

Hildegard Meyer-Ortmanns

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,229
citations

430754

18
h-index

414303

32
g-index

81
all docs

81
docs citations

81
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transitions in quantum chromodynamics. <i>Reviews of Modern Physics</i> , 1996, 68, 473-598.	16.4	142
2	Order-by-disorder in classical oscillator systems. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	96
3	Monte Carlo renormalisation group studies of SU(3) lattice gauge theory. <i>Nuclear Physics B</i> , 1985, 257, 155-172.	0.9	80
4	SIMULATION OF CONSENSUS MODEL OF DEFFUANT et al. ON A BARABÁSI-ALBERT NETWORK. <i>International Journal of Modern Physics C</i> , 2004, 15, 241-246.	0.8	78
5	Self-similar scale-free networks and disassortativity. <i>Physical Review E</i> , 2005, 72, 045105.	0.8	61
6	Collective nonlinear dynamics and self-organization in decentralized power grids. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	57
7	Islanding the power grid on the transmission level: less connections for more security. <i>Scientific Reports</i> , 2016, 6, 34797.	1.6	40
8	Tuning the Shape of the Condensate in Spontaneous Symmetry Breaking. <i>Physical Review Letters</i> , 2009, 103, 080602.	2.9	32
9	Social balance as a satisfiability problem of computer science. <i>Physical Review E</i> , 2007, 75, 026106.	0.8	31
10	Surface tension from finite-volume vacuum tunneling in the 3D Ising model. <i>Journal of Statistical Physics</i> , 1990, 58, 185-198.	0.5	30
11	How sharp is the chiral crossover phenomenon for realistic meson masses?. <i>Physical Review D</i> , 1996, 53, 6586-6601.	1.6	30
12	IMMIGRATION, INTEGRATION AND GHETTO FORMATION. <i>International Journal of Modern Physics C</i> , 2003, 14, 311-320.	0.8	29
13	Entrainment of coupled oscillators on regular networks by pacemakers. <i>Physical Review E</i> , 2006, 73, 036218.	0.8	29
14	COMPETITION OF LANGUAGES AND THEIR HAMMING DISTANCE. <i>International Journal of Modern Physics C</i> , 2006, 17, 259-278.	0.8	25
15	On the role of frustration in excitable systems. <i>Chaos</i> , 2010, 20, 043111.	1.0	22
16	Mass condensation in one dimension with pair-factorized steady states. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P10021.	0.9	19
17	Mass sensitivity of chiral symmetry restoration at finite temperature. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 295, 255-262.	1.5	18
18	Pair-factorized steady states on arbitrary graphs. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 315003.	0.7	18

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19	Dynamics of phase transitions by hysteresis methods: Two-dimensional models. <i>Physical Review D</i> , 2004, 69, .	1.6	17
20	Synchronization of Rössler oscillators on scale-free topologies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 781-789.	1.2	17
21	Dynamically generated hierarchies in games of competition. <i>Physical Review E</i> , 2019, 99, 062116.	0.8	17
22	Variational methods in supersymmetric lattice field theory: The vacuum sector. <i>Physical Review D</i> , 1987, 36, 3788-3796.	1.6	15
23	Chiral symmetry restoration at finite temperature in the linear sigma-model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 321, 66-74.	1.5	14
24	Long-range response to transmission line disturbances in DC electricity grids. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2517-2525.	1.2	14
25	Reentrant synchronization and pattern formation in pacemaker-entrained Kuramoto oscillators. <i>Physical Review E</i> , 2006, 74, 026203.	0.8	13
26	A hierarchical heteroclinic network. <i>European Physical Journal: Special Topics</i> , 2018, 227, 1101-1115.	1.2	13
27	Predicting the separation of time scales in a heteroclinic network. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019, 4, 279-288.	0.9	13
28	Unexpected behavior of an order parameter for lattice gauge theories with matter fields. <i>Nuclear Physics B</i> , 1984, 230, 31-48.	0.9	12
29	Phase Transition between Synchronous and Asynchronous Updating Algorithms. <i>Journal of Statistical Physics</i> , 2007, 129, 593-603.	0.5	12
30	Curing critical links in oscillator networks as power flow models. <i>New Journal of Physics</i> , 2017, 19, 013002.	1.2	12
31	Chiral thermodynamics in the expansion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 311, 213-218.	1.5	10
32	Functional complexity measure for networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 337, 679-690.	1.2	10
33	Universality class of triad dynamics on a triangular lattice. <i>Physical Review E</i> , 2007, 75, 021118.	0.8	10
34	Physical Aging of Classical Oscillators. <i>Physical Review Letters</i> , 2014, 112, 094101.	2.9	10
35	Rock-paper-scissors played within competing domains in predator-prey games. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 113402.	0.9	10
36	Extreme prices in electricity balancing markets from an approach of statistical physics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 490, 1324-1334.	1.2	10

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37	Critical phenomena with convergent series expansions in a finite volume. Journal of Statistical Physics, 1997, 87, 755-798.	0.5	9
38	CATASTROPHIC SENESENCE OF THE PACIFIC SALMON WITHOUT MUTATION-ACCUMULATION. International Journal of Modern Physics C, 2001, 12, 319-323.	0.8	9
39	Dynamics of phase transitions: The 3D 3-state Potts model. Physical Review D, 2004, 70, .	1.6	9
40	Noise as control parameter in networks of excitable media: Role of the network topology. Physical Review E, 2010, 82, 036104.	0.8	9
41	Dynamics of nested, self-similar winnerless competition in time and space. Physical Review Research, 2019, 1, .	1.3	8
42	CHIRAL SYMMETRY RESTORATION IN THE LINEAR SIGMA MODEL. International Journal of Modern Physics C, 1992, 03, 993-1009.	0.8	7
43	Dynamical Inference of Simple Heteroclinic Networks. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	0.7	7
44	Monte Carlo study of glueball masses in SU(2). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 145, 251-255.	1.5	6
45	The vortex free energy in the screening phase of the Z(2) Higgs model. Nuclear Physics B, 1984, 235, 115-122.	0.9	6
46	On the temperature dependent effective potential of scalar field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 297, 331-336.	1.5	6
47	Stochastic description of a bistable frustrated unit. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01009.	0.9	6
48	Proposal of a new upgrading procedure for Monte Carlo experiments. Zeitschrift für Physik C-Particles and Fields, 1985, 27, 553-558.	1.5	5
49	Spinodal decomposition and the deconfining phase transition. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 587-589.	0.5	5
50	Networks of coupled circuits: From a versatile toggle switch to collective coherent behavior. Chaos, 2014, 24, 043118.	1.0	5
51	Minority games played by arbitrageurs on the energy market. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125927.	1.2	5
52	The monotony criterion for a finite size scaling analysis of phase transitions. Journal of Mathematical Physics, 1998, 39, 5316-5323.	0.5	4
53	STUDY OF PHASE SEPARATION IN A FIRST-ORDER PHASE TRANSITION: NUCLEATION VERSUS SPINODAL DECOMPOSITION. International Journal of Modern Physics C, 1999, 10, 1261-1269.	0.8	4
54	DYNAMICAL LINKED CLUSTER EXPANSIONS: A NOVEL EXPANSION SCHEME FOR POINT-TO-POINT INTERACTIONS. International Journal of Modern Physics A, 1999, 14, 947-985.	0.5	4

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55	A note on limitations of standard thermodynamics. <i>Annalen Der Physik</i> , 2002, 11, 457.	0.9	4
56	Dynamical linked cluster expansions with applications to disordered systems. <i>European Physical Journal B</i> , 2002, 27, 549-558.	0.6	4
57	Breaking of time-translation invariance in Kuramoto dynamics with multiple time scales. <i>Europhysics Letters</i> , 2017, 118, 40006.	0.7	4
58	Coupled heteroclinic networks in disguise. <i>Chaos</i> , 2020, 30, 083113.	1.0	4
59	Phase structure of O(N)-symmetric \mathbb{Z}_2 models at small and intermediate N. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 193, 489-494.	1.5	3
60	Model A Dynamics and the Deconfining Phase Transition. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005, 140, 571-573.	0.5	3
61	Preferential attachment renders an evolving network of populations robust against crashes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1535-1545.	1.2	3
62	Caveats in modeling a common motif in genetic circuits. <i>Physical Review E</i> , 2013, 87, 062706.	0.8	3
63	Open Boundary Conditions in Stochastic Transport Processes with Pair-factorized Steady States. <i>Physics Procedia</i> , 2014, 57, 77-81.	1.2	3
64	Long-period clocks from short-period oscillators. <i>Chaos</i> , 2017, 27, 083103.	1.0	3
65	State estimation of power flows for smart grids via belief propagation. <i>Physical Review E</i> , 2020, 102, 012311.	0.8	3
66	Emerging criticality at bifurcation points in heteroclinic dynamics. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
67	Boundary-driveâ€“induced formation of aggregate condensates in stochastic transport with short-range interactions. <i>Europhysics Letters</i> , 2015, 111, 30001.	0.7	2
68	Rare extinction events in cyclic predatorâ€“prey games. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 235001.	0.7	2
69	Lattice formulation of the superstring. <i>Physical Review D</i> , 1986, 33, 3155-3158.	1.6	1
70	Phase separation in a weak first-order phase transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 320-324.	1.2	1
71	Chaotic and periodic spreading dynamics in discrete small-world networks. , 0, , .		1
72	The cavity method for minority games between arbitrageurs on financial markets. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022, 2022, 043403.	0.9	1

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73	Belief propagation for supply networks: efficient clustering of their factor graphs. European Physical Journal B, 2022, 95, .	0.6	1
74	Applications of Zimmermann's reduction of couplings in \mathbb{Z}_4 models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 186, 195-199.	1.5	0
75	Functional complexity index for metabolic and genetic networks. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 123-131.	1.2	0
76	Impact of the updating scheme on stationary states of networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224010.	0.7	0
77	Mass condensation on networks. Journal of Physics: Conference Series, 2010, 246, 012011.	0.3	0
78	On the arrest of synchronized oscillations. Europhysics Letters, 2015, 109, 10001.	0.7	0
79	Demographic Fluctuations and Inherent Time Scales in a Genetic Circuit. Springer Proceedings in Complexity, 2013, , 879-892.	0.2	0
80	10.1063/1.4997181.1. , 2017, , .		0