Hildegard Meyer-Ortmanns

List of Publications by Year
in descending order

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	Collective nonlinear dynamics and self-organization in decentralized power grids. Reviews of Modern Physics, 2022, 94, .	16.4	57
2	The cavity method for minority games between arbitrageurs on financial markets. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 043403.	0.9	1
3	Belief propagation for supply networks: efficient clustering of their factor graphs. European Physical Journal B, 2022, 95, .	0.6	1
4	Rare extinction events in cyclic predatorâ€“prey games. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 235001.	0.7	2
5	Minority games played by arbitrageurs on the energy market. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125927.	1.2	5
6	State estimation of power flows for smart grids via belief propagation. Physical Review E, 2020, 102, 012311.	0.8	3
7	Coupled heteroclinic networks in disguise. Chaos, 2020, 30, 083113.	1.0	4
8	Emerging criticality at bifurcation points in heteroclinic dynamics. Physical Review Research, 2020, 2, .	1.3	3
9	Dynamically generated hierarchies in games of competition. Physical Review E, 2019, 99, 062116.	0.8	17
10	Dynamical Inference of Simple Heteroclinic Networks. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	0.7	7
11	Dynamics of nested, self-similar winnerless competition in time and space. Physical Review Research, 2019, 1, .	1.3	8
12	Predicting the separation of time scales in a heteroclinic network. Applied Mathematics and Nonlinear Sciences, 2019, 4, 279-288.	0.9	13
13	Extreme prices in electricity balancing markets from an approach of statistical physics. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 1324-1334.	1.2	10
14	A hierarchical heteroclinic network. European Physical Journal: Special Topics, 2018, 227, 1101-1115.	1.2	13
15	Breaking of time-translation invariance in Kuramoto dynamics with multiple time scales. Europhysics Letters, 2017, 118, 40006.	0.7	4
16	Long-period clocks from short-period oscillators. Chaos, 2017, 27, 083103.	1.0	3
17	Curing critical links in oscillator networks as power flow models. New Journal of Physics, 2017, 19, 013002.	1.2	12
18	10.1063/1.4997181.1. , 2017, , .		0

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19	Rock-paper-scissors played within competing domains in predator-prey games. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 113402.	0.9	10
20	Islanding the power grid on the transmission level: less connections for more security. Scientific Reports, 2016, 6, 34797.	1.6	40
21	Boundary-driveâ€“induced formation of aggregate condensates in stochastic transport with short-range interactions. Europhysics Letters, 2015, 111, 30001.	0.7	2
22	On the arrest of synchronized oscillations. Europhysics Letters, 2015, 109, 10001.	0.7	0
23	Physical Aging of Classical Oscillators. Physical Review Letters, 2014, 112, 094101.	2.9	10
24	Long-range response to transmission line disturbances in DC electricity grids. European Physical Journal: Special Topics, 2014, 223, 2517-2525.	1.2	14
25	Networks of coupled circuits: From a versatile toggle switch to collective coherent behavior. Chaos, 2014, 24, 043118.	1.0	5
26	Open Boundary Conditions in Stochastic Transport Processes with Pair-factorized Steady States. Physics Procedia, 2014, 57, 77-81.	1.2	3
27	Order-by-disorder in classical oscillator systems. European Physical Journal B, 2013, 86, 1.	0.6	96
28	Caveats in modeling a common motif in genetic circuits. Physical Review E, 2013, 87, 062706.	0.8	3
29	Demographic Fluctuations and Inherent Time Scales in a Genetic Circuit. Springer Proceedings in Complexity, 2013, , 879-892.	0.2	0
30	Stochastic description of a bistable frustrated unit. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01009.	0.9	6
31	Mass condensation on networks. Journal of Physics: Conference Series, 2010, 246, 012011.	0.3	0
32	Noise as control parameter in networks of excitable media: Role of the network topology. Physical Review E, 2010, 82, 036104.	0.8	9
33	On the role of frustration in excitable systems. Chaos, 2010, 20, 043111.	1.0	22
34	Tuning the Shape of the Condensate in Spontaneous Symmetry Breaking. Physical Review Letters, 2009, 103, 080602.	2.9	32
35	Mass condensation in one dimension with pair-factorized steady states. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P10021.	0.9	19
36	Pair-factorized steady states on arbitrary graphs. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 315003.	0.7	18

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37	Preferential attachment renders an evolving network of populations robust against crashes. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1535-1545.	1.2	3
38	Impact of the updating scheme on stationary states of networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224010.	0.7	0
39	Social balance as a satisfiability problem of computer science. Physical Review E, 2007, 75, 026106.	0.8	31
40	Universality class of triad dynamics on a triangular lattice. Physical Review E, 2007, 75, 021118.	0.8	10
41	Phase Transition between Synchronous and Asynchronous Updating Algorithms. Journal of Statistical Physics, 2007, 129, 593-603.	0.5	12
42	COMPETITION OF LANGUAGES AND THEIR HAMMING DISTANCE. International Journal of Modern Physics C, 2006, 17, 259-278.	0.8	25
43	Synchronization of RÃ¶ssler oscillators on scale-free topologies. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 781-789.	1.2	17
44	Entrainment of coupled oscillators on regular networks by pacemakers. Physical Review E, 2006, 73, 036218.	0.8	29
45	Reentrant synchronization and pattern formation in pacemaker-entrained Kuramoto oscillators. Physical Review E, 2006, 74, 026203.	0.8	13
46	Functional complexity index for metabolic and genetic networks. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 123-131.	1.2	0
47	Model A Dynamics and the Deconfining Phase Transition. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 571-573.	0.5	3
48	Self-similar scale-free networks and disassortativity. Physical Review E, 2005, 72, 045105.	0.8	61
49	Dynamics of phase transitions: The 3D 3-state Potts model. Physical Review D, 2004, 70, .	1.6	9
50	Dynamics of phase transitions by hysteresis methods: Two-dimensional models. Physical Review D, 2004, 69, .	1.6	17
51	Spinodal decomposition and the deconfining phase transition. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 587-589.	0.5	5
52	Functional complexity measure for networks. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 679-690.	1.2	10
53	SIMULATION OF CONSENSUS MODEL OF DEFFUANT et al. ON A BARABÃŠIâ€“ALBERT NETWORK. International Journal of Modern Physics C, 2004, 15, 241-246.	0.8	78
54	IMMIGRATION, INTEGRATION AND GHETTO FORMATION. International Journal of Modern Physics C, 2003, 14, 311-320.	0.8	29

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55	A note on limitations of standard thermodynamics. Annalen Der Physik, 2002, 11, 457.	0.9	4
56	Dynamical linked cluster expansions with applications to disordered systems. European Physical Journal B, 2002, 27, 549-558.	0.6	4
57	CATASTROPHIC SENESCENCE OF THE PACIFIC SALMON WITHOUT MUTATION-ACCUMULATION. International Journal of Modern Physics C, 2001, 12, 319-323.	0.8	9
58	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
59	DYNAMICAL LINKED CLUSTER EXPANSIONS: A NOVEL EXPANSION SCHEME FOR POINTâ€“LINKâ€“POINT INTERACTIONS. International Journal of Modern Physics A, 1999, 14, 947-985.	0.5	4
60	Phase separation in a weak first-order phase transition. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 320-324.	1.2	1
61	The monotony criterion for a finite size scaling analysis of phase transitions. Journal of Mathematical Physics, 1998, 39, 5316-5323.	0.5	4
62	Critical phenomena with convergent series expansions in a finite volume. Journal of Statistical Physics, 1997, 87, 755-798.	0.5	9
63	Phase transitions in quantum chromodynamics. Reviews of Modern Physics, 1996, 68, 473-598.	16.4	142
64	How sharp is the chiral crossover phenomenon for realistic meson masses?. Physical Review D, 1996, 53, 6586-6601.	1.6	30
65	Chiral symmetry restoration at finite temperature in the linear sigma-model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 321, 66-74.	1.5	14
66	Chiral thermodynamics in the expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 213-218.	1.5	10
67	CHIRAL SYMMETRY RESTORATION IN THE LINEAR SIGMA MODEL. International Journal of Modern Physics C, 1992, 03, 993-1009.	0.8	7
68	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
69	Mass sensitivity of chiral symmetry restoration at finite temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 255-262.	1.5	18
70	Surface tension from finite-volume vacuum tunneling in the 3D Ising model. Journal of Statistical Physics, 1990, 58, 185-198.	0.5	30
71	Variational methods in supersymmetric lattice field theory: The vacuum sector. Physical Review D, 1987, 36, 3788-3796.	1.6	15
72	Applications of Zimmermann's reduction of couplings in Ï†4 models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 186, 195-199.	1.5	0

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73	Phase structure of O(N)-symmetric Ï†63 models at small and intermediate N. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 193, 489-494.	1.5	3
74	Lattice formulation of the superstring. Physical Review D, 1986, 33, 3155-3158.	1.6	1
75	Proposal of a new upgrading procedure for Monte Carlo experiments. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1985, 27, 553-558.	1.5	5
76	Monte Carlo renormalisation group studies of SU(3) lattice gauge theory. Nuclear Physics B, 1985, 257, 155-172.	0.9	80
77	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
78	The vortex free energy in the screening phase of the Z(2) Higgs model. Nuclear Physics B, 1984, 235, 115-122.	0.9	6
79	Unexpected behavior of an order parameter for lattice gauge theories with matter fields. Nuclear Physics B, 1984, 230, 31-48.	0.9	12
80	Chaotic and periodic spreading dynamics in discrete small-world networks. , 0, , .		1