

# Per Arne Rikvold

## List of Publications by Year in descending order

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207  
papers

5,319  
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81743

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114278

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210  
docs citations

210  
times ranked

2204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable lifetimes in a kinetic Ising model: Dependence on field and system size. Physical Review E, 1994, 49, 5080-5090.	0.8	218
2	Kinetic Ising Model in an Oscillating Field: Finite-Size Scaling at the Dynamic Phase Transition. Physical Review Letters, 1998, 81, 834-837.	2.9	204
3	Dynamic phase transition, universality, and finite-size scaling in the two-dimensional kinetic Ising model in an oscillating field. Physical Review E, 2000, 63, 016120.	0.8	136
4	Kinetic Ising model in an oscillating field: Avrami theory for the hysteretic response and finite-size scaling for the dynamic phase transition. Physical Review E, 1999, 59, 2710-2729.	0.8	125
5	Suppressing Roughness of Virtual Times in Parallel Discrete-Event Simulations. Science, 2003, 299, 677-679.	6.0	125
6	Effects of D-strain, g-strain, and dipolar interactions on EPR linewidths of the molecular magnets Fe <sub>8</sub> and Mn <sub>12</sub> . Physical Review B, 2001, 65, .	1.1	121
7	Evidence for a dynamic phase transition in $\text{Co}_{1-x}\text{Mn}_x$ multilayers. Physical Review B, 2008, 78, .	1.1	118
8	Absence of first-order transition and tricritical point in the dynamic phase diagram of a spatially extended bistable system in an oscillating field. Physical Review E, 2002, 66, 056127.	0.8	116
9	Realization of the mean-field universality class in spin-crossover materials. Physical Review B, 2008, 77, .	1.1	113
10	Test of the Kolmogorov-Johnson-Mehl-Avrami picture of metastable decay in a model with microscopic dynamics. Physical Review B, 1999, 59, 9053-9069.	1.1	96
11	Stochastic hysteresis and resonance in a kinetic Ising system. Physical Review E, 1998, 57, 6512-6533.	0.8	83
12	Scaling Function for the Structure Factor in First-Order Phase Transitions. Physical Review Letters, 1982, 49, 286-289.	2.9	81
13	Underpotential deposition of Cu on Au(111) in sulfate-containing electrolytes: A theoretical and experimental study. Journal of Chemical Physics, 1996, 104, 5699-5712.	1.2	80
14	From Massively Parallel Algorithms and Fluctuating Time Horizons to Nonequilibrium Surface Growth. Physical Review Letters, 2000, 84, 1351-1354.	2.9	77
15	Finite-size scaling study of a lattice-gas model for oxygen chemisorbed on tungsten. Physical Review B, 1984, 29, 6285-6294.	1.1	72
16	Dynamic phase transition in a time-dependent Ginzburg-Landau model in an oscillating field. Physical Review E, 2001, 63, 036109.	0.8	70
17	Finite-size-scaling study of a two-dimensional lattice-gas model with a tricritical point. Physical Review B, 1983, 28, 2686-2692.	1.1	69
18	Simulations of a stochastic model for cluster growth on a square lattice. Physical Review A, 1982, 26, 647-650.	1.0	68

#	ARTICLE	IF	CITATIONS
19	Magnetization switching in nanoscale ferromagnetic grains: description by a kinetic Ising model. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 150, 37-50.	1.0	68
20	Numerical investigation of a model for oxygen ordering in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Physical Review B</i> , 1990, 41, 8772-8791.	1.1	66
21	Langevin simulation of thermally activated magnetization reversal in nanoscale pillars. <i>Physical Review B</i> , 2001, 64, .	1.1	65
22	Static and dynamic Monte Carlo simulations of Br electrodeposition on Ag(100). <i>Surface Science</i> , 2001, 471, 125-142.	0.8	63
23	Macroscopic nucleation phenomena in continuum media with long-range interactions. <i>Scientific Reports</i> , 2011, 1, 162.	1.6	61
24	D-dimensional interpenetrable-sphere models of random two-phase media: Microstructure and an application to chromatography. <i>Journal of Colloid and Interface Science</i> , 1985, 108, 158-173.	5.0	60
25	Speckle from phase-ordering systems. <i>Physical Review E</i> , 1997, 56, 6601-6612.	0.8	60
26	Role of dipolar and exchange interactions in the positions and widths of EPR transitions for the single-molecule magnets $\text{Fe}_8$ and $\text{Mn}_{12}$ . <i>Physical Review B</i> , 2002, 66, .	1.1	58
27	Punctuated equilibria and 1/f noise in a biological coevolution model with individual-based dynamics. <i>Physical Review E</i> , 2003, 68, 031913.	0.8	58
28	Three-state lattice gas on a triangular lattice as a model for multicomponent adsorption. <i>Surface Science</i> , 1988, 203, 500-524.	0.8	55
29	Finite-size scaling analysis of the $S=1$ Ising model on the triangular lattice. <i>Physical Review B</i> , 1988, 38, 6741-6750.	1.1	55
30	Phase diagram for the antiferromagnetic Blume-Capel model near tricriticality. <i>Physical Review B</i> , 1992, 45, 7237-7243.	1.1	53
31	Parallelization of a Dynamic Monte Carlo Algorithm: A Partially Rejection-Free Conservative Approach. <i>Journal of Computational Physics</i> , 1999, 153, 488-508.	1.9	52
32	Porosity and specific surface for interpenetrable sphere models of two-phase random media. <i>Journal of Chemical Physics</i> , 1985, 82, 1014-1020.	1.2	50
33	Computational lattice-gas modeling of the electrosorption of small molecules and ions. <i>Surface Science</i> , 1995, 335, 389-400.	0.8	48
34	Effects of boundary conditions on magnetization switching in kinetic Ising models of nanoscale ferromagnets. <i>Physical Review B</i> , 1997, 55, 11521-11540.	1.1	44
35	Multifractal behavior of the Korean stock-market index KOSPI. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 355-361.	1.2	44
36	Dynamics of Br electrosorption on single-crystal Ag(100): a computational study. <i>Journal of Electroanalytical Chemistry</i> , 2000, 493, 68-74.	1.9	43

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37	Dynamic phase transition in the two-dimensional kinetic Ising model in an oscillating field: Universality with respect to the stochastic dynamics. <i>Physical Review E</i> , 2008, 78, 051108.	0.8	41
38	Simulated Dynamics of Underpotential Deposition of Cu with Sulfate on Au(111). <i>Journal of the Electrochemical Society</i> , 1999, 146, 1035-1040.	1.3	40
39	Lattice-gas models of adsorption in the double layer. <i>Electrochimica Acta</i> , 1996, 41, 2175-2184.	2.6	39
40	First-principles calculations for the adsorption of water molecules on the Cu(100) surface. <i>Physical Review B</i> , 2004, 70, .	1.1	39
41	Response of a catalytic reaction to periodic variation of the CO pressure: Increased CO <sub>2</sub> production and dynamic phase transition. <i>Physical Review E</i> , 2005, 71, 016120.	0.8	39
42	Structural phase transitions and oxygen-oxygen interaction energies in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . <i>Physical Review B</i> , 1992, 46, 381-389.	1.1	38
43	Method to study relaxation of metastable phases: Macroscopic mean-field dynamics. <i>Physical Review E</i> , 1995, 52, 356-372.	0.8	38
44	A model for adsorption of O on Mo(110): Phase transitions with nonuniversal behavior. <i>Journal of Chemical Physics</i> , 1991, 94, 3958-3973.	1.2	37
45	Cyclic voltammetry of platinum single crystal electrodes in solutions containing urea. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 315, 301-306.	0.3	36
46	Threshold phenomena under photoexcitation of spin-crossover materials with cooperativity due to elastic interactions. <i>Physical Review B</i> , 2009, 80, .	1.1	36
47	Kinetic Ising system in an oscillating external field: Stochastic resonance and residence-time distributions. <i>Journal of Applied Physics</i> , 1997, 81, 5597-5599.	1.1	35
48	Analytic Approximations for the Velocity of Field-Driven Ising Interfaces. <i>Journal of Statistical Physics</i> , 2000, 100, 377-403.	0.5	35
49	The effect of positive interactions on community structure in a multi-species metacommunity model along an environmental gradient. <i>Ecological Modelling</i> , 2010, 221, 885-894.	1.2	35
50	Electrosorption of Br and Cl on Ag(1 0 0): experiments and computer simulations. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 211-219.	1.9	34
51	Decay of metastable phases in a model for the catalytic oxidation of CO. <i>Physical Review E</i> , 2005, 71, 031603.	0.8	34
52	Lateral interactions in catalyst poisoning. <i>Surface Science</i> , 1989, 221, 277-298.	0.8	33
53	Numerical transfer-matrix study of metastability in the d=2 Ising model. <i>Physical Review Letters</i> , 1993, 71, 3898-3901.	2.9	33
54	Projection Method for Statics and Dynamics of Lattice Spin Systems. <i>Physical Review Letters</i> , 1998, 80, 3384-3387.	2.9	33

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55	Low-Temperature Nucleation in a Kinetic Ising Model with Soft Stochastic Dynamics. <i>Physical Review Letters</i> , 2004, 92, 015701.	2.9	33
56	Critical temperature and correlation length of an elastic interaction model for spin-crossover materials. <i>Physical Review B</i> , 2012, 85, .	1.1	33
57	Adsorption of urea on the Pt(100) electrode: experiments and lattice-gas modeling. <i>Surface Science</i> , 1993, 297, L135-L140.	0.8	32
58	Chaotic gene regulatory networks can be robust against mutations and noise. <i>Journal of Theoretical Biology</i> , 2008, 253, 323-332.	0.8	32
59	Asymptotic forms and scaling properties of the relaxation time near threshold points in spinodal-type dynamical phase transitions. <i>Physical Review E</i> , 2010, 81, 011135.	0.8	31
60	Crossover between a short-range and a long-range Ising model. <i>Physical Review B</i> , 2011, 84, .	1.1	31
61	Low-temperature nucleation in a kinetic Ising model under different stochastic dynamics with local energy barriers. <i>Journal of Chemical Physics</i> , 2004, 121, 4193-4202.	1.2	30
62	Application of a constrained-transfer-matrix method to metastability in the $d = 2$ Ising ferromagnet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 212, 194-229.	1.2	28
63	Analytical and computational study of magnetization switching in kinetic Ising systems with demagnetizing fields. <i>Physical Review B</i> , 1996, 54, 4113-4127.	1.1	28
64	Micromagnetic simulations of thermally activated magnetization reversal of nanoscale magnets. <i>Journal of Applied Physics</i> , 2000, 87, 4792-4794.	1.1	28
65	Self-optimization, community stability, and fluctuations in two individual-based models of biological coevolution. <i>Journal of Mathematical Biology</i> , 2007, 55, 653-677.	0.8	28
66	Soft versus hard dynamics for field-driven solid-on-solid interfaces. <i>Journal of Physics A</i> , 2002, 35, L117-L123.	1.6	27
67	Shape effects on the cluster spreading process of spin-crossover compounds analyzed within an elastic model with Eden and Kawasaki dynamics. <i>Physical Review B</i> , 2015, 91, .	1.1	27
68	Kinetics of the order-disorder herringbone transition. <i>Physical Review B</i> , 1984, 29, 4420-4425.	1.1	26
69	Ab initio calculations for bromine adlayers on the Ag(100) and Au(100) surfaces: The $c(2\sqrt{2}\times 2)$ structure. <i>Physical Review B</i> , 2002, 65, .	1.1	26
70	Architecture of the Florida power grid as a complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 401, 130-140.	1.2	24
71	Lateral interactions and enhanced adsorption. <i>Surface Science</i> , 1991, 249, 180-193.	0.8	23
72	Macroscopic effects of local oxygen fluctuations in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Physical Review B</i> , 1991, 43, 202-209.	1.1	23

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73	Numerical transfer-matrix study of a model with competing metastable states. <i>Physical Review E</i> , 1994, 50, 1930-1947.	0.8	23
74	Response of a kinetic Ising system to oscillating external fields: Amplitude and frequency dependence. <i>Journal of Applied Physics</i> , 1996, 79, 6482.	1.1	23
75	Fluctuations in a model ferromagnetic film driven by a slowly oscillating field with a constant bias. <i>Physical Review B</i> , 2017, 96, .	1.1	23
76	First-order structural phase transitions in a lattice-gas model for $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Physical Review B</i> , 1990, 42, 10738-10741.	1.1	22
77	Evolution of speckle during spinodal decomposition. <i>Physical Review E</i> , 1999, 60, 5151-5162.	0.8	22
78	Fluctuations and correlations in an individual-based model of biological coevolution. <i>Journal of Physics A</i> , 2004, 37, 5135-5155.	1.6	22
79	Cl electrosorption on $\text{Ag}(1\hat{0}\hat{0})$ : Lateral interactions and electrosorption valency from comparison of Monte Carlo simulations with chronocoulometry experiments. <i>Electrochimica Acta</i> , 2005, 50, 5518-5525.	2.6	22
80	Effects of lateral diffusion on morphology and dynamics of a microscopic lattice-gas model of pulsed electrodeposition. <i>Journal of Chemical Physics</i> , 2005, 122, 064705.	1.2	22
81	Spinodals and transfer matrices in $d=1$ models. <i>Physical Review B</i> , 1986, 33, 7729-7737.	1.1	21
82	POLYDISPERSITY IN FLUIDS, DISPERSIONS, AND COMPOSITES; SOME THEORETICAL RESULTS. <i>Chemical Engineering Communications</i> , 1987, 51, 233-260.	1.5	21
83	Effects of lateral interactions in multicomponent adsorption. <i>Electrochimica Acta</i> , 1991, 36, 1689-1694.	2.6	21
84	Electron paramagnetic resonance linewidths and line shapes for the molecular magnets $\text{Fe}[\text{sub } 8]$ and $\text{Mn}[\text{sub } 12]$ . <i>Journal of Applied Physics</i> , 2002, 91, 7167.	1.1	21
85	Microstructure and velocity of field-driven solid-on-solid interfaces: Analytic approximations and numerical results. <i>Physical Review E</i> , 2002, 66, 066116.	0.8	20
86	Halide adsorption on single-crystal silver substrates: dynamic simulations and ab initio density functional theory. <i>Faraday Discussions</i> , 2002, 121, 53-69.	1.6	20
87	Random walk in genome space: A key ingredient of intermittent dynamics of community assembly on evolutionary time scales. <i>Journal of Theoretical Biology</i> , 2010, 264, 663-672.	0.8	20
88	Equilibrium, metastability, and hysteresis in a model spin-crossover material with nearest-neighbor antiferromagnetic-like and long-range ferromagnetic-like interactions. <i>Physical Review B</i> , 2016, 93, .	1.1	20
89	Monte Carlo simulation of magnetization reversal in Fe sesquilayers on $\text{W}(110)$ . <i>Physical Review B</i> , 1997, 56, 11791-11796.	1.1	19
90	Hysteresis loop areas in kinetic Ising models: Effects of the switching mechanism. <i>Journal of Applied Physics</i> , 1998, 83, 6494-6496.	1.1	19

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91	Kinetic Monte Carlo simulations of electrodeposition: Crossover from continuous to instantaneous homogeneous nucleation within Avrami's law. <i>Surface Science</i> , 2006, 600, 2470-2487.	0.8	19
92	Individual-based predator-prey model for biological coevolution: Fluctuations, stability, and community structure. <i>Physical Review E</i> , 2007, 75, 051920.	0.8	19
93	A new battery-charging method suggested by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2740.	1.3	19
94	Simulations of metastable decay in two- and three-dimensional models with microscopic dynamics. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 356-363.	1.5	18
95	Effects of correlated interactions in a biological coevolution model with individual-based dynamics. <i>Journal of Physics A</i> , 2005, 38, 9475-9489.	1.6	18
96	Effect of CO desorption and coadsorption with O on the phase diagram of a Ziff-Gulari-Barshad model for the catalytic oxidation of CO. <i>Journal of Chemical Physics</i> , 2009, 131, 184704.	1.2	18
97	Positive interactions and the emergence of community structure in metacommunities. <i>Journal of Theoretical Biology</i> , 2010, 266, 419-429.	0.8	18
98	Kinetic Monte Carlo simulations of a model for heat-assisted magnetization reversal in ultrathin films. <i>Physical Review B</i> , 2011, 84, .	1.1	18
99	Effects of inert species in the gas phase in a model for the catalytic oxidation of CO. <i>Physical Review E</i> , 2012, 85, 031143.	0.8	18
100	Microstructure and velocity of field-driven Ising interfaces moving under a soft stochastic dynamic. <i>Physical Review E</i> , 2003, 67, 066113.	0.8	17
101	Numerical confirmation of late-time $t^{1/2}$ growth in three-dimensional phase ordering. <i>Physical Review E</i> , 2002, 65, 036137.	0.8	16
102	Large-scale computer investigations of finite-temperature nucleation and growth phenomena in magnetization reversal and hysteresis (invited). <i>Journal of Applied Physics</i> , 2002, 91, 6908.	1.1	16
103	Ab initio Monte Carlo simulations for finite-temperature properties: application to lithium clusters and bulk liquid lithium. <i>Computational Materials Science</i> , 2004, 29, 145-151.	1.4	16
104	Response of a model of CO oxidation with CO desorption and diffusion to a periodic external CO pressure. <i>Computational and Theoretical Chemistry</i> , 2006, 769, 189-192.	1.5	16
105	Equilibrium and non-equilibrium applications of lattice-gas models in electrochemistry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 134, 3-14.	2.3	15
106	Model for the catalytic oxidation of CO, including gas-phase impurities and CO desorption. <i>Physical Review E</i> , 2013, 88, 012132.	0.8	15
107	Kinetic Ising systems as models of magnetization switching in submicron ferromagnets. <i>Journal of Applied Physics</i> , 1996, 79, 5749.	1.1	14
108	Floridian high-voltage power-grid network partitioning and cluster optimization using simulated annealing. <i>Physics Procedia</i> , 2011, 15, 2-6.	1.2	14

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109	Monte Carlo simulations of the critical properties of a Ziff-Gulari-Barshad model of catalytic CO oxidation with long-range reactivity. <i>Physical Review E</i> , 2015, 91, 012103.	0.8	14
110	Nontrivial phase diagram for an elastic interaction model of spin crossover materials with antiferromagnetic-like short-range interactions. <i>Physical Review B</i> , 2017, 96, .	1.1	14
111	Determination of multicritical points for lattice-gas models by finite-size scaling of the susceptibility. <i>Physical Review B</i> , 1985, 32, 4756-4759.	1.1	13
112	Some applications of lattice-gas models to electrochemical adsorption. <i>Physica Scripta</i> , 1992, T44, 71-76.	1.2	13
113	Universality and scaling for the structure factor in dynamic order-disorder transitions. <i>Physical Review E</i> , 1998, 58, 5501-5507.	0.8	13
114	Scaling analysis of a divergent prefactor in the metastable lifetime of a square-lattice Ising ferromagnet at low temperatures. <i>Physical Review E</i> , 2002, 66, 056101.	0.8	13
115	A model for the catalytic oxidation of CO that includes CO desorption and diffusion, O repulsion, and impurities in the gas phase. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 424, 217-224.	1.2	13
116	Thermal magnetization reversal in arrays of nanoparticles. <i>Journal of Applied Physics</i> , 2001, 89, 7588-7590.	1.1	12
117	Determination of the basic timescale in kinetic Monte Carlo simulations by comparison with cyclic-voltammetry experiments. <i>Surface Science</i> , 2004, 572, L355-L361.	0.8	11
118	Spectral matrix methods for partitioning power grids: Applications to the Italian and Floridian high-voltage networks. <i>Physics Procedia</i> , 2010, 4, 125-129.	1.2	11
119	Polydispersity in fluids and composites: Some theoretical results. <i>International Journal of Thermophysics</i> , 1986, 7, 863-876.	1.0	10
120	Nonequilibrium Aspects of Transfer Matrices. <i>Progress of Theoretical Physics Supplement</i> , 1989, 99, 95-106.	0.2	10
121	Finite-range-scaling analysis of metastability in an Ising model with long-range interactions. <i>Physical Review E</i> , 1994, 49, 2711-2725.	0.8	10
122	EXTREME LONG-TIME DYNAMIC MONTE CARLO SIMULATIONS FOR METASTABLE DECAY IN THE d=3 ISING FERROMAGNET. <i>International Journal of Modern Physics C</i> , 2003, 14, 121-131.	0.8	10
123	First-order reversal curve analysis of homogeneous nucleation in the two-dimensional kinetic Ising model. <i>Journal of Applied Physics</i> , 2005, 97, 10E510.	1.1	10
124	Effects of demographic stochasticity on biological community assembly on evolutionary time scales. <i>Physical Review E</i> , 2010, 81, 041908.	0.8	10
125	Macroscopically constrained Wang-Landau method for systems with multiple order parameters and its application to drawing complex phase diagrams. <i>Physical Review E</i> , 2017, 95, 053302.	0.8	10
126	RECENT RESULTS ON THE DECAY OF METASTABLE PHASES. , 1995, , 149-191.		10



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127	Numerical transfer-matrix study of surface-tension anisotropy in Ising models on square and cubic lattices. <i>Physical Review B</i> , 1993, 48, 14584-14598.	1.1	9
128	Critical finite-range scaling in scalar-field theories and Ising models. <i>Physical Review E</i> , 1993, 47, 1474-1485.	0.8	9
129	Magnetization switching in nanoscale ferromagnetic grains: Simulations with heterogeneous nucleation. <i>Journal of Applied Physics</i> , 1997, 81, 5600-5602.	1.1	9
130	Slow forcing in the projective dynamics method. <i>Computer Physics Communications</i> , 1999, 121-122, 330-333.	3.0	9
131	Scaling analysis of polyacrylamide gel surfaces synthesized in the presence of surfactants. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 186-197.	5.0	9
132	Microstructure and velocity of field-driven solid-on-solid interfaces moving under stochastic dynamics with local energy barriers. <i>Physical Review B</i> , 2006, 73, .	1.1	9
133	Community-driven dispersal in an individual-based predator–prey model. <i>Ecological Complexity</i> , 2008, 5, 238-251.	1.4	9
134	Multistability in an unusual phase diagram induced by the competition between antiferromagnetic-like short-range and ferromagnetic-like long-range interactions. <i>Physical Review B</i> , 2018, 98, .	1.1	9
135	Stochastic model for the dynamics of a spin-oscillator coupled system. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1977, 26, 195-199.	1.9	8
136	Reply to “Remarks on the simulation of Cl electrosorption on Ag(110) reported in <i>Electrochimica Acta</i> 50 (2005) 5518”. <i>Electrochimica Acta</i> , 2007, 52, 1932-1935.	2.6	8
137	Complex dynamics in coevolution models with ratio-dependent functional response. <i>Ecological Complexity</i> , 2009, 6, 443-452.	1.4	8
138	Parameter estimation by Density Functional Theory for a lattice-gas model of Br and Cl chemisorption on Ag (100). <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 130-136.	1.9	8
139	Non-equilibrium Information from Transfer Matrices. <i>Physica Scripta</i> , 1991, T38, 36-39.	1.2	7
140	Transition state in magnetization reversal. <i>Journal of Applied Physics</i> , 2003, 93, 6817-6819.	1.1	7
141	Effects of preference for attachment to low-degree nodes on the degree distributions of a growing directed network and a simple food-web model. <i>Physical Review E</i> , 2006, 73, 056115.	0.8	7
142	New type of ordering process with volume change of molecules in the spin-crossover transition, and its new aspects of dynamical processes. <i>Journal of Physics: Conference Series</i> , 2009, 148, 012027.	0.3	7
143	Modeling power grids. <i>Physics Procedia</i> , 2012, 34, 119-123.	1.2	7
144	Phase diagrams and free-energy landscapes for model spin-crossover materials with antiferromagnetic-like nearest-neighbor and ferromagnetic-like long-range interactions. <i>Physical Review B</i> , 2017, 96, .	1.1	7

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145	Complete catalog of ground-state diagrams for the general three-state lattice-gas model with nearest-neighbor interactions on a square lattice. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6216-6223.	1.3	7
146	Nanostructure and velocity of field-driven solid-on-solid interfaces moving under a phonon-assisted dynamic. <i>Physical Review B</i> , 2007, 76, .	1.1	6
147	Nucleation Theory of Magnetization Switching in Nanoscale Ferromagnets. , 1998, , 307-316.		6
148	Thermal and dynamic effects in Langevin simulation of hysteresis in nanoscale pillars. <i>Physica B: Condensed Matter</i> , 2001, 306, 117-120.	1.3	5
149	Surface scaling analysis of a frustrated spring-network model for surfactant-templated hydrogels. <i>Physical Review E</i> , 2002, 66, 046119.	0.8	5
150	Update statistics in conservative parallel-discrete-event simulations of asynchronous systems. <i>Physical Review E</i> , 2003, 68, 046705.	0.8	5
151	Stochastic model for the dynamics of a spin-oscillator coupled system. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1978, 30, 339-344.	1.9	4
152	Three-State Lattice-Gas Model of H-S on Pt(111). <i>Materials Research Society Symposia Proceedings</i> , 1987, 111, 249.	0.1	4
153	Magnetization switching in single-domain ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 917-918.	1.0	4
154	Angular dependence of switching properties in single Fe nanopillars. <i>Journal of Applied Physics</i> , 2004, 95, 6666-6668.	1.1	4
155	<title>Fluctuations in models of biological macroevolution (Invited Paper)</title> . , 2005, , .		4
156	Reversal modes of simulated iron nanopillars in an obliquely oriented field. <i>Journal of Applied Physics</i> , 2005, 97, 10E520.	1.1	4
157	Field-driven solid-on-solid interfaces moving under a stochastic Arrhenius dynamics: Effects of the barrier height. <i>Computational and Theoretical Chemistry</i> , 2006, 769, 207-210.	1.5	4
158	Resolution-dependent mechanisms for bimodal switching-time distributions in simulated Fe nanopillars. <i>Physical Review B</i> , 2009, 79, .	1.1	4
159	Monte Carlo Studies of the Ising Antiferromagnet with a Ferromagnetic Mean-field Term. <i>Physics Procedia</i> , 2014, 57, 20-23.	1.2	4
160	Absorbing random walks interpolating between centrality measures on complex networks. <i>Physical Review E</i> , 2020, 101, 012302.	0.8	4
161	Monte Carlo Simulation of Magnetization Reversal Via Domain-Wall Motion in Fe Sesquilayers on W(110). <i>Materials Research Society Symposia Proceedings</i> , 1997, 492, 313.	0.1	3
162	Numerical simulations of scattering speckle from phase ordering systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 239, 363-372.	1.2	3

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163	Projective dynamics analysis of magnetization reversal. <i>Physica B: Condensed Matter</i> , 2004, 343, 195-199.	1.3	3
164	Surface scaling analysis of hydrogels: From multiaffine to self-affine scaling. <i>Microelectronics Journal</i> , 2005, 36, 913-916.	1.1	3
165	New cyclic voltammetry method for examining phase transitions: Simulated results. <i>Journal of Electroanalytical Chemistry</i> , 2007, 607, 61-68.	1.9	3
166	COMPLEX BEHAVIOR IN SIMPLE MODELS OF BIOLOGICAL COEVOLUTION. <i>International Journal of Modern Physics C</i> , 2009, 20, 1387-1397.	0.8	3
167	Effects of lateral diffusion on the dynamics of desorption. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 379-384.	1.2	3
168	Centrality Fingerprints for Power Grid Network Growth Models. <i>Physics Procedia</i> , 2015, 68, 52-55.	1.2	3
169	Conservation of population size is required for self-organized criticality in evolution models. <i>New Journal of Physics</i> , 2018, 20, 083023.	1.2	3
170	Nonequilibrium Surface Growth and Scalability of Parallel Algorithms for Large Asynchronous Systems. <i>Springer Proceedings in Physics</i> , 2001, , 183-188.	0.1	3
171	Flicker Noise in a Model of Coevolving Biological Populations. <i>Springer Proceedings in Physics</i> , 2004, , 34-37.	0.1	3
172	Lattice-Gas Models of Electrochemical Adsorption: Static and Dynamic Aspects. <i>Materials Research Society Symposia Proceedings</i> , 1996, 451, 69.	0.1	2
173	Effect of defects on the line shape of electron paramagnetic resonance signals from the single-molecule magnet Mn <sub>12</sub> :A theoretical study. <i>Journal of Chemical Physics</i> , 2002, 117, 11292-11300.	1.2	2
174	Dynamics of Magnetization Reversal in Models of Magnetic Nanoparticles and Ultrathin Films. <i>Lecture Notes in Physics</i> , 2002, , 164-182.	0.3	2
175	Network growth with preferential attachment for high indegree and low outdegree. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2631-2636.	1.2	2
176	Degree correlations in a dynamically generated model food web. <i>Physics Procedia</i> , 2010, 3, 1487-1492.	1.2	2
177	Adjustable reach in a network centrality based on current flows. <i>Physical Review E</i> , 2021, 103, 052308.	0.8	2
178	Applications of Computer Simulations and Statistical Mechanics in Surface Electrochemistry. <i>Modern Aspects of Electrochemistry</i> , 2009, , 131-149.	0.2	2
179	A Universal Lifetime Distribution for Multi-Species Systems. <i>Springer Proceedings in Complexity</i> , 2015, , 175-186.	0.2	2
180	Dynamical scaling in the order-disorder herringbone transition. <i>Surface Science</i> , 1985, 152-153, 859-867.	0.8	1

#	ARTICLE	IF	CITATIONS
181	Metastability and transfer-matrix finite-range scaling. AIP Conference Proceedings, 1992, , .	0.3	1
182	Simulation of magnetization switching in biaxial single-domain ferromagnetic particles. IEEE Transactions on Magnetics, 2000, 36, 231-240.	1.2	1
183	A Biological Coevolution Model with Correlated Individual-Based Dynamics. , 2006, , 90-94.		1
184	EC-FORC: A New Cyclic-Voltammetry Based Method for Examining Phase Transitions and Predicting Equilibrium. ECS Transactions, 2007, 6, 53-60.	0.3	1
185	Two modes of magnetization switching in a simulated iron nanopillar in an obliquely oriented field. Journal of Physics Condensed Matter, 2010, 22, 236001.	0.7	1
186	Phase Separation on a Hyperbolic Lattice. Physics Procedia, 2014, 53, 82-89.	1.2	1
187	Fluctuations and Universality in a Catalysis Model with Long-range Reactivity. Physics Procedia, 2015, 68, 20-24.	1.2	1
188	Density of states for systems with multiple order parameters: a constrained Wang-Landau method. Journal of Physics: Conference Series, 2017, 921, 012019.	0.3	1
189	First-order Reversal Curve Analysis of Kinetic Monte Carlo Simulations of First- and Second-order Phase Transitions. Springer Proceedings in Physics, 2009, , 89-93.	0.1	1
190	Determining the Saddle Point in Micromagnetic Models of Magnetization Switching. Springer Proceedings in Physics, 2003, , 24-28.	0.1	1
191	Lateral interactions and enhanced adsorption. Surface Science Letters, 1991, 249, A265.	0.1	0
192	Conventional and Unconventional Numerical Transfer-Matrix Methods. Materials Research Society Symposia Proceedings, 1992, 278, 15.	0.1	0
193	Computer Simulations of Thermal Switching in Small-Grain Ferromagnets. Materials Research Society Symposia Proceedings, 1998, 517, 279.	0.1	0
194	Going through Rough Times: from Non-Equilibrium Surface Growth to Algorithmic Scalability. Materials Research Society Symposia Proceedings, 2001, 700, 10101.	0.1	0
195	Defects, Tunneling, and EPR Spectra of Single-Molecule Magnets. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
196	Finite-Temperature Simulations for Magnetic Nanostructures. Springer Series in Materials Science, 2007, , 97-117.	0.4	0
197	Effects of stochastic population fluctuations in two models of biological macroevolution. Physics Procedia, 2010, 6, 76-79.	1.2	0
198	Are genetically robust regulatory networks dynamically different from random ones?. Physics Procedia, 2010, 7, 93-97.	1.2	0

#	ARTICLE	IF	CITATIONS
199	A New Charging Method for Li-Ion Batteries: Dependence of the Charging Time on the Direction of an Additional Oscillating Field. ECS Transactions, 2010, 33, 33-37.	0.3	0
200	Dynamics of desorption with lateral diffusion. Journal of Chemical Physics, 2013, 139, 124706.	1.2	0
201	Dynamic Phase Transition and Hysteresis in Kinetic Ising Models. Springer Proceedings in Physics, 2000, , 105-119.	0.1	0
202	Hysteresis in an Electrochemical System: Br Electrodeposition on Ag(100). Springer Proceedings in Physics, 2001, , 189-194.	0.1	0
203	Dynamic Phase Diagram for a Periodically Driven Kinetic Square-lattice Ising Ferromagnet: Finite-size Scaling Evidence for the Absence of a Tri-critical Point. Springer Proceedings in Physics, 2002, , 34-39.	0.1	0
204	First-Principles Parameter Estimation for Dynamic Monte Carlo of a Lattice-Gas Model. Springer Proceedings in Physics, 2002, , 40-44.	0.1	0
205	Fine-Grid Simulations of Thermally Activated Switching in Nanoscale Magnets. Springer Proceedings in Physics, 2003, , 20-23.	0.1	0
206	Computational Modeling of Oxygen Ordering and Structural Phase Transitions in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . , 1993, , 627-635.		0
207	Projective Dynamics in Realistic Models of Nanomagnets. , 0, , 196-200.		0