions in Metals: Theory and Experiment. Journal of Low Temperature Physics, 2010, 161, 299-323.	1.4	138
62	Smeared quantum phase transition in the dissipative random quantum Ising model. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 383-387.	2.7	4
63	Magnetic Gr ^{1/4} neisen ratio of the random transverseâ€field Ising chain. Physica Status Solidi (B): Basic Research, 2010, 247, 525-529.	1.5	2
64	Magnetic excitations in the spinel compound $\text{Li}_{1-x}\text{Ni}_x\text{Mn}_{1-x}\text{O}_4$ Physical Review B, 2010, 81, .	3.2	7
65	Dynamical Conductivity at the Dirty Superconductor-Metal Quantum Phase Transition. Physical Review Letters, 2010, 105, 145702.	7.8	23
66	Quantum Griffiths Phase in the Weak Itinerant Ferromagnetic Alloy $\text{Ni}_{1-x}\text{Mn}_x\text{O}_4$ Physical Review Letters, 2010, 104, 066402.	7.8	23
67	Anomalous Elastic Intermediate Phase in Randomly Layered Superfluids, Superconductors, and Planar Magnets. Physical Review Letters, 2010, 105, 085301.	7.8	11
68	Infinite-randomness critical point in the two-dimensional disordered contact process. Physical Review E, 2009, 79, 011111.	2.1	102
69	Infinite-randomness quantum critical points induced by dissipation. Physical Review B, 2009, 79, .	3.2	61
70	Thermal expansion and Gr ^{1/4} neisen parameter in quantum Griffiths phases. Physical Review B, 2009, 80, .	3.2	11
71	The search for quantum critical scaling in a classical system. Journal of Applied Physics, 2009, 105, 07E322.	2.5	3
72	Magnetic ordering in the spinel compound Li[Mn ²⁺ _x Li _{1-x}]O ₄ (x=,0.04). Journal of Applied Physics, 2009, 105, .	2.5	5

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73	Ordered droplets in quantum magnets with long-range interactions. Physica B: Condensed Matter, 2008, 403, 1239-1241.	2.7	0
74	Dissipation effects in percolating quantum Ising magnets. Physica B: Condensed Matter, 2008, 403, 1245-1247.	2.7	3
75	Theory of Smeared Quantum Phase Transitions. Physical Review Letters, 2008, 100, 240601.	7.8	62
76	QUANTUM PHASE TRANSITIONS ON PERCOLATING LATTICES. , 2008, , .		4
77	Local defect in a magnet with long-range interactions. Physical Review B, 2007, 75, .	3.2	7
78	Effects of Dissipation on a Quantum Critical Point with Disorder. Physical Review Letters, 2007, 99, 230601.	7.8	67
79	Rare region effects at classical, quantum and nonequilibrium phase transitions. Journal of Physics A, 2006, 39, R143-R205.	1.6	344
80	Nonequilibrium Phase Transition on a Randomly Diluted Lattice. Physical Review Letters, 2006, 96, 035701.	7.8	46
81	Percolation transition and dissipation in quantum Ising magnets. Physical Review B, 2006, 74, .	3.2	18
82	Quantum phase transitions of the diluted O(3) rotor model. Physical Review B, 2006, 74, .	3.2	25
83	Monte Carlo simulations of the smeared phase transition in a contact process with extended defects. Journal of Physics A, 2005, 38, 1199-1208.	1.6	17
84	How generic scale invariance influences quantum and classical phase transitions. Reviews of Modern Physics, 2005, 77, 579-632.	45.6	245
85	Percolation Quantum Phase Transitions in Diluted Magnets. Physical Review Letters, 2005, 95, 237206.	7.8	44
86	Critical behavior and Griffiths effects in the disordered contact process. Physical Review E, 2005, 72, 036126.	2.1	99
87	Quantum Griffiths effects in itinerant Heisenberg magnets. Physical Review B, 2005, 72, .	3.2	91
88	Exotic Versus Conventional Scaling and Universality in a Disordered Bilayer Quantum Heisenberg Antiferromagnet. Physical Review Letters, 2004, 93, 097201.	7.8	40
89	Broadening of a nonequilibrium phase transition by extended structural defects. Physical Review E, 2004, 70, 026108.	2.1	30
90	Smeared phase transition in a three-dimensional Ising model with planar defects: Monte Carlo simulations. Physical Review B, 2004, 69, .	3.2	33

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91	Critical points and quenched disorder: From Harris criterion to rare regions and smearing. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2118-2127.	1.5	14
92	The Hartree-Fock based diagonalization – an efficient algorithm for the treatment of interacting electrons in disordered solids. <i>Mathematics and Computers in Simulation</i> , 2003, 62, 243-254.	4.4	1
93	Smearing of the phase transition in Ising systems with planar defects. <i>Journal of Physics A</i> , 2003, 36, 10921-10935.	1.6	56
94	Disorder-Induced Rounding of Certain Quantum Phase Transitions. <i>Physical Review Letters</i> , 2003, 90, 107202.	7.8	121
95	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5081-5091.	2.0	0
96	Fock space localization, return probability, and conductance of disordered interacting electrons. <i>Physica B: Condensed Matter</i> , 2001, 296, 52-55.	2.7	2
97	Disorder and two-particle interaction in low-dimensional quantum systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 397-404.	2.7	11
98	INTERACTING ELECTRONS IN PARABOLIC QUANTUM DOTS: ENERGY LEVELS, ADDITION ENERGIES, AND CHARGE DISTRIBUTIONS. <i>International Journal of Modern Physics B</i> , 2001, 15, 3641-3645.	2.0	7
99	Strong Enhancement of Superconducting T_c in Ferromagnetic Phases. <i>Physical Review Letters</i> , 2001, 87, 127003.	7.8	92
100	Quantum phase transitions in electronic systems. <i>Annalen Der Physik</i> , 2000, 9, 403-440.	2.4	44
101	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
102	Transport Anomalies and Marginal-Fermi-Liquid Effects at a Quantum Critical Point. <i>Physical Review Letters</i> , 2000, 85, 4602-4605.	7.8	14
103	Quantum phase transitions in electronic systems. , 2000, 9, 403.		7
104	First Order Transitions and Multicritical Points in Weak Itinerant Ferromagnets. <i>Physical Review Letters</i> , 1999, 82, 4707-4710.	7.8	212
105	Critical behavior of disordered quantum magnets: The relevance of rare regions. <i>Physical Review B</i> , 1999, 60, 10150-10163.	3.2	20
106	Influence of Rare Regions on Magnetic Quantum Phase Transitions. <i>Physical Review Letters</i> , 1999, 82, 5132-5135.	7.8	19
107	Transport in disordered interacting systems: numerical results for one-dimensional spinless electrons. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 443-449.	2.6	6
108	Quantum critical behavior of itinerant ferromagnets. <i>Annalen Der Physik</i> , 1999, 511, 593-602.	2.4	0

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109	Differences between regular and random order of updates in damage-spreading simulations. Physical Review E, 1998, 58, 7998-8000.	2.1	9
110	Do Interactions Increase or Reduce the Conductance of Disordered Electrons? It Depends!. Physical Review Letters, 1998, 81, 4212-4215.	7.8	65
111	Nonanalytic magnetization dependence of the magnon effective mass in itinerant quantum ferromagnets. Physical Review B, 1998, 58, 14155-14158.	3.2	20
112	Electronic transport in disordered interacting systems. Annalen Der Physik, 1998, 510, 493-497.	2.4	0
113	Quantum Coulomb glass within a Hartree-Fock approximation. Physical Review B, 1997, 56, 5890-5896.	3.2	45
114	Chaotic behavior and damage spreading in the Glauber Ising model:A master equation approach. Physical Review E, 1997, 55, 5157-5164.	2.1	19
115	Monte Carlo simulations of the dynamical behavior of the Coulomb glass. Physical Review B, 1997, 55, 6272-6277.	3.2	22
116	Nonanalytic behavior of the spin susceptibility in clean Fermi systems. Physical Review B, 1997, 55, 9452-9462.	3.2	178
117	Quantum critical behavior of clean itinerant ferromagnets. Zeitschrift für Physik B-Condensed Matter, 1997, 103, 451-461.	1.1	37
118	Current localization in nonlinear inhomogeneous media. Journal of Physics Condensed Matter, 1996, 8, L461-L467.	1.8	4
119	Critical behavior of a quantum spherical model in a random field. Physical Review B, 1996, 53, 8211-8214.	3.2	26
120	Quantum version of a spherical model: Crossover from quantum to classical critical behavior. Physical Review B, 1996, 53, 710-714.	3.2	83
121	Generalization of the Schwartz-Soffer inequality for correlated random fields. Physical Review B, 1995, 52, R693-R695.	3.2	5
122	Coulomb gap at finite temperatures. Physical Review B, 1995, 52, R3820-R3823.	3.2	48
123	Generalized Coulomb gap in the spherical version of a lattice model of disordered and correlated localized particles. Physical Review B, 1994, 49, 7861-7867.	3.2	8
124	Critical correlations and susceptibilities in the random-field spherical model. Physical Review B, 1994, 50, 1272-1274.	3.2	12
125	Comment on "Critical Behavior of the Coulomb Glass". Physical Review Letters, 1994, 73, 2933-2933.	7.8	15