Milan Å½ukoviÄ•

List of Publications by Year
in descending order

93	853	516215 16	676716 22
papers	citations	h-index	g-index

93	93	93	342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Critical and compensation phenomena in a mixed-spin ternary alloy: A Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2010, 322, 2868-2873.	1.0	38
2	Phase diagram of a mixed spin-1 and spin- Ising ferrimagnet. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5402-5407.	1.2	38
3	Compensation temperatures and magnetic susceptibility of a mixed ferro-ferrimagnetic ternary alloy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3197-3200.	0.9	34
4	Thermodynamic and magnetocaloric properties of geometrically frustrated Ising nanoclusters. Journal of Magnetism and Magnetic Materials, 2015, 374, 22-35.	1.0	29
5	Relationships between correlation lengths and integral scales for covariance models with more than two parameters. Stochastic Environmental Research and Risk Assessment, 2011, 25, 11-19.	1.9	28
6	Phase diagrams and tricritical behaviour of a diluted Ising metamagnet in an external field. Journal of Magnetism and Magnetic Materials, 1997, 170, 49-56.	1.0	24
7	Mixed spin-1/2 and spin-1 Ising ferromagnets on a triangular lattice. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 509-518.	1.2	22
8	Phase transitions in a frustrated Ising antiferromagnet on a square lattice. Physical Review E, 2015, 91, 032145.	0.8	21
9	Phase diagram of a diluted triangular lattice Ising antiferromagnet in a field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4260-4264.	0.9	20
10	Monte Carlo investigation of the tricritical point stability in a three-dimensional Ising metamagnet. Physical Review B, 2000, 61, 50-53.	1.1	18
11	Phase transitions in a triangular Blume-Capel antiferromagnet. Physical Review E, 2013, 87, .	0.8	18
12	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.	0.8	18
13	Magnetization process and magnetocaloric effect in geometrically frustrated Ising antiferromagnet and spin ice models on a â€˜Star of Davidâ€™ nanocluster. Journal of Magnetism and Magnetic Materials, 2018, 451, 311-318.	1.0	18
14	Magnetic properties of the mixed spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0017.gif" overflow="scroll"><mml:mfrac><mml:mrow><mml:mn>3</mml:mn></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ and spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0018.gif" overflow="scroll"><mml:mfrac><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ anisotropic Heisenberg model. Journal of Magnetism and Magnetic Materials, 2011, 323, 813-818.	1.0	17
15	altimg="si40.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/	1.2	16
16	Effects of selective dilution on phase diagram and ground-state magnetizations of an Ising antiferromagnet on triangular and honeycomb lattices. Journal of Magnetism and Magnetic Materials, 2012, 324, 2687-2692.	1.0	16
17	Thermal and percolative properties of a diluted Ising metamagnet in a field. Journal of Magnetism and Magnetic Materials, 1998, 188, 52-64.	1.0	14
18	Reconstruction of missing data in remote sensing images using conditional stochastic optimization with global geometric constraints. Stochastic Environmental Research and Risk Assessment, 2013, 27, 785-806.	1.9	14

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19	Magnetocaloric properties of frustrated tetrahedra-based spin nanoclusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2525-2534.	0.9	14
20	Stability of skyrmion crystal phase in antiferromagnetic triangular lattice with DMI and single-ion anisotropy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168840.	1.0	14
21	Selective site dilution and percolation of Ising ferri- and meta-magnet in a field. Journal of Magnetism and Magnetic Materials, 1999, 192, 363-377.	1.0	13
22	Monte Carlo studies of critical and dynamic phenomena in diluted Ising metamagnet in a field. Journal of Magnetism and Magnetic Materials, 2000, 208, 120-130.	1.0	13
23	Environmental time series interpolation based on Spartan random processes. Atmospheric Environment, 2008, 42, 7669-7678.	1.9	13
24	Classification of missing values in spatial data using spin models. Physical Review E, 2009, 80, 011116.	0.8	12
25	Residual entropy of spin-s triangular Ising antiferromagnet. European Physical Journal B, 2013, 86, 1.	0.6	12
26	Critical behavior of a triangular lattice Ising AF/FM bilayer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1087-1092.	0.9	12
27	Phase diagram of the <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:ms frustrated anisotropic antiferromagnet with spin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> on the quadratic lattice. Physical Review E, 2018, 98, 022123.	0.8	12
28	Formation and growth of skyrmion crystal phase in a frustrated Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interaction. Journal of Magnetism and Magnetic Materials, 2021, 527, 167755.	1.0	12
29	The Method of Normalized Correlations: A Fast Parameter Estimation Method for Random Processes and Isotropic Random Fields That Focuses on Short-Range Dependence. Technometrics, 2009, 51, 173-185.	1.3	11
30	Low-temperature metastable states in a stacked triangular Ising antiferromagnet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1731-1735.	0.9	11
31	Thermodynamic description of the Ising antiferromagnet on a triangular lattice with selective dilution by a modified pair-approximation method. Physical Review E, 2014, 89, 062140.	0.8	11
32	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow> model with higher-order exchange. Physical Review E, 2017, 96, 022158.	0.8	11
33	Critical temperature of a mixed ferro-ferrimagnetic ternary alloy. Journal of Physics: Conference Series, 2010, 200, 022005.	0.3	10
34	Critical and tricritical behavior of a selectively diluted triangular Ising antiferromagnet in a field. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 157-167.	1.2	10
35	Entropy of spin clusters with frustrated geometry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1773-1779.	0.9	10
36	Critical properties of the frustrated Ising model on a honeycomb lattice: A Monte Carlo study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 404, 127405.	0.9	10

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37	Effect of biquadratic exchange on phase transitions of a planar classical Heisenberg ferromagnet. Physica B: Condensed Matter, 2001, 304, 18-26.	1.3	9
38	Tricritical behaviour of the frustrated Ising antiferromagnet on the honeycomb lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2693-2697.	0.9	9
39	Gibbs Markov random fields with continuous values based on the modified planar rotator model. Physical Review E, 2018, 98, .	0.8	9
40	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.	1.2	9
41	Chiral universality class behavior of a nonchiral antiferroquadrupole system. Physical Review B, 2001, 63, .	1.1	8
42	A Directional Gradient-Curvature method for gap filling of gridded environmental spatial data with potentially anisotropic correlations. Atmospheric Environment, 2013, 77, 901-909.	1.9	8
43	Phase boundaries of a spin-3/2 Blumeâ€“Emeryâ€“Griffiths model on a honeycomb lattice. Journal of Magnetism and Magnetic Materials, 2014, 354, 272-278.	1.0	8
44	GPU-Accelerated Population Annealing Algorithm: Frustrated Ising Antiferromagnet on the Stacked Triangular Lattice. EPJ Web of Conferences, 2016, 108, 02016.	0.1	8
45	Frustrated ground states of a generalizedXYmodel and their mapping to nonmagnetic structural analogs. Physical Review B, 2016, 94, .	1.1	8
46	Magnetic quasi-long-range ordering in nematic systems due to competition between higher-order couplings. Physical Review E, 2018, 97, 052101.	0.8	8
47	Histogram Monte Carlo simulation of the geometrically frustratedXYantiferromagnet with biquadratic exchange. Physical Review B, 2002, 65, .	1.1	7
48	Multilevel discretized random field models with â€˜spinâ€™ correlations for the simulation of environmental spatial data. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02023.	0.9	7
49	Low-Temperature Properties of Ising Antiferromagnet on a Stacked Triangular Lattice. Acta Physica Polonica A, 2014, 126, 40-41.	0.2	6
50	Frustrated mixed spin-1/2 and spin-1 Ising ferrimagnets on a triangular lattice. Physical Review E, 2015, 91, 052138.	0.8	6
51	Multiple phase transitions in the XY model with nematic-like couplings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2618-2621.	0.9	6
52	Emergence of a Skyrmion Phase in a Frustrated Heisenberg Antiferromagnet with Dzyaloshinskii-Moriya Interaction. Acta Physica Polonica A, 2020, 137, 616-618.	0.2	6
53	Monte Carlo simulation of the three-dimensional XY model with bilinearâ€“biquadratic exchange interaction. Journal of Magnetism and Magnetic Materials, 2001, 234, 320-330.	1.0	5
54	Spartan random processes in time series modeling. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3995-4001.	1.2	5

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55	Ground states of the frustrated Blumeâ€“Emeryâ€“Griffiths model in a field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3649-3653.	0.9	5
56	Critical properties of a spin-1 triangular lattice ising antiferromagnet. Journal of the Korean Physical Society, 2013, 62, 1495-1498.	0.3	5
57	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml: model with antinematic interaction. Physical Review E, 2019, 99, 062112.	0.8	5
58	GPU-Accelerated Simulation of Massive Spatial Data Based on the Modified Planar Rotator Model. Mathematical Geosciences, 2020, 52, 123-143.	1.4	5
59	New ordered phase in geometrically frustrated generalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml: model. Physical Review E, 2020, 102, 032113.	0.8	5
60	Effect of Single-Ion Anisotropy on Magnetocaloric Properties of Frustrated Spin-s Ising Nanoclusters. Magnetochemistry, 2020, 6, 56.	1.0	5
61	Absence of long-range order in a general spin-S kagome lattice Ising antiferromagnet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126615.	0.9	5
62	Enhanced Magnetocaloric Effect due to Selective Dilution in a Triangular Ising Antiferromagnet. Acta Physica Polonica A, 2017, 131, 645-647.	0.2	5
63	Role of ferroquadrupolar exchange in critical behavior of planar Heisenberg antiferromagnet with STL geometry. Physica B: Condensed Matter, 2002, 324, 360-372.	1.3	4
64	Critical behavior of a three-dimensional plane rotator with frustration inducing higher-order interactions. Physica B: Condensed Matter, 2003, 328, 377-385.	1.3	4
65	Magnetization and Susceptibility of a Diluted Triangular Ising Antiferromagnet in a Field. Acta Physica Polonica A, 2014, 126, 16-17.	0.2	4
66	Magnetocaloric properties of a frustrated Blume-Capel antiferromagnet. EPJ Web of Conferences, 2014, 75, 09005.	0.1	4
67	Phase diagrams of the antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml: model on a triangular lattice with higher-order interactions. Physical Review E, 2021, 104, 024134.	0.8	4
68	Ising Model for Interpolation of Spatial Data on Regular Grids. Entropy, 2021, 23, 1270.	1.1	4
69	Exact Diagonalization Study of an Extended Hubbard Model for a Cubic Cluster at Quarter Filling. Acta Physica Polonica A, 2017, 131, 1012-1014.	0.2	4
70	Magnetocaloric Properties of an Ising Antiferromagnet on a Kagome Lattice. Acta Physica Polonica A, 2020, 137, 622-624.	0.2	4
71	Absence of long-range order in a three-dimensional stacked Ising antiferromagnet on kagome lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 430, 127975.	0.9	4
72	Low-temperature long-range ordering of a classical XY spin system with bilinear-biquadratic exchange Hamiltonian. Physica B: Condensed Matter, 2003, 329-333, 1055-1056.	1.3	3

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73	Monte Carlo Study of a Spin-3/2 Blume-Emery-Griffiths Model on a Honeycomb Lattice. Acta Physica Polonica A, 2014, 126, 36-37.	0.2	3
74	Incommensurate Short-Range Order in S = 1 Triangular Lattice Ising Antiferromagnet. Journal of the Physical Society of Japan, 2014, 83, 083001.	0.7	3
75	Thermodynamic and critical properties of an antiferromagnetically stacked triangular Ising antiferromagnet in a field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1305-1311.	0.9	3
76	Theoretical Study of the Frustrated Ising Antiferromagnet on the Honeycomb Lattice. Acta Physica Polonica A, 2017, 131, 636-638.	0.2	3
77	Spin-Glass-Like Ordering in a Frustrated J₁-J₂ Ising Antiferromagnet on a Honeycomb Lattice. Acta Physica Polonica A, 2020, 137, 619-621.	0.2	3
78	Planar Heisenberg antiferromagnet with antiferroquadrupolar exchange on stacked triangular lattice: finite-size scaling. Physica B: Condensed Matter, 2002, 322, 340-350.	1.3	2
79	Short-range correlations in modified planar rotator model. Journal of Physics: Conference Series, 2015, 633, 012105.	0.3	2
80	Ordering phenomena in a heterostructure of frustrated and unfrustrated triangular-lattice Ising layers. Physical Review E, 2017, 96, 012145.	0.8	2
81	Understanding of Exchange Bias in Ferromagnetic/Antiferromagnetic Bilayers. , 2017, , 205-231.		2
82	Magnetism of the Diluted Ising Antiferromagnet in a Magnetic Field on the Kagome Lattice: Single-Spin Cluster Approximation. Acta Physica Polonica A, 2020, 137, 628-630.	0.2	2
83	First-order transition inXYmodel with higher-order interactions. Journal of Physics: Conference Series, 2017, 936, 012016.	0.3	1
84	Efficient and Scalable Approach to Equilibrium Conditional Simulation of Gibbs Markov Random Fields. EPJ Web of Conferences, 2020, 226, 02023.	0.1	1
85	Ordering in Triangular Lattice Ising Antiferromagnet Due to Dilution and Magnetic Field. Acta Physica Polonica A, 2010, 118, 740-741.	0.2	1
86	Dynamics of episodic transient correlations in currency exchange rate returns and their predictability. Open Physics, 2012, 10, .	0.8	0
87	Domain Dynamics in Nonequilibrium Random-Field Ising Models. Acta Physica Polonica A, 2014, 126, 38-39.	0.2	0
88	Global Thermodynamic Properties of Complex Spin Systems Calculated from Density of States and Indirectly by Thermodynamic Integration Method. EPJ Web of Conferences, 2020, 226, 02019.	0.1	0
89	Numerical Precision Effects on GPU Simulation of Massive Spatial Data, Based on the Modified Planar Rotator Model. EPJ Web of Conferences, 2020, 226, 02015.	0.1	0
90	An Algorithm For Spatial Data Classification And Automatic Mapping Based On "Spin" Correlations. , 2008, , .		0

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91	Magnetization Curves of Geometrically Frustrated Exchange-Biased FM/AFM Bilayers. Acta Physica Polonica A, 2017, 131, 642-644.	0.2	0
92	Phase Diagram of a Generalized XY Model with Geometrical Frustration. Acta Physica Polonica A, 2020, 137, 613-615.	0.2	0
93	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml:math> model with competing higher-order interactions. Physical Review E, 2022, 105, 034129.	2.4	0