Ihor Yukhnovskii

List of Publications by Year
in descending order

57 papers	313 citations	933447 10 h-index	1058476 14 g-index
61 all docs	61 docs citations	61 times ranked	51 citing authors

#	Article	IF	Citations
1	Anatoly Glibovych Zagorodny (to the 70th anniversary of his birth). Ukrainian Journal of Physics, 2021, 66, 87.	0.2	0
2	A Prominent Representative of the New Generation of Ukrainian Physicists (to the 60th birthday of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	0
3	Phase Space of Collective Variables and the Zubarev Transition Function. Theoretical and Mathematical Physics(Russian Federation), 2018, 194, 189-219.	0.9	3
4	BBGKY 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
5	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
6	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
7	Liquid gas phase transition at and below the critical point. Condensed Matter Physics, 2013, 16, 23604.	0.7	3
8	Mykola Bogolyubov and Lviv School of Statistical Physics. Condensed Matter Physics, 2009, 12, 535-537.	0.7	1
9	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
10	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
11	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
12	Statistical theory for diffusion of radionuclides in ground and subterranean water. Radiation Physics and Chemistry, 2000, 59, 361-375.	2.8	4
13	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
14	Analysis of chemical reactions of Î±-radiolysis, hydrolysis and complex formation in alkali solutions of the object â€ŸShelterâ€¢ Investigations of transfer coefficients of UO22+, PuO22+ ions in aqueous solutions. Journal of Physical Studies, 1999, 3, 224-236.	0.5	1
15	On the Theory of Phase Transitions by the Collective Variables Methods. International Journal of Modern Physics B, 1997, 11, 1009-1022.	2.0	2
16	Problems of interaction between water and fuel containing masses inside the object â€ŸShelterâ€¢of Chornobyl Nuclear Power Plant. Journal of Physical Studies, 1997, 1, 169-180.	0.5	1
17	STUDIES ON NONEQUILIBRIUM PHYSICO-CHEMICAL PROCESSES IN THE SYSTEM "FUEL CONTAINING MASSES - AQUEOUS SOLUTIONS OF RADIOACTIVE ELEMENTS". Condensed Matter Physics, 1997, , 63.	0.7	2
18	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

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19	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
20	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
21	Grand canonical distribution for multicomponent system in the collective variables method. Journal of Statistical Physics, 1995, 81, 647-672.	1.2	21
22	Description of the phase transition in 3D systems. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1477-1478.	2.3	0
23	A description of the critical point of simple fluids in the collective variables method. Condensed Matter Physics, 1995, , 137.	0.7	0
24	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
25	DmitriÄ-Nikolaevich Zubarev (Obituary). Physics-Uspekhi, 1993, 36, 195-196.	2.2	0
26	A DESCRIPTION OF THE LIQUID â€" 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
27	THE STUDY OF QUASISPIN SYSTEMS IN REFERENCE SYSTEM APPROACH. Condensed Matter Physics, 1993, , 43.	0.7	0
28	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
29	Thermodynamic functions of three-dimensional ising model near the phase transition point with allowance for corrections to scaling. I. The case T>Tc. Theoretical and Mathematical Physics(Russian)	0.7	0
30	Thermodynamic functions of three-dimensional ising model near the phase transition point with allowance for corrections to scaling. II. The case T<TC. Theoretical and Mathematical Physics(Russian)		
31	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
32	The Investigation of the Ferroelectric Phase Transition in Cluster Systems of Orderâ€Disorder Type III. Free Energy. Physica Status Solidi (B): Basic Research, 1991, 163, 355-367.	1.5	4
33	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
34	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
35	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
36	Order parameters and the free energy of the three-dimensional ising model below the transition temperature. Theoretical and Mathematical Physics(Russian Federation), 1989, 79, 437-444.	0.9	2

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37	Method of collective variables with references system for the grand canonical ensemble. Theoretical and Mathematical Physics(Russian Federation), 1989, 79, 536-546.	0.9	2
38	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
39	Resonance irradiation influence on the gas-liquid phase transition. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 18-24.	2.1	3
40	The Investigation of the Ferroelectric Phase Transition in Cluster Systems of Order–Disorder Type. Physica Status Solidi (B): Basic Research, 1989, 153, 583-593.	1.5	7
41	The Investigation of the Ferroelectric Phase Transition in Cluster Systems of Order-Disordered Type. II. Two-Particle Cluster System. Physica Status Solidi (B): Basic Research, 1989, 154, 519-534.	1.5	3
42	The investigation of critical behaviour of uniaxial cluster ferroelectrics. Ferroelectrics, Letters Section, 1988, 8, 117-120.	1.0	0
43	Investigation in the Vicinity of the Critical Point. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1988, 43, 734-740.	1.5	0
44	Liquid-gas critical point in the method of collective variables. Theoretical and Mathematical Physics(Russian Federation), 1987, 73, 1204-1217.	0.9	2
45	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
46	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
47	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
48	The method of collective variables in the equilibrium statistical theory of bounded systems of charged particles I. Continuum model of an electrolyte solution occupying a half-space. Theoretical and Mathematical Physics(Russian Federation), 1982, 52, 691-699.	0.9	4
49	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
50	Microscopic theory of the energy spectrum of liquid He II. Theoretical and Mathematical Physics(Russian Federation), 1980, 42, 73-80.	0.9	13
51	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
52	Partition function of the three-dimensional Ising model. Theoretical and Mathematical Physics(Russian Federation), 1978, 36, 798-815.	0.9	16
53	Distribution function of a degenerate electron gas in a periodic external field. Theoretical and Mathematical Physics(Russian Federation), 1977, 32, 694-704.	0.9	1
54	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

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55	Binary distribution function of degenerate fermi systems. Theoretical and Mathematical Physics(Russian Federation), 1973, 17, 1030-1039.	0.9	0
56	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
57	Das entartete Elektronengas in der Methode der kollektiven Variablen. Annalen Der Physik, 1970, 479, 188-199.	2.4	4