Peter C W Holdsworth

List of Publications by Year
in descending order

95 papers	3,919 citations	126907 33 h-index	118850 62 g-index
96 all docs	96 docs citations	96 times ranked	2668 citing authors

#	Article	IF	Citations
1	Violation of the fluctuation-dissipation theorem and effective temperatures in spin ice. Physical Review B, 2022, 105, .	3.2	1
2	Electric field fluctuations in the two-dimensional Coulomb fluid. New Journal of Physics, 2021, 23, 093039.	2.9	0
3	Fragmentation in Frustrated Magnets: A Review. Journal of Low Temperature Physics, 2020, 201, 710-737.	1.4	17
4	The effect of driving on model C interfaces. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 033206.	2.3	1
5	Emergent electrochemistry in spin ice: Debye-HÃ¼ckel theory and beyond. Physical Review B, 2018, 98, .	3.2	25
6	An electric-field representation of the harmonic XY model. Journal of Physics Condensed Matter, 2017, 29, 085402.	1.8	1
7	Spin ice Thin Film: Surface Ordering, Emergent Square ice, and Strain Effects. Physical Review Letters, 2017, 118, 207206.	7.8	15
8	Finite-size scaling of the magnetization probability density for the critical Ising model in slab geometry. Journal of Physics Condensed Matter, 2016, 28, 166007.	1.8	2
9	From quantum to thermal topological-sector fluctuations of strongly interacting Bosons in a ring lattice. New Journal of Physics, 2016, 18, 075003.	2.9	15
10	Critical Casimir forces from the equation of state of quantum critical systems. Physical Review B, 2016, 94, .	3.2	11
11	Field-induced ordering in dipolar spin ice. Physical Review B, 2016, 93, .	3.2	4
12	Direct calculation of the critical Casimir force in a binary fluid. Physical Review E, 2016, 94, 040102.	2.1	10
13	Topological-sector fluctuations and ergodicity breaking at the Berezinskii-Kosterlitz-Thouless transition. Physical Review B, 2015, 91, .	3.2	14
14	ac Wien Effect in Spin Ice, Manifest in Nonlinear, Nonequilibrium Susceptibility. Physical Review Letters, 2015, 115, 037201.	7.8	25
15	Phase order in superfluid helium films. Europhysics Letters, 2015, 112, 56003.	2.0	4
16	Magnetic-Moment Fragmentation and Monopole Crystallization. Physical Review X, 2014, 4, .	8.9	97
17	Critical Casimir forces in a magnetic system: An experimental protocol. Physical Review B, 2014, 90, .	3.2	6
18	Nature of finite-temperature transition in anisotropic pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Er</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	32

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19	Onsagerâ€™s Wien effect on a lattice. Nature Materials, 2013, 12, 1033-1037.	27.5	56
20	Flaws curb the flow. Nature Physics, 2013, 9, 8-9.	16.7	2
21	Dissipation-induced non-Gaussian energy fluctuations. Europhysics Letters, 2013, 102, 50004.	2.0	2
22	Crystal shape-dependent magnetic susceptibility and Curie law crossover in the spin ices Dy₂Ti₂O₇and Ho₂Ti₂O₇. Journal of Physics Condensed Matter, 2013, 25, 386002.	1.8	21
23	Topological-Sector Fluctuations and Curie-Law Crossover in Spin Ice. Physical Review X, 2013, 3, .	8.9	42
24	Spin-wave analysis of the transverse-field Ising model on the checkerboard lattice. Physical Review B, 2012, 85, .	3.2	17
25	Melting artificial spin ice. New Journal of Physics, 2012, 14, 035009.	2.9	115
26	Quantum Order by Disorder and Accidental Soft Mode in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Er</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 077204.	7.8	114
27	Creation and measurement of long-lived magnetic monopole currents in spin ice. Nature Physics, 2011, 7, 252-258.	16.7	126
28	Classical topological order in kagome ice. Journal of Physics Condensed Matter, 2011, 23, 164208.	1.8	24
29	Magnetic monopole dynamics in spin ice. Journal of Physics Condensed Matter, 2011, 23, 164222.	1.8	87
30	Spin Ice under Pressure: Symmetry Enhancement and Infinite Order Multicriticality. Physical Review Letters, 2010, 105, 087201.	7.8	39
31	Low-energy theory of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mo>â^’</mml:mo><mml:msup><mml:mi>t</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:mrow></mml:math>model at half-filling: Interaction strengths in cuprate superconductors and an effective spin-only description of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML". Physical Review B, 2009, 79, .	3.2	40
32	The Kasteleyn transition in three dimensions: Spin ice in a [100] field. Journal of Physics: Conference Series, 2009, 145, 012024.	0.4	11
33	Signature of magnetic monopole and Dirac string dynamics in spin ice. Nature Physics, 2009, 5, 258-261.	16.7	275
34	Site dilution in the half-filled one-band Hubbard model: Ring exchange, charge fluctuations, and application toLa2Cu1â^’x(Mg/Zn)xO4. Physical Review B, 2009, 79, .	3.2	9
35	Universal window for two-dimensional critical exponents. Journal of Physics Condensed Matter, 2008, 20, 275233.	1.8	127
36	Extreme statistics and volume fluctuations in a confined one-dimensional gas. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P07019.	2.3	0

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37	Three-Dimensional Kasteleyn Transition: Spin Ice in a [100] Field. Physical Review Letters, 2008, 100, 067207.	7.8	80
38	Origin of the approximate universality of distributions in equilibrium correlated systems. Europhysics Letters, 2006, 76, 1008-1014.	2.0	10
39	Ground state and low-lying excitations of the spin- XXZ model on the kagomÃ© lattice at magnetization. Physica B: Condensed Matter, 2005, 359-361, 1391-1393.	2.7	6
40	SPIN ICE. , 2005, , 367-456.		6
41	NÃ©el order, ring exchange, and charge fluctuations in the half-filled Hubbard model. Physical Review B, 2005, 72, .	3.2	40
42	Quantum kagomÃ© antiferromagnet in a magnetic field: Low-lying nonmagnetic excitations versus valence-bond crystal order. Physical Review B, 2005, 71, .	3.2	63
43	Criterion for universality-class-independent critical fluctuations: Example of the two-dimensional Ising model. Physical Review E, 2004, 70, 046112.	2.1	33
44	Soft modes in the easy plane pyrochlore antiferromagnet. Journal of Physics Condensed Matter, 2004, 16, S665-S671.	1.8	40
45	Extreme statistics of intensity fluctuations in nonequilibrium steady states. , 2004, , .		0
46	Er2Ti2O7:Evidence of quantum order by disorder in a frustrated antiferromagnet. Physical Review B, 2003, 68, .	3.2	208
47	Intermittency and Non-Gaussian Fluctuations of the Global Energy Transfer in Fully Developed Turbulence. Physical Review Letters, 2003, 90, 104501.	7.8	33
48	Statistics of extremal intensities for Gaussian interfaces. Physical Review E, 2003, 68, 056116.	2.1	41
49	CRITICAL FLUCTUATIONS IN 2D XY MAGNETS. Fractals, 2003, 11, 73-80.	3.7	1
50	From classical to quantum KagomÃ© antiferromagnet in a magnetic field. Physical Review B, 2002, 65, .	3.2	43
51	BramwelletÂal.Reply:. Physical Review Letters, 2002, 89, .	7.8	15
52	Relevance of soft modes for order parameter fluctuations in the two-dimensional XY model. Journal of Physics A, 2002, 35, 1231-1244.	1.6	12
53	Competition between exchange and anisotropy in a pyrochlore ferromagnet. Europhysics Letters, 2002, 57, 93-99.	2.0	23
54	Universal fluctuations of the Danube water level: A link with turbulence, criticality and company growth. Europhysics Letters, 2002, 57, 310-314.	2.0	36

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55	Surfing on a critical line: Rejuvenation without chaos, memory without a hierarchical phase space. Europhysics Letters, 2002, 58, 35-41.	2.0	36
56	Vortex corrections to universal scaling of magnetic fluctuations in 2D XY model. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 643-649.	2.6	3
57	Nonequilibrium critical dynamics of the two-dimensionalXYmodel. Journal of Physics A, 2001, 34, 1805-1824.	1.6	107
58	Magnetic fluctuations in the classicalXYmodel: The origin of an exponential tail in a complex system. Physical Review E, 2001, 63, 041106.	2.1	118
59	Universal magnetic fluctuations with a field-induced length scale. Physical Review E, 2001, 64, 036111.	2.1	28
60	Bramwellet al.Reply:. Physical Review Letters, 2001, 87, .	7.8	11
61	Frustrated order by disorder: The pyrochlore anti-ferromagnet with bond disorder. Canadian Journal of Physics, 2001, 79, 1365-1371.	1.1	9
62	Violation of ensemble equivalence in the antiferromagnetic mean-field XY model. European Physical Journal B, 2000, 16, 659-667.	1.5	37
63	Universal Fluctuations in Correlated Systems. Physical Review Letters, 2000, 84, 3744-3747.	7.8	225
64	Power fluctuations in a closed turbulent shear flow. Physical Review E, 1999, 60, R2452-R2455.	2.1	73
65	Liquid-Gas Critical Behavior in a Frustrated Pyrochlore Ferromagnet. Physical Review Letters, 1998, 81, 4496-4499.	7.8	148
66	Critical behaviour of the random field Ising model. Journal of Physics A, 1998, 31, 85-105.	1.6	4
67	Universal magnetic fluctuations in the two-dimensional XY model. Journal of Applied Physics, 1998, 83, 7234-7236.	2.5	22
68	Magnetization in Ultrathin Films: Critical Exponent Î² for the 2D XY Model with 4-Fold Crystal Fields. Modern Physics Letters B, 1997, 11, 139-148.	1.9	5
69	Magnetic fluctuations in a finite two-dimensional model. Journal of Physics A, 1997, 30, 8363-8378.	1.6	42
70	Spin Structure in Magnetic Multilayers with Rough Interfaces. Physical Review Letters, 1996, 76, 2583-2586.	7.8	4
71	Real space renormalization group analysis of the random field Ising model. Journal of Physics A, 1996, 29, L539-L545.	1.6	8
72	Comment on "Chain Formation in Low Density Dipolar Hard Spheres: A Monte Carlo Study". Physical Review Letters, 1995, 74, 202-202.	7.8	6

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73	The fluctuating surface Hamiltonian for the classical Kagome antiferromagnet. Journal of Physics Condensed Matter, 1995, 7, 3295-3299.	1.8	5
74	Static and Dynamic Magnetic Properties of Rb2CrCl4: Ideal 2D-XYBehaviour in a Layered Magnet. Journal of the Physical Society of Japan, 1995, 64, 3066-3071.	1.6	23
75	Can the universal jump be observed in twoâ€dimensionalXYmagnets?. Journal of Applied Physics, 1994, 75, 5955-5957.	2.5	16
76	Magnetization: A characteristic of the Kosterlitz-Thouless-Berezinskii transition. Physical Review B, 1994, 49, 8811-8814.	3.2	113
77	Temperature dependence ofXY-like order parameters in thin free-standing smectic liquid-crystal films. Physical Review E, 1993, 48, 625-627.	2.1	0
78	Magnetization and universal sub-critical behaviour in two-dimensional XY magnets. Journal of Physics Condensed Matter, 1993, 5, L53-L59.	1.8	197
79	Universality in twoâ€dimensional magnetic systems. Journal of Applied Physics, 1993, 73, 6096-6098.	2.5	52
80	KagomÃ© antiferromagnet with defects: Satisfaction, frustration, and spin folding in a random spin system. Physical Review Letters, 1993, 70, 3812-3815.	7.8	77
81	Hopping conductivity for localized electronic states Liouville space formalism. Physica B: Condensed Matter, 1992, 176, 319-326.	2.7	0
82	Hidden order in a frustrated system: Properties of the Heisenberg KagomÃ© antiferromagnet. Physical Review Letters, 1992, 68, 855-858.	7.8	390
83	The critical line of the 2-dimensional easy plane ferromagnet. Journal of Magnetism and Magnetic Materials, 1992, 117, 8-10.	2.3	1
84	Random bonds and random fields in two-dimensional orientational glasses. Journal of Physics Condensed Matter, 1991, 3, 6679-6694.	1.8	13
85	Induced Nearest-Neighbor Bond Orientational Ordering and Structural Transformation in a Two-Dimensional Liquid Crystal Model. Molecular Crystals and Liquid Crystals, 1991, 204, 177-188.	0.7	5
86	Induced nearest-neighbor bond-orientational ordering and director fluctuations in two-dimensional liquid-crystal models. Physical Review A, 1990, 41, 3377-3380.	2.5	5
87	Monte Carlo study of induced bond orientational ordering in two-dimensional liquid-crystal models. Physical Review A, 1990, 41, 6786-6795.	2.5	19
88	Monte Carlo Study of Bond and Molecular Orientational Ordering in Two-Dimensional Nematic Liquid-Crystal Systems. Europhysics Letters, 1989, 9, 539-544.	2.0	8
89	Anisotropic dispersive forces and orientational order. Physica Scripta, 1989, 39, 613-619.	2.5	9
90	A current-current correlation function approach to hopping conductivity. Journal of Physics Condensed Matter, 1989, 1, 557-568.	1.8	2

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91	Hopping thermo-electric power for localised electronic states. Journal of Physics C: Solid State Physics, 1987, 20, 2231-2241.	1.5	1
92	Hopping conductivity for localised electronic states. Journal of Physics C: Solid State Physics, 1987, 20, 2219-2229.	1.5	4
93	Correlated random walk on a bcc lattice with next-nearest-neighbor hops: Self-consistent decoupling approximation. Physical Review B, 1986, 34, 8533-8537.	3.2	2
94	Correlated random walks on two-sublattice systems. I. Theory. Physical Review B, 1986, 34, 3221-3232.	3.2	8
95	Correlated random walks on two-sublattice systems. II. Monte Carlo simulations. Physical Review B, 1986, 34, 3233-3237.	3.2	6