

Thomas Vojta

List of Publications by Year in descending order

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125
papers

3,663
citations

159585

30
h-index

144013

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128
all docs

128
docs citations

128
times ranked

1945
citing authors

#	ARTICLE	IF	CITATIONS
1	Rare region effects at classical, quantum and nonequilibrium phase transitions. Journal of Physics A, 2006, 39, R143-R205.	1.6	344
2	How generic scale invariance influences quantum and classical phase transitions. Reviews of Modern Physics, 2005, 77, 579-632.	45.6	245
3	First Order Transitions and Multicritical Points in Weak Itinerant Ferromagnets. Physical Review Letters, 1999, 82, 4707-4710.	7.8	212
4	Nonanalytic behavior of the spin susceptibility in clean Fermi systems. Physical Review B, 1997, 55, 9452-9462.	3.2	178
5	Quantum Griffiths Effects and Smeared Phase Transitions in Metals: Theory and Experiment. Journal of Low Temperature Physics, 2010, 161, 299-323.	1.4	138
6	Disorder-Induced Rounding of Certain Quantum Phase Transitions. Physical Review Letters, 2003, 90, 107202.	7.8	121
7	Infinite-randomness critical point in the two-dimensional disordered contact process. Physical Review E, 2009, 79, 011111.	2.1	102
8	Critical behavior and Griffiths effects in the disordered contact process. Physical Review E, 2005, 72, 036126.	2.1	99
9	Quantum Griffiths Phase in the Weak Itinerant Ferromagnetic Alloy $\text{Ni}_x\text{V}_{1-x}$. Physical Review Letters, 2010, 104, 066402.	7.8	98
10	Strong Enhancement of Superconducting T_c in Ferromagnetic Phases. Physical Review Letters, 2001, 87, 127003.	7.8	92
11	Quantum Griffiths effects in itinerant Heisenberg magnets. Physical Review B, 2005, 72, .	3.2	91
12	Quantum version of a spherical model: Crossover from quantum to classical critical behavior. Physical Review B, 1996, 53, 710-714.	3.2	83
13	Effects of Dissipation on a Quantum Critical Point with Disorder. Physical Review Letters, 2007, 99, 230601.	7.8	67
14	Do Interactions Increase or Reduce the Conductance of Disordered Electrons? It Depends!. Physical Review Letters, 1998, 81, 4212-4215.	7.8	65
15	Theory of Smeared Quantum Phase Transitions. Physical Review Letters, 2008, 100, 240601.	7.8	62
16	Infinite-randomness quantum critical points induced by dissipation. Physical Review B, 2009, 79, .	3.2	61
17	Smearing of the phase transition in Ising systems with planar defects. Journal of Physics A, 2003, 36, 10921-10935.	1.6	56
18	Criticality and Quenched Disorder: Harris Criterion Versus Rare Regions. Physical Review Letters, 2014, 112, 075702.	7.8	54

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19	Coulomb gap at finite temperatures. <i>Physical Review B</i> , 1995, 52, R3820-R3823.	3.2	48
20	Nonequilibrium Phase Transition on a Randomly Diluted Lattice. <i>Physical Review Letters</i> , 2006, 96, 035701.	7.8	46
21	Quantum Coulomb glass within a Hartree-Fock approximation. <i>Physical Review B</i> , 1997, 56, 5890-5896.	3.2	45
22	Quantum phase transitions in electronic systems. <i>Annalen Der Physik</i> , 2000, 9, 403-440.	2.4	44
23	Percolation Quantum Phase Transitions in Diluted Magnets. <i>Physical Review Letters</i> , 2005, 95, 237206.	7.8	44
24	Disorder in Quantum Many-Body Systems. <i>Annual Review of Condensed Matter Physics</i> , 2019, 10, 233-252.	14.5	44
25	Fractional Brownian motion with a reflecting wall. <i>Physical Review E</i> , 2018, 97, 020102.	2.1	42
26	Exotic Versus Conventional Scaling and Universality in a Disordered Bilayer Quantum Heisenberg Antiferromagnet. <i>Physical Review Letters</i> , 2004, 93, 097201.	7.8	40
27	Quantum critical behavior of clean itinerant ferromagnets. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 103, 451-461.	1.1	37
28	Phases and phase transitions in disordered quantum systems. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	34
29	Reflected fractional Brownian motion in one and higher dimensions. <i>Physical Review E</i> , 2020, 102, 032108.	2.1	34
30	Smearred phase transition in a three-dimensional Ising model with planar defects: Monte Carlo simulations. <i>Physical Review B</i> , 2004, 69, .	3.2	33
31	Probability density of the fractional Langevin equation with reflecting walls. <i>Physical Review E</i> , 2019, 100, 042142.	2.1	32
32	Monte Carlo simulations of the clean and disordered contact process in three dimensions. <i>Physical Review E</i> , 2012, 86, 051137.	2.1	31
33	Broadening of a nonequilibrium phase transition by extended structural defects. <i>Physical Review E</i> , 2004, 70, 026108.	2.1	30
34	Phase Transitions on Random Lattices: How Random is Topological Disorder?. <i>Physical Review Letters</i> , 2014, 113, 120602.	7.8	30
35	Infinite-noise criticality: Nonequilibrium phase transitions in fluctuating environments. <i>Europhysics Letters</i> , 2015, 112, 30002.	2.0	30
36	Quantum Griffiths Phase Inside the Ferromagnetic Phase of $\text{Ni}_x\text{V}_{1-x}$. <i>Physical Review Letters</i> , 2017, 118, 267202.	7.8	30

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37	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
38	Critical behavior of a quantum spherical model in a random field. <i>Physical Review B</i> , 1996, 53, 8211-8214.	3.2	26
39	Integer quantum Hall transition on a tight-binding lattice. <i>Physical Review B</i> , 2019, 99, .	3.2	26
40	Quantum phase transitions of the diluted O(3) rotor model. <i>Physical Review B</i> , 2006, 74, .	3.2	25
41	Dynamical Conductivity at the Dirty Superconductor-Metal Quantum Phase Transition. <i>Physical Review Letters</i> , 2010, 105, 145702.	7.8	23
42	Emerging criticality in the disordered three-color Ashkin-Teller model. <i>Physical Review B</i> , 2015, 91, .	3.2	23
43	Monte Carlo simulations of the dynamical behavior of the Coulomb glass. <i>Physical Review B</i> , 1997, 55, 6272-6277.	3.2	22
44	Random Fields at a Nonequilibrium Phase Transition. <i>Physical Review Letters</i> , 2012, 109, 170603.	7.8	22
45	Quantum critical behavior of the superfluid-Mott glass transition. <i>Physical Review B</i> , 2016, 94, .	3.2	21
46	Nonanalytic magnetization dependence of the magnon effective mass in itinerant quantum ferromagnets. <i>Physical Review B</i> , 1998, 58, 14155-14158.	3.2	20
47	Critical behavior of disordered quantum magnets: The relevance of rare regions. <i>Physical Review B</i> , 1999, 60, 10150-10163.	3.2	20
48	Disordered Bosons in One Dimension: From Weak- to Strong-Randomness Criticality. <i>Physical Review Letters</i> , 2012, 109, 265303.	7.8	20
49	Chaotic behavior and damage spreading in the Glauber Ising model: A master equation approach. <i>Physical Review E</i> , 1997, 55, 5157-5164.	2.1	19
50	Influence of Rare Regions on Magnetic Quantum Phase Transitions. <i>Physical Review Letters</i> , 1999, 82, 5132-5135.	7.8	19
51	Contact process with temporal disorder. <i>Physical Review E</i> , 2016, 94, 022111.	2.1	19
52	Percolation transition and dissipation in quantum Ising magnets. <i>Physical Review B</i> , 2006, 74, .	3.2	18
53	Rounding of a first-order quantum phase transition to a strong-coupling critical point. <i>Physical Review B</i> , 2012, 86, .	3.2	18
54	Monte Carlo simulations of the smeared phase transition in a contact process with extended defects. <i>Journal of Physics A</i> , 2005, 38, 1199-1208.	1.6	17

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55	Comment on "Critical Behavior of the Coulomb Glass". Physical Review Letters, 1994, 73, 2933-2933.	7.8	15
56	Contact process on generalized Fibonacci chains: Infinite-modulation criticality and double-log periodic oscillations. Physical Review E, 2014, 89, 012112.	2.1	15
57	Infinite-randomness fixed point of the quantum superconductor-metal transitions in amorphous thin films. Physical Review B, 2019, 99, .	3.2	15
58	Transport Anomalies and Marginal-Fermi-Liquid Effects at a Quantum Critical Point. Physical Review Letters, 2000, 85, 4602-4605.	7.8	14
59	Critical points and quenched disorder: From Harris criterion to rare regions and smearing. Physica Status Solidi (B): Basic Research, 2004, 241, 2118-2127.	1.5	14
60	Dissipation effects in random transverse-field Ising chains. Physical Review B, 2012, 85, .	3.2	14
61	Spatiotemporal generalization of the Harris criterion and its application to diffusive disorder. Physical Review E, 2016, 93, 032143.	2.1	13
62	Critical correlations and susceptibilities in the random-field spherical model. Physical Review B, 1994, 50, 1272-1274.	3.2	12
63	Infinite randomness and quantum Griffiths effects in a classical system: The randomly layered Heisenberg magnet. Physical Review B, 2010, 81, .	3.2	12
64	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
65	Strong-randomness phenomena in quantum Ashkinâ€Teller models. Physica Scripta, 2015, T165, 014040.	2.5	12
66	Disorder and two-particle interaction in low-dimensional quantum systems. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 397-404.	2.7	11
67	Thermal expansion and GrÃ¼nisen parameter in quantum Griffiths phases. Physical Review B, 2009, 80, .	3.2	11
68	Anomalously Elastic Intermediate Phase in Randomly Layered Superfluids, Superconductors, and Planar Magnets. Physical Review Letters, 2010, 105, 085301.	7.8	11
69	Composition-tuned smeared phase transitions. Physical Review B, 2011, 83, .	3.2	11
70	Enhanced rare-region effects in the contact process with long-range correlated disorder. Physical Review E, 2014, 90, 042132.	2.1	11
71	Strong-randomness infinite-coupling phase in a random quantum spin chain. Physical Review B, 2014, 89, .	3.2	11
72	Extinction phase transitions in a model of ecological and evolutionary dynamics. European Physical Journal B, 2017, 90, 1.	1.5	11

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73	Extinction transitions in correlated external noise. <i>Physical Review E</i> , 2018, 98, 022112.	2.1	11
74	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
75	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
76	Differences between regular and random order of updates in damage-spreading simulations. <i>Physical Review E</i> , 1998, 58, 7998-8000.	2.1	9
77	Influence of super-ohmic dissipation on a disordered quantum critical point. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 094206.	1.8	9
78	Generalized Coulomb gap in the spherical version of a lattice model of disordered and correlated localized particles. <i>Physical Review B</i> , 1994, 49, 7861-7867.	3.2	8
79	Quantum Griffiths singularities in ferromagnetic metals. <i>Physical Review B</i> , 2012, 85, .	3.2	8
80	Non-Gaussian behavior of reflected fractional Brownian motion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 033209.	2.3	8
81	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
82	Local defect in a magnet with long-range interactions. <i>Physical Review B</i> , 2007, 75, .	3.2	7
83	Magnetic excitations in the spinel compound $\text{Li}_{1-x}\text{Mn}_2\text{O}_4$ ($x=0.04$). <i>Physical Review B</i> , 2010, 81, .	3.2	7
84	Tuning a random-field mechanism in a frustrated magnet. <i>Physical Review B</i> , 2018, 98, .	3.2	7
85	Quantum phase transitions in electronic systems. , 2000, 9, 403.		7
86	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
87	Generalization of the Schwartz-Soffer inequality for correlated random fields. <i>Physical Review B</i> , 1995, 52, R693-R695.	3.2	5
88	Magnetic ordering in the spinel compound $\text{Li}[\text{Mn}_{2-x}\text{Li}_x]\text{O}_4$ ($x=0.04$). <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	5
89	Infinite-randomness criticality in a randomly layered Heisenberg magnet. <i>Physical Review B</i> , 2011, 84, .	3.2	5
90	Random field disorder at an absorbing state transition in one and two dimensions. <i>Physical Review E</i> , 2016, 93, 022120.	2.1	5

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91	Quantum critical behavior of a three-dimensional superfluid-Mott glass transition. <i>Physical Review B</i> , 2018, 98, .	3.2	5
92	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
93	Current localization in nonlinear inhomogeneous media. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L461-L467.	1.8	4
94	Smearred quantum phase transition in the dissipative random quantum Ising model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 383-387.	2.7	4
95	Monte Carlo simulations of the disordered three-color quantum Ashkin-Teller chain. <i>Physical Review B</i> , 2017, 95, .	3.2	4
96	Superfluid density and compressibility at the superfluid-Mott glass transition. <i>European Physical Journal: Special Topics</i> , 2019, 227, 2275-2280.	2.6	4
97	Collective Modes at a Disordered Quantum Phase Transition. <i>Physical Review Letters</i> , 2020, 125, 027002.	7.8	4
98	Inhomogeneous mean-field approach to collective excitations near the superfluid-Mott glass transition. <i>Annals of Physics</i> , 2021, 435, 168526.	2.8	4
99	QUANTUM PHASE TRANSITIONS ON PERCOLATING LATTICES. , 2008, , .		4
100	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
101	Dissipation effects in percolating quantum Ising magnets. <i>Physica B: Condensed Matter</i> , 2008, 403, 1245-1247.	2.7	3
102	The search for quantum critical scaling in a classical system. <i>Journal of Applied Physics</i> , 2009, 105, 07E322.	2.5	3
103	Unconventional Josephson junctions with topological Kondo insulator weak links. <i>Physical Review B</i> , 2019, 100, .	3.2	3
104	Phase boundary near a magnetic percolation transition. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	3
105	Green'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
106	Fock space localization, return probability, and conductance of disordered interacting electrons. <i>Physica B: Condensed Matter</i> , 2001, 296, 52-55.	2.7	2
107	Magnetic Gr $\frac{1}{4}$ neisen ratio of the random transverse-field Ising chain. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 525-529.	1.5	2
108	Percolation transition in quantum Ising and rotor models with sub-Ohmic dissipation. <i>Physical Review B</i> , 2012, 86, .	3.2	2

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109	Non-Fermi liquid transport and "universal" ratios in quantum Griffiths phases. Journal of Physics: Conference Series, 2012, 391, 012162.	0.4	2
110	Numerical method for disordered quantum phase transitions in the large N limit. Physica Status Solidi (B): Basic Research, 2014, 251, 675-682.	1.5	2
111	Superfluid-Mott glass quantum multicritical point on a percolating lattice. Journal of Physics: Conference Series, 2017, 905, 012038.	0.4	2
112	Localization of the Higgs mode at the superfluid-Mott glass transition. Physical Review B, 2021, 104, .	3.2	2
113	The Hartree-Fock based diagonalization – an efficient algorithm for the treatment of interacting electrons in disordered solids. Mathematics and Computers in Simulation, 2003, 62, 243-254.	4.4	1
114	Modification of smeared phase transitions by spatial disorder correlations. , 2013, , .		1
115	Multifractal analysis of electronic states on random Voronoi-Delaunay lattices. European Physical Journal B, 2015, 88, 1.	1.5	1
116	Monte Carlo simulations of a disordered superconductor-metal quantum phase transition. European Physical Journal B, 2018, 91, 1.	1.5	1
117	Quantum Superconductor-Metal Transitions in the Presence of Quenched Disorder. Journal of Superconductivity and Novel Magnetism, 2020, 33, 183-190.	1.8	1
118	Tempered fractional Brownian motion on finite intervals. European Physical Journal B, 2021, 94, 1.	1.5	1
119	Stripe order, impurities, and symmetry breaking in a diluted frustrated magnet. Physical Review B, 2022, 105, .	3.2	1
120	SUPERCONDUCTIVITY AND QUANTUM PHASE TRANSITIONS IN WEAK ITINERANT FERROMAGNETS. International Journal of Modern Physics B, 2003, 17, 5081-5091.	2.0	0
121	Ordered droplets in quantum magnets with long-range interactions. Physica B: Condensed Matter, 2008, 403, 1239-1241.	2.7	0
122	Emerging critical behavior at a first-order phase transition rounded by disorder. Fortschritte Der Physik, 2017, 65, 1600018.	4.4	0
123	Edge-state critical behavior of the integer quantum Hall transition. European Physical Journal: Special Topics, 2021, 230, 1003-1007.	2.6	0
124	Electronic transport in disordered interacting systems. Annalen Der Physik, 1998, 510, 493-497.	2.4	0
125	Quantum critical behavior of itinerant ferromagnets. Annalen Der Physik, 1999, 511, 593-602.	2.4	0