

# Ihor Pylyuk

## List of Publications by Year in descending order

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28  
papers

131  
citations

1307594

7  
h-index

1372567

10  
g-index

28  
all docs

28  
docs citations

28  
times ranked

8  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of three-dimensional Ising-like systems in the higher non-Gaussian approximation: Calculational method and dependence on microscopic parameters. Physical Review B, 2002, 66, .	3.2	19
2	Free energy and equation of state of Ising-like magnet near the critical point. Nuclear Physics B, 2006, 753, 242-251.	2.5	11
3	Entropy and specific heat of the 3D ising model as functions of temperature and microscopic parameters of the system. Physica Status Solidi (B): Basic Research, 1994, 183, 243-249.	1.5	10
4	Microscopic description of the critical behavior of three-dimensional Ising-like systems in an external field. Physical Review B, 2006, 73, .	3.2	10
5	Method of calculating the critical temperature of three-dimensional Ising-like system using the non-gaussian distribution. Physica Status Solidi (B): Basic Research, 1996, 197, 465-477.	1.5	9
6	The equation of state of a cell fluid model in the supercritical region. Condensed Matter Physics, 2018, 21, 43502.	0.7	8
7	Critical behaviour of a three-dimensional one-component magnet in strong and weak external fields at. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 562-576.	2.6	7
8	Study of the critical behaviour of three-dimensional Ising-like systems on the basis of the $\hat{A}6$ model with allowance for microscopic parameters: II. Low-temperature region. Journal of Physics Condensed Matter, 2002, 14, 11701-11715.	1.8	6
9	Using a Cell Fluid Model for the Description of a Phase Transition in Simple Liquid Alkali Metals. Ukrainian Journal of Physics, 2017, 62, 865-873.	0.2	6
10	Equation of state of the 3D Ising model with an exponentially decreasing potential in the external field. Journal of Magnetism and Magnetic Materials, 1997, 169, 335-342.	2.3	5
11	Description of critical behavior of Ising ferromagnet in the $\hat{A}6$ model approximation taking into account confluent correction. I. Region above the phase transition point. Low Temperature Physics, 1999, 25, 877-888.	0.6	5
12	Study of the critical behaviour of three-dimensional Ising-like systems on the basis of the $\hat{A}6$ model with allowance for microscopic parameters: I. High-temperature region. Journal of Physics Condensed Matter, 2002, 14, 10113-10129.	1.8	5
13	Three-dimensional Ising-like system in an external field. Microscopic approach to description of the critical behaviour using the asymmetric model. Journal of Magnetism and Magnetic Materials, 2006, 305, 216-220.	2.3	5
14	Analytic Method of Calculating Thermodynamic Functions for Ising-Like System in an External Field. Ferroelectrics, 2005, 317, 43-47.	0.6	4
15	Calculation of free energy of a three-dimensional Ising-like system in an external field with the use of the model. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5390-5401.	2.6	4
16	Thermodynamic functions of three-dimensional ising model near the phase transition point with allowance for corrections to scaling. II. The case $T < T_C$ . Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 00gBT /Over a lock 10 Tf		
17	Equation of state for the 3-D Ising model from microscopic level calculations. Theoretical and Mathematical Physics(Russian Federation), 1996, 107, 650-666.	0.9	3
18	Critical behavior of the three-dimensional ising system: Dependence of thermodynamic characteristics on microscopic parameters. Theoretical and Mathematical Physics(Russian Federation), 1998, 117, 1459-1482.	0.9	3

#	ARTICLE	IF	CITATIONS
19	Thermodynamic functions of three-dimensional Ising model near the phase transition point with allowance for corrections to scaling. I. The case $T > T_c$ . Theoretical and Mathematical Physics (Russian) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	2
20	Description of critical behavior of Ising ferromagnet in the $\tilde{I}^6$ model approximation taking into account the confluent correction. II. Region below the phase transition point. Low Temperature Physics, 1999, 25, 953-961.	0.6	2
21	Three-dimensional Ising-like system in an external field: Microscopic calculation of the free energy in the higher non-Gaussian approximation. Phase Transitions, 2007, 80, 11-16.	1.3	2
22	Critical behavior of a 3D Ising-like system in the higher non-Gaussian approximation: Inclusion of the critical exponent of the correlation function. International Journal of Modern Physics B, 2014, 28, 1450160.	2.0	2
23	Calculation of free energy of three-dimensional uniaxial magnet in external field based on the higher non-Gaussian distribution. , 2009, , .		0
24	Structural characteristics of a three-dimensional Ising-like system in the critical region. International Journal of Modern Physics B, 2016, 30, 1650232.	2.0	0
25	Critical behaviour of a 3D Ising-like system in the $\tilde{I}^6$ model approximation: Role of the correction for the potential averaging. Condensed Matter Physics, 2012, 15, 43006.	0.7	0
26	Order parameter of a three-dimensional Ising-like system in the simplest and higher non-Gaussian approximations. Condensed Matter Physics, 2013, 16, 23007.	0.7	0
27	Analytical Description of the Critical Behavior of a Three-Dimensional Uniaxial Magnet in an External Field by Singling out a Reference System. Ukrainian Journal of Physics, 2015, 60, 362-362.	0.2	0
28	Correlation Function and Susceptibility of Ising Magnet in a Vicinity of the Phase Transition Point. Ukrainian Journal of Physics, 2015, 60, 1075-1081.	0.2	0