

# Malte Henkel

## List of Publications by Year in descending order

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110  
papers

2,995  
citations

186265

28  
h-index

189892

50  
g-index

111  
all docs

111  
docs citations

111  
times ranked

943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformal Invariance and Critical Phenomena. , 1999, , .		243
2	Schrödinger invariance and strongly anisotropic critical systems. Journal of Statistical Physics, 1994, 75, 1023-1061.	1.2	240
3	Non-Equilibrium Phase Transitions. Theoretical and Mathematical Physics (United States), 2010, , .	0.0	232
4	Phenomenology of local scale invariance: from conformal invariance to dynamical scaling. Nuclear Physics B, 2002, 641, 405-486.	2.5	156
5	Schrödinger invariance and spacetime symmetries. Nuclear Physics B, 2003, 660, 407-435.	2.5	127
6	Local Scale Invariance and Strongly Anisotropic Equilibrium Critical Systems. Physical Review Letters, 1997, 78, 1940-1943.	7.8	99
7	The statistical mechanics of the coagulation-diffusion process with a stochastic reset. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 045002.	2.1	93
8	Aging, Phase Ordering, and Conformal Invariance. Physical Review Letters, 2001, 87, 265701.	7.8	92
9	Critical properties of the reaction-diffusion model $A \rightarrow B + C$ . Physical Review E, 2001, 63, 036101.	2.1	81
10	Reaction-Diffusion Processes from Equivalent Integrable Quantum Chains. Annals of Physics, 1997, 259, 163-231.	2.8	80
11	The non-equilibrium phase transition of the pair-contact process with diffusion. Journal of Physics A, 2004, 37, R117-R159.	1.6	72
12	Local scale-invariance and ageing in noisy systems. Nuclear Physics B, 2004, 688, 217-265.	2.5	70
13	Response of non-equilibrium systems with long-range initial correlations. Journal of Physics A, 2002, 35, 5575-5590.	1.6	61
14	Boundary-induced phase transitions in equilibrium and non-equilibrium systems. Physica A: Statistical Mechanics and Its Applications, 1994, 206, 187-195.	2.6	57
15	The Ising quantum chain with defects (I). The exact solution. Nuclear Physics B, 1989, 314, 609-624.	2.5	50
16	Supersymmetric extensions of Schrödinger-invariance. Nuclear Physics B, 2006, 746, 155-201.	2.5	50
17	Exact solution of a reaction-diffusion process with three-site interactions. Journal of Physics A, 2001, 34, 1561-1568.	1.6	46
18	Anisotropic Scaling and Generalized Conformal Invariance at Lifshitz Points. Physical Review Letters, 2001, 87, 125702.	7.8	44

#	ARTICLE	IF	CITATIONS
19	Local scale invariance as dynamical space-time symmetry in phase-ordering kinetics. <i>Physical Review E</i> , 2003, 68, 065101.	2.1	43
20	Critical phenomena: 150 years since Cagniard de la Tour. <i>Journal of Physical Studies</i> , 2009, 13, .	0.5	43
21	Phenomenology of aging in the Kardar-Parisi-Zhang equation. <i>Physical Review E</i> , 2012, 85, 030102.	2.1	41
22	Scaling of the linear response in simple aging systems without disorder. <i>Physical Review E</i> , 2004, 69, 056109.	2.1	40
23	The exotic conformal Galilei algebra and nonlinear partial differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 369, 120-132.	1.0	34
24	Critical exponents of defective Ising models and the U(1) Kac-Moody-Virasoro algebras. <i>Nuclear Physics B</i> , 1987, 285, 29-44.	2.5	33
25	Superuniversality in phase-ordering disordered ferromagnets. <i>Physical Review B</i> , 2008, 78, .	3.2	33
26	Ageing phenomena without detailed balance: the contact process. <i>Journal of Physics A</i> , 2004, 37, 10479-10495.	1.6	32
27	On the universality of the fluctuation-dissipation ratio in non-equilibrium critical dynamics. <i>Journal of Physics A</i> , 2004, 37, 591-604.	1.6	32
28	On the identification of quasiprimary scaling operators in local scale-invariance. <i>Journal of Physics A</i> , 2006, 39, L589-L598.	1.6	32
29	Universal finite-size scaling amplitudes in anisotropic scaling. <i>Journal of Physics A</i> , 2001, 34, 3333-3350.	1.6	30
30	Ageing in the critical contact process: a Monte Carlo study. <i>Journal of Physics A</i> , 2004, 37, 10497-10512.	1.6	27
31	Dynamical symmetries of semi-linear Schrödinger and diffusion equations. <i>Nuclear Physics B</i> , 2005, 723, 205-233.	2.5	24
32	THE POINCARÉ ALGEBRA IN THE CONTEXT OF AGEING SYSTEMS: LIE STRUCTURE, REPRESENTATIONS, APPELL SYSTEMS AND COHERENT STATES. <i>Confluentes Mathematici</i> , 2012, 04, 1250006.	0.2	23
33	Exact correlation function at the Lifshitz points of the spherical model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 195, 577-602.	2.6	21
34	Phase diagram of branched polymer collapse. <i>Physical Review E</i> , 1996, 53, 3662-3672.	2.1	21
35	Ageing without detailed balance in the bosonic contact and pair-contact processes: exact results. <i>Journal of Physics A</i> , 2005, 38, 6623-6640.	1.6	20
36	Local scale invariances in the bosonic contact and pair-contact processes. <i>Journal of Physics A</i> , 2006, 39, 4095-4118.	1.6	20

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37	Quantum phase transition in the spin-anisotropic quantum spherical model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P07006.	2.3	20
38	Integrable chiral Zn quantum chains and a new class of trigonometric sums. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 138, 105-109.	2.1	19
39	On non-linear partial differential equations with an infinite-dimensional conditional symmetry. <i>Journal of Mathematical Analysis and Applications</i> , 2004, 298, 487-500.	1.0	19
40	Kinetics of the long-range spherical model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 7389-7409.	2.1	19
41	Aging in the Long-Range Ising Model. <i>Physical Review Letters</i> , 2020, 125, 180601.	7.8	19
42	Finite-size effects in layered magnetic systems. <i>Physical Review B</i> , 1997, 55, 6429-6439.	3.2	18
43	Ageing, dynamical scaling and its extensions in many-particle systems without detailed balance. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 065101.	1.8	18
44	Spherical model of growing interfaces. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P05022.	2.3	17
45	On logarithmic extensions of local scale-invariance. <i>Nuclear Physics B</i> , 2013, 869, 282-302.	2.5	16
46	On non-local representations of the ageing algebra. <i>Nuclear Physics B</i> , 2011, 847, 612-627.	2.5	15
47	Dynamical Symmetries and Causality in Non-Equilibrium Phase Transitions. <i>Symmetry</i> , 2015, 7, 2108-2133.	2.2	15
48	The kinetic spherical model in a magnetic field. <i>Journal of Physics A</i> , 2003, 36, 8983-9008.	1.6	14
49	New mechanism for mass gap scaling and transfer-matrix study for (1+1)D directed percolation. <i>Physical Review Letters</i> , 1990, 65, 1777-1780.	7.8	13
50	Local Scale Invariance in Ageing Phenomena. <i>Advances in Solid State Physics</i> , 2004, , 389-400.	0.8	13
51	From Conformal Invariance towards Dynamical Symmetries of the Collisionless Boltzmann Equation. <i>Symmetry</i> , 2015, 7, 1595-1612.	2.2	13
52	Lindblad dynamics of a quantum spherical spin. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 125001.	2.1	13
53	From dynamical scaling to local scale-invariance: a tutorial. <i>European Physical Journal: Special Topics</i> , 2017, 226, 605-625.	2.6	13
54	ON THE TWO-POINT CORRELATION FUNCTION IN DYNAMICAL SCALING AND SCHRÖDINGER INVARIANCE. <i>International Journal of Modern Physics C</i> , 1992, 03, 1011-1017.	1.7	12

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55	Exact two-time correlation and response functions in the one-dimensional coagulation–diffusion process by the empty-interval method. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P02030.	2.3	12
56	SCHRÄ–DINGER INVARIANCE IN DISCRETE STOCHASTIC SYSTEMS. <i>International Journal of Modern Physics B</i> , 1994, 08, 3487-3499.	2.0	11
57	Lindblad dynamics of the quantum spherical model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 013103.	2.3	11
58	On the scaling and ageing behaviour of the alternating susceptibility in spin glasses and local scale invariance. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1899-S1913.	1.8	10
59	Ageing in bosonic particle-reaction models with long-range transport. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 395004.	2.1	10
60	Exact correlations in the one-dimensional coagulation–diffusion process investigated by the empty-interval method. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P04002.	2.3	10
61	FenÃ–menos crÃ–ticos: 150 anos desde Cagniard de la Tour. <i>Revista Brasileira De Ensino De Fisica</i> , 2009, 31, 2602.1-2602.4.	0.2	9
62	Non-local representations of the ageing algebra in higher dimensions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 245004.	2.1	9
63	Logarithmic exotic conformal Galilean algebras. <i>Nuclear Physics B</i> , 2014, 879, 292-317.	2.5	9
64	Meta-conformal invariance and the boundedness of two-point correlation functions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 47LT01.	2.1	8
65	Non-Local Meta-Conformal Invariance, Diffusion-Limited Erosion and the XXZ Chain. <i>Symmetry</i> , 2017, 9, 2.	2.2	8
66	Autocorrelation functions in phase-ordering kinetics from local scale invariance. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P07015-P07015.	2.3	8
67	Anisotropic scaling and generalized conformal invariance at Lifshitz points. <i>Computer Physics Communications</i> , 2002, 147, 419-422.	7.5	7
68	Reply to ‘‘Comment on ‘‘Scaling of the linear response in simple aging systems without disorder’’’. <i>Physical Review E</i> , 2005, 72, .	2.1	7
69	Logarithmic correlators or responses in non-relativistic analogues of conformal invariance. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 494004.	2.1	7
70	Dynamical universality of the contact process. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 125003.	2.1	7
71	On integral representations and asymptotics of some hypergeometric functions in two variables. <i>Integral Transforms and Special Functions</i> , 2018, 29, 95-112.	1.2	7
72	Axiomatic construction of quantum Langevin equations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 053101.	2.3	7

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73	Mass spectrum of the two-dimensional tricritical Ising model in an external magnetic field. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 247, 567-570.	4.1	6
74	Intermittency studies in directed bond percolation. <i>Nuclear Physics B</i> , 1993, 390, 637-652.	2.5	6
75	Domain walls in the quantum transverse Ising model. <i>Physical Review B</i> , 1995, 52, 4371-4388.	3.2	6
76	Kinetics of phase separation in the critical spherical model and local scale invariance. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P01012-P01012.	2.3	6
77	Antiferromagnetic majority voter model on square and honeycomb lattices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 444, 897-904.	2.6	6
78	Infinite-dimensional meta-conformal Lie algebras in one and two spatial dimensions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 084009.	2.3	6
79	Mass spectrum of the 2D Ashkin-Teller model in an external magnetic field. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 249, 463-466.	4.1	5
80	Finite-size scaling and universality in the spin-1 quantum XY chain. <i>Journal of Physics A</i> , 1996, 29, 1359-1365.	1.6	5
81	Lattice two-point functions and conformal invariance. <i>Journal of Physics A</i> , 1998, 31, 2503-2507.	1.6	5
82	Competition between dynamic and thermal relaxation in non-equilibrium critical spin systems above the critical point. <i>Journal of Physics A</i> , 2003, 36, 1249-1265.	1.6	5
83	Non-Markovian global persistence in phase ordering kinetics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P12012.	2.3	4
84	Exactly solvable models of growing interfaces and lattice gases: the Arcetri models, ageing and logarithmic sub-ageing. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 123206.	2.3	4
85	Local Scale-Invariance in Disordered Systems. , 2008, , 107-146.		4
86	Causality from Dynamical Symmetry: An Example from Local Scale-Invariance. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 511-531.	0.2	4
87	Phase-ordering kinetics: ageing and local scale-invariance. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	3
88	Lie symmetries of semi-linear Schrödinger equations and applications. <i>Journal of Physics: Conference Series</i> , 2006, 40, 144-149.	0.4	3
89	Kinetics of a non-Glauberian Ising model: global observables and exact results. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P03023.	2.3	3
90	Non-local meta-conformal invariance in diffusion-limited erosion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 49LT02.	2.1	3

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91	Physical Ageing and New Representations of Some Lie Algebras of Local Scale-Invariance. Springer Proceedings in Mathematics and Statistics, 2014, , 33-50.	0.2	3
92	Non-equilibrium dynamics of the open quantum $O(n)$ -model with non-Markovian noise: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 103105.	2.3	3
93	AGEING, DYNAMICAL SCALING AND CONFORMAL INVARIANCE. International Journal of Modern Physics A, 2004, 19, 2207-2215.	1.5	2
94	Exact correlation functions in particle-reaction models with immobile particles. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11006.	2.3	2
95	Crossover between diffusion-limited and reaction-limited regimes in the coagulation–diffusion process. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 425002.	2.1	2
96	Aging and equilibration in bistable contagion dynamics. Physical Review E, 2020, 102, 042308.	2.1	2
97	ON THE DYNAMICAL SYMMETRIC ALGEBRA OF AGEING: LIE STRUCTURE, REPRESENTATIONS AND APPELL SYSTEMS. , 2007, , .		2
98	Infinite-Dimensional Metaconformal Symmetries: 1D Diffusion-Limited Erosion and Ballistic Transport in $(1+2)$ Dimensions. Springer Proceedings in Mathematics and Statistics, 2018, , 113-135.	0.2	2
99	Meta-conformal Invariance in the Directed Glauber-Ising Chain. Springer Proceedings in Mathematics and Statistics, 2020, , 463-471.	0.2	2
100	Boundedness of meta-conformal two-point functions in one and two spatial dimensions. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 475001.	2.1	2
101	Statistical Physics of Ageing Phenomena and the Glass Transition. Journal of Physics: Conference Series, 2006, 40, .	0.4	1
102	A Short Introduction to Conformal Invariance. Lecture Notes in Physics, 2012, , 1-49.	0.7	1
103	Boundary crossover in semi-infinite non-equilibrium growth processes. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02018.	2.3	1
104	Non-Local Space-Time Transformations Generated from the Ageing Algebra. Springer Proceedings in Mathematics and Statistics, 2013, , 369-379.	0.2	1
105	An alternative order-parameter for non-equilibrium generalized spin models on honeycomb lattices. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 165002.	2.1	0
106	CONFORMAL ALGEBRAS AND DEFECTS IN THE QUANTUM ISING CHAIN. , 1989, , 127-145.		0
107	SCHRÖDINGER INVARIANCE IN DISCRETE STOCHASTIC SYSTEMS. , 1995, , 39-51.		0
108	Kinetics of Interface Growth: Physical Ageing and Dynamical Symmetries. Springer Proceedings in Mathematics and Statistics, 2016, , 53-65.	0.2	0

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109	Conformal Invariance of the 1D Collisionless Boltzmann Equation. Springer Proceedings in Mathematics and Statistics, 2016, , 453-463.	0.2	0
110	Meta-conformal Invariance and Their Covariant Correlation Functions. Springer Proceedings in Mathematics and Statistics, 2020, , 65-81.	0.2	0