

Milan Zukovic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

677
citations

13
h-index

21
g-index

93
ext. papers

760
ext. citations

2.1
avg, IF

4.77
L-index

#	Paper	IF	Citations
90	Absence of long-range order in a three-dimensional stacked Ising antiferromagnet on kagome lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 430, 127975	2.3	0
89	XY model with competing higher-order interactions.. <i>Physical Review E</i> , 2022 , 105, 034129	2.4	
88	Stability of skyrmion crystal phase in antiferromagnetic triangular lattice with DMI and single-ion anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 546, 168840	2.8	1
87	Formation and growth of skyrmion crystal phase in a frustrated Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 527, 167755	2.8	4
86	Critical properties of the frustrated Ising model on a honeycomb lattice: A Monte Carlo study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 404, 127405	2.3	3
85	Phase diagrams of the antiferromagnetic XY model on a triangular lattice with higher-order interactions. <i>Physical Review E</i> , 2021 , 104, 024134	2.4	1
84	Effect of Single-Ion Anisotropy on Magnetocaloric Properties of Frustrated Spin-s Ising Nanoclusters. <i>Magnetochemistry</i> , 2020 , 6, 56	3.1	2
83	Absence of long-range order in a general spin-S kagome lattice Ising antiferromagnet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126615	2.3	3
82	Global Thermodynamic Properties of Complex Spin Systems Calculated from Density of States and Indirectly by Thermodynamic Integration Method. <i>EPJ Web of Conferences</i> , 2020 , 226, 02019	0.3	
81	Emergence of a Skyrmion Phase in a Frustrated Heisenberg Antiferromagnet with Dzyaloshinskii-Moriya Interaction. <i>Acta Physica Polonica A</i> , 2020 , 137, 616-618	0.6	5
80	Spin-Glass-Like Ordering in a Frustrated J1-J2 Ising Antiferromagnet on a Honeycomb Lattice. <i>Acta Physica Polonica A</i> , 2020 , 137, 619-621	0.6	2
79	Magnetocaloric Properties of an Ising Antiferromagnet on a Kagome Lattice. <i>Acta Physica Polonica A</i> , 2020 , 137, 622-624	0.6	1
78	Magnetism of the Diluted Ising Antiferromagnet in a Magnetic Field on the Kagome Lattice: Single-Spin Cluster Approximation. <i>Acta Physica Polonica A</i> , 2020 , 137, 628-630	0.6	1
77	Phase Diagram of a Generalized XY Model with Geometrical Frustration. <i>Acta Physica Polonica A</i> , 2020 , 137, 613-615	0.6	
76	GPU-Accelerated Simulation of Massive Spatial Data Based on the Modified Planar Rotator Model. <i>Mathematical Geosciences</i> , 2020 , 52, 123-143	2.5	2
75	New ordered phase in geometrically frustrated generalized XY model. <i>Physical Review E</i> , 2020 , 102, 032113	1.3	2
74	Numerical Precision Effects on GPU Simulation of Massive Spatial Data, Based on the Modified Planar Rotator Model. <i>EPJ Web of Conferences</i> , 2020 , 226, 02015	0.3	

73	Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. <i>EPJ Web of Conferences</i> , 2020 , 226, 02023	0.3	0
72	XY model with antinematic interaction. <i>Physical Review E</i> , 2019 , 99, 062112	2.4	3
71	Magnetocaloric properties of frustrated tetrahedra-based spin nanoclusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 2525-2534	2.3	10
70	An investigation of the $J_1J_2J_3$ transverse Ising antiferromagnet on the honeycomb lattice with frustration. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 518, 13-21	3.3	6
69	Frustrated spin-1/2 Ising antiferromagnet on a square lattice in a transverse field. <i>Physical Review E</i> , 2018 , 97, 022124	2.4	11
68	Magnetic quasi-long-range ordering in nematic systems due to competition between higher-order couplings. <i>Physical Review E</i> , 2018 , 97, 052101	2.4	7
67	Thermodynamic and critical properties of an antiferromagnetically stacked triangular Ising antiferromagnet in a field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1305-1311	2.3	3
66	Multiple phase transitions in the XY model with nematic-like couplings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2618-2621	2.3	4
65	Phase diagram of the J_1 - J_2 frustrated anisotropic antiferromagnet with spin $S=1$ on the quadratic lattice. <i>Physical Review E</i> , 2018 , 98, 022123	2.4	7
64	Magnetization process and magnetocaloric effect in geometrically frustrated Ising antiferromagnet and spin ice models on a Star of David nanocluster. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 311-318	2.8	15
63	Gibbs Markov random fields with continuous values based on the modified planar rotator model. <i>Physical Review E</i> , 2018 , 98,	2.4	4
62	XY model with higher-order exchange. <i>Physical Review E</i> , 2017 , 96, 022158	2.4	7
61	Ordering phenomena in a heterostructure of frustrated and unfrustrated triangular-lattice Ising layers. <i>Physical Review E</i> , 2017 , 96, 012145	2.4	1
60	First-order transition in XY model with higher-order interactions. <i>Journal of Physics: Conference Series</i> , 2017 , 936, 012016	0.3	1
59	Understanding of Exchange Bias in Ferromagnetic/Antiferromagnetic Bilayers 2017 , 205-231		2
58	Exact Diagonalization Study of an Extended Hubbard Model for a Cubic Cluster at Quarter Filling. <i>Acta Physica Polonica A</i> , 2017 , 131, 1012-1014	0.6	4
57	Theoretical Study of the Frustrated Ising Antiferromagnet on the Honeycomb Lattice. <i>Acta Physica Polonica A</i> , 2017 , 131, 636-638	0.6	2
56	Enhanced Magnetocaloric Effect due to Selective Dilution in a Triangular Ising Antiferromagnet. <i>Acta Physica Polonica A</i> , 2017 , 131, 645-647	0.6	3

55	Magnetization Curves of Geometrically Frustrated Exchange-Biased FM/AFM Bilayers. <i>Acta Physica Polonica A</i> , 2017 , 131, 642-644	0.6	
54	Tricritical behaviour of the frustrated Ising antiferromagnet on the honeycomb lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2693-2697	2.3	8
53	GPU-Accelerated Population Annealing Algorithm: Frustrated Ising Antiferromagnet on the Stacked Triangular Lattice. <i>EPJ Web of Conferences</i> , 2016 , 108, 02016	0.3	8
52	Critical behavior of a triangular lattice Ising AF/FM bilayer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 1087-1092	2.3	10
51	Frustrated ground states of a generalized XY model and their mapping to nonmagnetic structural analogs. <i>Physical Review B</i> , 2016 , 94,	3.3	8
50	Phase transitions in a frustrated Ising antiferromagnet on a square lattice. <i>Physical Review E</i> , 2015 , 91, 032145	2.4	14
49	Thermodynamic and magnetocaloric properties of geometrically frustrated Ising nanoclusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 22-35	2.8	25
48	Frustrated mixed spin-1/2 and spin-1 Ising ferrimagnets on a triangular lattice. <i>Physical Review E</i> , 2015 , 91, 052138	2.4	4
47	Short-range correlations in modified planar rotator model. <i>Journal of Physics: Conference Series</i> , 2015 , 633, 012105	0.3	1
46	Mixed spin-1/2 and spin-1 Ising ferromagnets on a triangular lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 436, 509-518	3.3	17
45	Phase boundaries of a spin-3/2 Blume-Emery-Griffiths model on a honeycomb lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 354, 272-278	2.8	8
44	Thermodynamic description of the Ising antiferromagnet on a triangular lattice with selective dilution by a modified pair-approximation method. <i>Physical Review E</i> , 2014 , 89, 062140	2.4	10
43	Magnetocaloric properties of a frustrated Blume-Capel antiferromagnet. <i>EPJ Web of Conferences</i> , 2014 , 75, 09005	0.3	3
42	Low-Temperature Properties of Ising Antiferromagnet on a Stacked Triangular Lattice. <i>Acta Physica Polonica A</i> , 2014 , 126, 40-41	0.6	6
41	Domain Dynamics in Nonequilibrium Random-Field Ising Models. <i>Acta Physica Polonica A</i> , 2014 , 126, 38-39.6		
40	Magnetization and Susceptibility of a Diluted Triangular Ising Antiferromagnet in a Field. <i>Acta Physica Polonica A</i> , 2014 , 126, 16-17	0.6	4
39	Monte Carlo Study of a Spin-3/2 Blume-Emery-Griffiths Model on a Honeycomb Lattice. <i>Acta Physica Polonica A</i> , 2014 , 126, 36-37	0.6	3
38	Incommensurate Short-Range Order in $S = 1$ Triangular Lattice Ising Antiferromagnet. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 083001	1.5	3

37	Entropy of spin clusters with frustrated geometry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1773-1779	2.3	10
36	Reconstruction of missing data in remote sensing images using conditional stochastic optimization with global geometric constraints. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 785-806	3.5	10
35	Residual entropy of spin-s triangular Ising antiferromagnet. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	9
34	Critical properties of a spin-1 triangular lattice Ising antiferromagnet. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 1495-1498	0.6	5
33	A Directional Gradient-Curvature method for gap filling of gridded environmental spatial data with potentially anisotropic correlations. <i>Atmospheric Environment</i> , 2013 , 77, 901-909	5.3	7
32	Critical and tricritical behavior of a selectively diluted triangular Ising antiferromagnet in a field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 157-167	3.3	10
31	Phase transitions in a triangular Blume-Capel antiferromagnet. <i>Physical Review E</i> , 2013 , 87,	2.4	17
30	Low-temperature metastable states in a stacked triangular Ising antiferromagnet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 1731-1735	2.3	10
29	Effects of selective dilution on phase diagram and ground-state magnetizations of an Ising antiferromagnet on triangular and honeycomb lattices. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2687-2692	2.8	16
28	Ground states of the frustrated Blume-Emery-Griffiths model in a field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3649-3653	2.3	4
27	Relationships between correlation lengths and integral scales for covariance models with more than two parameters. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 11-19	3.5	24
26	Phase transition and compensation temperature in the mixed spin-1 and spin-1/2 anisotropic Heisenberg ferrimagnet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 1953-1960	3.3	13
25	Magnetic properties of the mixed spin-1/2 and spin-1/2 Ising ferrimagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 813-818	1.8	12
24	Critical temperature of a mixed ferro-ferrimagnetic ternary alloy. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 022005	0.3	8
23	Phase diagram of a diluted triangular lattice Ising antiferromagnet in a field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 4260-4264	2.3	20
22	Critical and compensation phenomena in a mixed-spin ternary alloy: A Monte Carlo study. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 2868-2873	2.8	33
21	Phase diagram of a mixed spin-1 and spin-1/2 Ising ferrimagnet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 5402-5407	3.3	34
20	Ordering in Triangular Lattice Ising Antiferromagnet Due to Dilution and Magnetic Field. <i>Acta Physica Polonica A</i> , 2010 , 118, 740-741	0.6	

19	Compensation temperatures and magnetic susceptibility of a mixed ferro-ferrimagnetic ternary alloy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 3197-3200	2.3	32
18	Classification of missing values in spatial data using spin models. <i>Physical Review E</i> , 2009 , 80, 011116	2.4	8
17	The Method of Normalized Correlations: A Fast Parameter Estimation Method for Random Processes and Isotropic Random Fields That Focuses on Short-Range Dependence. <i>Technometrics</i> , 2009 , 51, 173-185	1.4	10
16	Multilevel discretized random field models with spin correlations for the simulation of environmental spatial data. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02023	1.9	3
15	Environmental time series interpolation based on Spartan random processes. <i>Atmospheric Environment</i> , 2008 , 42, 7669-7678	5.3	13
14	Spartan random processes in time series modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 3995-4001	3.3	5
13	Low-temperature long-range ordering of a classical XY spin system with bilinear-biquadratic exchange Hamiltonian. <i>Physica B: Condensed Matter</i> , 2003 , 329-333, 1055-1056	2.8	3
12	Critical behavior of a three-dimensional plane rotator with frustration inducing higher-order interactions. <i>Physica B: Condensed Matter</i> , 2003 , 328, 377-385	2.8	4
11	Planar Heisenberg antiferromagnet with antiferroquadrupolar exchange on stacked triangular lattice: finite-size scaling. <i>Physica B: Condensed Matter</i> , 2002 , 322, 340-350	2.8	2
10	Role of ferroquadrupolar exchange in critical behavior of planar Heisenberg antiferromagnet with STL geometry. <i>Physica B: Condensed Matter</i> , 2002 , 324, 360-372	2.8	4
9	Histogram Monte Carlo simulation of the geometrically frustrated XY antiferromagnet with biquadratic exchange. <i>Physical Review B</i> , 2002 , 65,	3.3	5
8	Effect of biquadratic exchange on phase transitions of a planar classical Heisenberg ferromagnet. <i>Physica B: Condensed Matter</i> , 2001 , 304, 18-26	2.8	8
7	Monte Carlo simulation of the three-dimensional XY model with bilinear-biquadratic exchange interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 234, 320-330	2.8	5
6	Chiral universality class behavior of a nonchiral antiferroquadrupole system. <i>Physical Review B</i> , 2001 , 63,	3.3	7
5	Monte Carlo studies of critical and dynamic phenomena in diluted Ising metamagnet in a field. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 208, 120-130	2.8	12
4	Monte Carlo investigation of the tricritical point stability in a three-dimensional Ising metamagnet. <i>Physical Review B</i> , 2000 , 61, 50-53	3.3	16
3	Selective site dilution and percolation of Ising ferri- and meta-magnet in a field. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 192, 363-377	2.8	13
2	Thermal and percolative properties of a diluted Ising metamagnet in a field. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 188, 52-64	2.8	13

- 1 Phase diagrams and tricritical behaviour of a diluted Ising metamagnet in an external field. *Journal of Magnetism and Magnetic Materials*, **1997**, 170, 49-56 2.8 23