Nikolaos G Fytas

List of Publications by Year in Descending Order

69 papers	972 citations	17 h-index	27 g-index
74 ext. papers	1,092 ext. citations	2.3 avg, IF	4.7 L-index

#	Paper	IF	Citations
69	Efficient algorithms for computing ground states of the 2D random-field Ising model. *Journal of Physics: Conference Series*, **2022**, 2207, 012009	0.3	0
68	Multicanonical simulations of the 2D spin-1 Baxter-Wu model in a crystal field. *Journal of Physics: Conference Series*, **2022**, 2207, 012008	0.3	
67	Metastable behavior of the spin-s Ising and Blume-Capel ferromagnets: A Monte Carlo study. *Physical Review E*, **2021**, 104, 014107	2.4	1
66	Monte Carlo study of the two-dimensional kinetic Blume-Capel model in a quenched random crystal field. *Physical Review E*, **2021**, 104, 024108	2.4	2
65	Ising universality in the two-dimensional Blume-Capel model with quenched random crystal field. *Physical Review E*, **2020**, 102, 062138	2.4	6
64	Mixing-demixing transition in polymer-grafted spherical nanoparticles. *Soft Matter*, **2020**, 16, 703-708	3.6	4
63	Evidence for Supersymmetry in the Random-Field Ising Model at D=5. *Physical Review Letters*, **2019**, 122, 240603	7.4	19
62	Monte Carlo study of the interfacial adsorption of the Blume-Capel model. *Physical Review E*, **2019**, 99, 012111	2.4	3
61	Universality from disorder in the random-bond Blume-Capel model. *Physical Review E*, **2018**, 97, 040102	2.4	16
60	Dynamic phase transition of the Blume-Capel model in an oscillating magnetic field. *Physical Review E*, **2018**, 97, 012122	2.4	11
59	Review of Recent Developments in the Random-Field Ising Model. *Journal of Statistical Physics*, **2018**, 172, 665-672	1.5	19
58	Dynamic phase transitions in the presence of quenched randomness. *Physical Review E*, **2018**, 97, 062146	2.4	6
57	Scaling and universality in the phase diagram of the 2D Blume-Capel model. *European Physical Journal: Special Topics*, **2017**, 226, 789-804	2.3	20
56	Interfacial adsorption in two-dimensional pure and random-bond Potts models. *Physical Review E*, **2017**, 95, 032126	2.4	3
55	Restoration of dimensional reduction in the random-field Ising model at five dimensions. *Physical Review E*, **2017**, 95, 042117	2.4	29
54	Efficient numerical methods for the random-field Ising model: Finite-size scaling, reweighting extrapolation, and computation of response functions. *Physical Review E*, **2016**, 93, 063308	2.4	21
53	Phase Transitions in Disordered Systems: The Example of the Random-Field Ising Model in Four Dimensions. *Physical Review Letters*, **2016**, 116, 227201	7.4	34

52	Geometry effects in the magnetoconductance of normal and Andreev Sinai billiards. *European Physical Journal B*, **2016**, 89, 1	1.2	
51	Revisiting the scaling of the specific heat of the three-dimensional random-field Ising model. *European Physical Journal B*, **2016**, 89, 1	1.2	3
50	Bridges in the random-cluster model. *Nuclear Physics B*, **2016**, 903, 19-50	2.8	4
49	Connectivity properties of the random-cluster model. *Journal of Physics: Conference Series*, **2016**, 681, 012014	0.3	
48	Parallel multicanonical study of the three-dimensional Blume-Capel model. *Physical Review E*, **2015**, 91, 032126	2.4	16
47	Critical aspects of three-dimensional anisotropic spin-glass models. *European Physical Journal B*, **2015**, 88, 1	1.2	2
46	Interfacial adsorption in Potts models on the square lattice. *European Physical Journal B*, **2015**, 88, 1	1.2	6
45	Universality in four-dimensional random-field magnets. *European Physical Journal B*, **2015**, 88, 1	1.2	3
44	Fragmentation of fractal random structures. *Physical Review Letters*, **2015**, 114, 115701	7.4	8
43	Self-assembly of DNA-functionalized colloids. *Condensed Matter Physics*, **2015**, 22801	1.3	17
42	Critical Binder cumulant and universality: Fortuin-Kasteleyn clusters and order-parameter fluctuations. *Physical Review E*, **2014**, 89, 042103	2.4	13
41	Phase behaviour of two-component bottle-brush polymers with flexible backbones under poor solvent conditions. *Materials Research Express*, **2014**, 1, 015301	1.7	4
40	Random-field Ising model: Insight from zero-temperature simulations. *Condensed Matter Physics*, **2014**, 17, 43003	1.3	7
39	Molecular dynamics simulations of single-component bottle-brush polymers with flexible backbones under poor solvent conditions. *Journal of Physics Condensed Matter*, **2013**, 25, 285105	1.8	16
38	Critical aspects of the random-field Ising model. *European Physical Journal B*, **2013**, 86, 1	1.2	8
37	Universality aspects of the 2d random-bond Ising and 3d Blume-Capel models. *European Physical Journal B*, **2013**, 86, 1	1.2	7
36	Light scattering by a metallic nanoparticle coated with a nematic liquid crystal. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 335-340	1.6	5
35	Universality in the three-dimensional random-field Ising model. *Physical Review Letters*, **2013**, 110, 227201	7.4	76

34	Wetting and interfacial adsorption in the Blume-Capel model on the square lattice. *European Physical Journal B*, **2013**, 86, 1	1.2	16
33	Fluctuations and criticality in the random-field Ising model. *Physical Review E*, **2013**, 87,	2.4	8
32	Quantum Monte Carlo simulations revisited: The case of anisotropic Heisenberg chains. *Philosophical Magazine*, **2012**, 92, 4649-4656	1.6	2
31	Universality aspects of the trimodal random-field Ising model. *European Physical Journal B*, **2012**, 85, 1	1.2	11
30	A study for the static properties of symmetric linear multiblock copolymers under poor solvent conditions. *Journal of Chemical Physics*, **2012**, 136, 094902	3.9	9
29	Monte Carlo study of the triangular Blume-Capel model under bond randomness. *Physical Review E*, **2012**, 86, 011140	2.4	24
28	Universality aspects of the d = 3 random-bond Blume-Capel model. *Physical Review E*, **2012**, 85, 061106	2.4	24
27	Molecular Dynamics Simulations of Bottle-Brush Polymers with a Flexible Backbone under Theta and Good Solvent Conditions. *American Journal of Condensed Matter Physics*, **2012**, 2, 101-108		13
26	Phase behavior of symmetric linear multiblock copolymers. *Europhysics Letters*, **2011**, 93, 43001	1.6	9
25	Scaling and self-averaging in the three-dimensional random-field Ising model. *European Physical Journal B*, **2011**, 79, 13-20	1.2	10
24	Wang-Landau study of the triangular Blume-Capel ferromagnet. *European Physical Journal B*, **2011**, 79, 21-28	1.2	13
23	Wang-Landau study of the 3D Ising model with bond disorder. *European Physical Journal B*, **2011**, 81, 245-251	1.2	8
22	Microphase separation in linear multiblock copolymers under poor solvent conditions. *Soft Matter*, **2011**, 7, 1038-1044	3.6	12
21	Analysis of the static properties of cluster formations in symmetric linear multiblock copolymers. *Journal of Physics Condensed Matter*, **2011**, 23, 235106	1.8	7
20	Critical behavior of the pure and random-bond two-dimensional triangular Ising ferromagnet. *Physical Review E*, **2010**, 81, 041109	2.4	16
19	Multicritical points and crossover mediating the strong violation of universality: Wang-Landau determinations in the random-bond d=2 Blume-Capel model. *Physical Review E*, **2010**, 81, 041113	2.4	48
18	Universality in disordered systems: the case of the three-dimensional random-bond Ising model. *Physical Review E*, **2010**, 82, 062101	2.4	15
17	Wang-Landau study of the 2d random-bond Blume-Capel model. *Physics Procedia*, **2010**, 3, 1443-1446		

16	Uncovering the secrets of the 2D random-bond Blume-Capel model. *Physica A: Statistical Mechanics and Its Applications*, **2010**, 389, 2930-2933	3.3	2
15	Strong violation of critical phenomena universality: Wang-Landau study of the two-dimensional Blume-Capel model under bond randomness. *Physical Review E*, **2009**, 79, 011125	2.4	51
14	Criticality in the randomness-induced second-order phase transition of the triangular Ising antiferromagnet with nearest- and next-nearest-neighbor interactions. *Physica A: Statistical Mechanics and Its Applications*, **2009**, 388, 4950-4958	3.3	9
13	Quenched bond randomness in marginal and non-marginal Ising spin models in 2D. *Journal of Statistical Mechanics: Theory and Experiment*, **2008**, 2008, P11009	1.9	21
12	Wang-Landau study of the random bond square Ising model with nearest- and next-nearest-neighbor interactions. *Journal of Statistical Mechanics: Theory and Experiment*, **2008**, 2008, L07001	1.9	8
11	First-order transition features of the 3D bimodal random-field Ising model. *Journal of Statistical Mechanics: Theory and Experiment*, **2008**, 2008, P03015	1.9	34
10	Phase diagram of the 3D bimodal random-field Ising model. *European Physical Journal B*, **2008**, 61, 111-120	1.2	28
9	First-order transition features of the triangular Ising model with nearest- and next-nearest-neighbor antiferromagnetic interactions. *Physica A: Statistical Mechanics and Its Applications*, **2007**, 383, 351-371	3.3	14
8	Universal features and tail analysis of the order-parameter distribution of the two-dimensional Ising model: an entropic sampling Monte Carlo study. *Physical Review E*, **2006**, 73, 056114	2.4	9
7	Lack of self-averaging of the specific heat in the three-dimensional random-field Ising model. *Physical Review E*, **2006**, 73, 016109	2.4	57
6	The CrMES scheme as an alternative to importance sampling: The tail regime of the order-parameter distribution. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 365, 197-202	3.3	
5	A new comprehensive study of the 3D random-field Ising model via sampling the density of states in dominant energy subspaces. *European Physical Journal B*, **2006**, 50, 39-43	1.2	7
4	Thermal critical behavior and universality aspects of the three-dimensional random-field Ising model. *European Physical Journal B*, **2006**, 51, 257-266	1.2	5
3	Entropic sampling via Wang-Landau random walks in dominant energy subspaces. *Physical Review E*, **2005**, 72, 066120	2.4	37
2	Magnetic-field dependence of transport in normal and Andreev billiards: A classical interpretation of the averaged quantum behavior. *Physical Review B*, **2005**, 72,	3.3	10
1	Estimation of critical behavior from the density of states in classical statistical models. *Physical Review E*, **2004**, 70, 066128	2.4	42