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List of Publications by Year
in descending order

Version: 2024-02-01

58 papers	630 citations	567281 15 h-index	677142 22 g-index
59 all docs	59 docs citations	59 times ranked	101 citing authors

#	Article	IF	Citations
1	Prediction of the existence of an intermediate phase in the antiferromagnetic J₁-J₂system on the face-centered cubic lattice. Europhysics Letters, 2022, 139, 26001.	2.0	3
2	General solution of spin-1 Ising model in the effective field theory approximation: critical temperatures and spontaneous magnetization. Phase Transitions, 2022, 95, 1-9.	1.3	1
3	Wasp-waisted hysteresis in magnetic materials with octahedral structure: A theoretical explanation based on exactly solvable model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 443, 128225.	2.1	3
4	Phase diagram and thermodynamic properties of the frustrated ferro-antiferromagnetic spin system on the octahedral lattice. Physica A: Statistical Mechanics and Its Applications, 2022, 603, 127731.	2.6	2
5	Theoretical evidence for the presence of â€œspin-liquidâ€•like phase in frustrated ferrimagnetic J1â€¯â^'â€¯J2 systems on body-centered cubic lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 388, 127043.	2.1	5
6	Influence of multisite interaction on thermodynamics and ground-state degeneracies of frustrated magnetic systems with pyrochlore structure: An exact theoretical analysis. Physica A: Statistical Mechanics and Its Applications, 2021, 561, 125237.	2.6	6
7	Influence of metamagnetic phase transitions on thermodynamics of frustrated systems with octahedral structure. Journal of Magnetism and Magnetic Materials, 2021, 524, 167658.	2.3	5
8	Field-induced tricriticality in antiferromagnetic J1â^'J2 spin systems on body-centered cubic lattice. Physica A: Statistical Mechanics and Its Applications, 2021, 583, 126338.	2.6	0
9	Interaction-generated frustration in the ferromagnetic spin system on the kagome lattice: Exact analysis on the star kagomelike recursive lattice. Physical Review E, 2021, 104, 044121.	2.1	2
10	Critical temperatures and critical concentrations in diluted magnetic systems: General solution of the Ising model in effective-field theory approach. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123160.	2.6	2
11	Anomalous Dimensions of Leading Composite Operators in the Kinematic MHD Turbulence: Two-Loop Renormalization Group Analysis. Physics of Particles and Nuclei, 2020, 51, 812-815.	0.7	0
12	Ground states, residual entropies, and specific heat capacity properties of frustrated Ising system on pyrochlore lattice in effective field theory cluster approximations. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 124671.	2.6	7
13	Evidence for weak ferromagnetism and metamagnetic phase transitions in frustrated antiferromagnetic systems with octahedral structure. Journal of Magnetism and Magnetic Materials, 2020, 513, 167085.	2.3	8
14	Prediction of the existence of a spin-liquid-like phase in the antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub>/<mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> system on the body-centered cubic lattice. Physical Review B, 2020, 101, .	3.2	10
15	Influence of Finite-Time Velocity Correlations on Scaling Properties of the Magnetic Field in the Kazantsev-Kraichnan Model: Two-Loop Renormalization Group Analysis. Theoretical and Mathematical Physics(Russian Federation), 2019, 200, 1126-1138.	0.9	1
16	Entropy properties of antiferromagnetic model on kagome lattice: Effective-field theory approach. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122430.	2.6	3
17	Influence of dilution on magnetization properties of geometrically frustrated magnetic systems: Effective-field theory cluster approximations on kagome lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125972.	2.1	4
18	Relevance of recursive lattice approximations for description of frustrated magnetic systems: Star kagome-like recursive lattice approximation. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 330-351.	2.6	22

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19	Consequences of residual-entropy hierarchy violation for behavior of the specific heat capacity in frustrated magnetic systems: An exact theoretical analysis. Physical Review E, 2019, 99, 042151.	2.1	5
20	A general view on the critical behavior in the effective field theory approximation of the Ising model with arbitrary coordination number. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1399-1404.	2.6	2
21	An investigation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e644" altimg="si62.gif"><mml:msub><mml:mrow><mml:mi>J</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml transvers. Physica A: Statistical Mechanics and Its Applications, 2019, 518, 13-21.	2.6	9
22	Applicability of effective field theory cluster approximations for investigation of geometrically frustrated magnetic systems: Antiferromagnetic model on kagome lattice. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 644-657.	2.6	9
23	Frustrated spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml Ising antiferromagnet on a square lattice in a transverse field. Physical Review E, 2018, 97, 022124.	2.1	13
24	Antiferromagnetic geometric frustration under the influence of the next-nearest-neighbor interaction. An exactly solvable model. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1798-1822.	2.6	10
25	Highly macroscopically degenerated single-point ground states as source of specific heat capacity anomalies in magnetic frustrated systems. Journal of Magnetism and Magnetic Materials, 2018, 451, 137-142.	2.3	13
26	Anomalous scaling in the Kazantsev-Kraichnan model with finite time correlations: two-loop renormalization group analysis of relevant composite operators. European Physical Journal B, 2018, 91, 1.	1.5	9
27	Multipeak low-temperature behavior of specific heat capacity in frustrated magnetic systems: An exact theoretical analysis. Physical Review E, 2018, 97, 052129.	2.1	22
28	Evidence for the ferromagnetic frustration in a classical spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml91" display="inline" overflow="scroll" altimg="si91.gif"><mml:mn>1</mml:mn><mml:mo>âˆ•</mml:mo><mml:mn>2</mml:mn></mml:math> system with multisite interaction in external magnetic field: Exact results. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 296-317.	2.6	16
29	Adiabatic cooling processes in frustrated magnetic systems with pyrochlore structure. Physical Review E, 2017, 96, 052128.	2.1	22
30	Simultaneous influence of helicity and compressibility on anomalous scaling of the magnetic field in the Kazantsev-Kraichnan model. Physical Review E, 2017, 95, 053210.	2.1	15
31	Geometric frustration effects in the spin-1 antiferromagnetic Ising model on the kagome-like recursive lattice: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 093207.	2.3	6
32	Turbulent Prandtl number in theAmodel of passive vector admixture. Physical Review E, 2016, 93, 033106.	2.1	13
33	Spin-1 Ising model on tetrahedron recursive lattices: Exact results. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 554-568.	2.6	7
34	Single-point ground states and residual entropies in the antiferromagnetic Ising model with multisite interaction on the tetrahedral chain: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 013101.	2.3	2
35	Exact results for the spin-1 Ising model on pure â€œsquareâ€•Husimi lattices: Critical temperatures and spontaneous magnetization. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 641-653.	2.6	10
36	The second order phase transitions of the spin-1 Ising model on pure Husimi lattices with elementary triangles: Exact results. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 933-940.	2.1	9

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37	The first order phase transitions in the multisite spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si66.gif" display="inline" overflow="scroll"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math> model on a pure Husimi lattice. Physica A: Statistical Mechanics and Its Applications, 2014, 415, 375-385.	2.6	11
38	Solution of the antiferromagnetic Ising model on a tetrahedron recursive lattice. Physical Review E, 2014, 89, 032123.	2.1	22
39	The Exact Solution of the Anti-ferromagnetic Ising Model with Multisite Interaction on the Simplest Pure Husimi Lattice. Journal of Statistical Physics, 2014, 154, 1096-1112.	1.2	32
40	The second order phase transitions of the Ising model on tetrahedron recursive lattices: Exact results. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1059-1064.	2.1	7
41	First order phase transitions in the antiferromagnetic Ising model on a pure Husimi lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1448-1454.	2.1	12
42	Solution of the antiferromagnetic Ising model with multisite interaction on a zigzag ladder. Physical Review E, 2014, 90, 032108.	2.1	8
43	Phase transitions of thep-spin model on pure Husimi lattices. Physical Review E, 2013, 88, 012140.	2.1	7
44	Advection of a passive vector field by the Gaussian velocity field with finite correlations in time. Physics of Particles and Nuclei, 2013, 44, 272-284.	0.7	0
45	Advection of passive magnetic field by the Gaussian velocity field with finite correlations in time and spatial parity violation. Physics of Particles and Nuclei, 2013, 44, 360-373.	0.7	5
46	The anti-ferromagnetic Ising model on the simplest pure Husimi lattice: An exact solution. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2712-2717.	2.1	40
47	CRITICAL TEMPERATURES OF THE ISING MODEL ON THE BETHE LATTICE FOR ARBITRARY VALUES OF SPIN. International Journal of Modern Physics B, 2012, 26, 1250003.	2.0	4
48	Anomalous scaling of the magnetic field in the Kazantsevâ€“Kraichnan model. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 485501.	2.1	31
49	The Ising Model on Pure Husimi Lattices: A General Formulation and the Critical Temperatures. Journal of Statistical Physics, 2012, 147, 1077-1093.	1.2	24
50	Turbulent magnetic Prandtl number in kinematic magnetohydrodynamic turbulence: Two-loop approximation. Physical Review E, 2011, 84, 046311.	2.1	15
51	A general formula for analytic reduction of multi-loop tensor Feynman integrals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 57-60.	4.1	1
52	Anomalous scaling of a passive vector advected by the Navierâ€“Stokes velocity field. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 275501.	2.1	17
53	Numerical investigation of scaling regimes in a model of an anisotropically advected vector field. Physics of Particles and Nuclei Letters, 2008, 5, 219-222.	0.4	10
54	COMBINED EFFECTS OF SMALL SCALE ANISOTROPY AND COMPRESSIBILITY ON ANOMALOUS SCALING OF A PASSIVE SCALAR. International Journal of Modern Physics B, 2008, 22, 3589-3617.	2.0	14

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55	Anomalous scaling of a passive scalar advected by a turbulent velocity field with finite correlation time and uniaxial small-scale anisotropy. Physical Review E, 2008, 77, 016306.	2.1	25
56	Influence of helicity on scaling regimes in model of passive scalar advected by the turbulent velocity field with finite correlation time. European Physical Journal D, 2006, 56, 827-850.	0.4	16
57	The influence of helicity on scaling regimes in the extended Kraichnan model. Journal of Physics A, 2006, 39, 7913-7926.	1.6	17
58	Influence of helicity on anomalous scaling of a passive scalar advected by the turbulent velocity field with finite correlation time: Two-loop approximation. Physical Review E, 2006, 74, 036310.	2.1	28