

Ihor Yukhnovskii

List of Publications by Year in descending order

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57
papers

313
citations

933447

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1058476

14
g-index

61
all docs

61
docs citations

61
times ranked

51
citing authors

#	ARTICLE	IF	CITATIONS
1	Grand canonical distribution for multicomponent system in the collective variables method. Journal of Statistical Physics, 1995, 81, 647-672.	1.2	21
2	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
3	Partition function of the three-dimensional Ising model. Theoretical and Mathematical Physics(Russian Federation), 1978, 36, 798-815.	0.9	16
4	Solution of the three-dimensional Ising model for description of the second-order phase transition. Rivista Del Nuovo Cimento, 1989, 12, 1-119.	5.7	15
5	Calculation of the Free Energy and the Pair Correlation Functions of Disordered Binary Alloys by the Method of Collective Variables. Physica Status Solidi (B): Basic Research, 1991, 163, 107-118.	1.5	14
6	Sevaration of ?normal? and ?superfluid? mctions in the schrodinger equation by means of the method of displacements and collective variables. Theoretical and Mathematical Physics(Russian Federation), 1974, 18, 63-75.	0.9	13
7	Microscopic theory of the energy spectrum of liquid He II. Theoretical and Mathematical Physics(Russian Federation), 1980, 42, 73-80.	0.9	13
8	The functional of the grand partition function for the investigation of the liquid-gas critical point. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 999-1020.	2.6	11
9	A Method for the Calculation of Thermodynamic Functions for the 3 D Model Systems in the Critical Region. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1991, 46, 1-7.	1.5	11
10	Self-consistent description of long-range and short-range correlations in the theory of liquid He4. I. Theoretical and Mathematical Physics(Russian Federation), 1979, 40, 626-633.	0.9	10
11	Investigation of a homogeneous many-particle system in the vicinity of the critical point. Journal of Statistical Physics, 1995, 80, 405-443.	1.2	9
12	The phase transition of the first order in the critical region of the gas-liquid system. Condensed Matter Physics, 2014, 17, 43001.	0.7	9
13	Approximate renormalization group transformation in the theory of phase transitions. I. Differential equation of the renormalization group. Theoretical and Mathematical Physics(Russian Federation), 1982, 50, 204-209.	0.9	7
14	The Investigation of the Ferroelectric Phase Transition in Cluster Systems of Orderâ€“Disorder Type. Physica Status Solidi (B): Basic Research, 1989, 153, 583-593.	1.5	7
15	Functional of the grand partition function in the method of collective variables with distinguished reference system. Multicomponent system. Theoretical and Mathematical Physics(Russian Federation), 1990, 83, 387-395.	0.9	7
16	Cluster expansion method in the theory of equilibrium properties of a gas of atoms of which a part is excited. Physica A: Statistical Mechanics and Its Applications, 1994, 203, 381-413.	2.6	6
17	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
18	BBCKY chain of kinetic equations, non-equilibrium statistical operator method and collective variable method in the statistical theory of non-equilibrium liquids. Condensed Matter Physics, 2016, 19, 43705.	0.7	6

#	ARTICLE	IF	CITATIONS
37	Generalized hierarchical model of a scalar ferromagnet in the method of collective variables. Theoretical and Mathematical Physics(Russian Federation), 1982, 51, 490-497.	0.9	1
38	Theory of the spontaneous polarization of the adsorbed monolayer of polar molecules. The collective variables method. Journal of Statistical Physics, 1985, 38, 541-572.	1.2	1
39	Phase transitions in two-component spatially homogeneous systems. I. Gaussian approximation of the partition function. Theoretical and Mathematical Physics(Russian Federation), 1987, 72, 998-1005.	0.9	1
40	Problems of interaction between water and fuel containing masses inside the object "Shelter" of Chernobyl Nuclear Power Plant. Journal of Physical Studies, 1997, 1, 169-180.	0.5	1
41	ON THE DESCRIPTION OF STRUCTURAL DISTRIBUTION AND DIFFUSION OF RADIOACTIVE ELEMENTS IN THE SYSTEM "GLASSY NUCLEAR MAGMA-WATER". Condensed Matter Physics, 1997, , 153.	0.7	1
42	Mykola Bogolyubov and Lviv School of Statistical Physics. Condensed Matter Physics, 2009, 12, 535-537.	0.7	1
43	PHYSICAL PROCESSES IN THE FUEL CONTAINING MASSES INTERACTING WITH AQUEOUS SOLUTIONS IN THE "SHELTER" OBJECT. INHOMOGENEOUS DIFFUSION OF IONS UO_{2}^{2+} , Cs^{+} IN THE SYSTEM "GLASSY NUCLEAR MAGMA - WATER". Condensed Matter Physics, 1999, 2, 351.	0.7	1
44	Analysis of chemical reactions of β -radiolysis, hydrolysis and complex formation in alkali solutions of the object "Shelter". Investigations of transfer coefficients of UO_{2}^{2+} , PuO_{2}^{2+} ions in aqueous solutions. Journal of Physical Studies, 1999, 3, 224-236.	0.5	1
45	Binary distribution function of degenerate fermi systems. Theoretical and Mathematical Physics(Russian Federation), 1973, 17, 1030-1039.	0.9	0
46	Investigation of the binary distribution function of a degenerate electron gas at short distances. Theoretical and Mathematical Physics(Russian Federation), 1973, 17, 1126-1135.	0.9	0
47	The investigation of critical behaviour of uniaxial cluster ferroelectrics. Ferroelectrics, Letters Section, 1988, 8, 117-120.	1.0	0
48	Investigation in the Vicinity of the Critical Point. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1988, 43, 734-740.	1.5	0
49	Thermodynamic functions of a two-component spatially homogeneous system near the critical separation point. Theoretical and Mathematical Physics(Russian Federation), 1989, 81, 1329-1338.	0.9	0
50	DmitriĀ-Nikolaevich Zubarev (Obituary). Physics-Uspekhi, 1993, 36, 195-196.	2.2	0
51	Description of the phase transition in 3D systems. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1477-1478.	2.3	0
52	Anatoly Glibovych Zagorodny (to the 70th anniversary of his birth). Ukrainian Journal of Physics, 2021, 66, 87.	0.2	0
53	A DESCRIPTION OF THE LIQUID " GAS CRITICAL POINT VICINITY OF SIMPLE REAL SYSTEMS BY THE COLLECTIVE VARIABLES METHOD I. THE REFERENCE SYSTEM AND $T > T_{c}$ REGION. Condensed Matter Physics, 1993, , 5.	0.7	0
54	THE STUDY OF QUASISPIN SYSTEMS IN REFERENCE SYSTEM APPROACH. Condensed Matter Physics, 1993, , 43.	0.7	0

#	ARTICLE	IF	CITATIONS
55	A description of the critical point of simple fluids in the collective variables method. Condensed Matter Physics, 1995, , 137.	0.7	0
56	FROM THE ORGANIZING COMMITTEE OF THE INTERNATIONAL WORKSHOP "AQUEOUS SOLUTIONS: THE PROBLEMS OF RADIOACTIVE IMPURITIES" (Lviv, December 7-8, 1996). Condensed Matter Physics, 1997, , 3.	0.7	0
57	A Prominent Representative of the New Generation of Ukrainian Physicists (to the 60th birthday of) Tj ETQq1 1 0.784314 rgBT /Overlaid	0.2	0