Victor Maslov

List of Publications by Citations

285 papers	1,714 citations	19 h-index	28 g-index
292 ext. papers	1,826 ext. citations	0.7 avg, IF	5.61 L-index

#	Paper	IF	Citations
285	Idempotent Analysis and Its Applications **1997**,		138
284	Undistinguishing statistics of objectively distinguishable objects: Thermodynamics and superfluidity of classical gas. *Mathematical Notes*, **2013**, 94, 722-813	0.5	51
283	Stationary-phase method for Feynman's continual integral. *Theoretical and Mathematical Physics(Russian Federation)*, **1970**, 2, 21-25	0.7	43
282	Propagation of shock waves in an isentropic, nonviscous gas. *Journal of Soviet Mathematics*, **1980**, 13, 119-163		36
281	Revision of probability theory from the point of view of quantum statistics. *Russian Journal of Mathematical Physics*, **2007**, 14, 66-95	1.4	33
280	Zeroth-Order Phase Transitions. *Mathematical Notes*, **2004**, 76, 697-710	0.5	28
279	Algebras with general commutation relations and their applications. II. Unitary-nonlinear operator equations. *Journal of Soviet Mathematics*, **1981**, 15, 273-368		27
278	Idempotent analysis as a tool of control theory and optimal synthesis. I. *Functional Analysis and Its Applications*, **1989**, 23, 1-11	0.4	26
277	Finite-zone, almost-periodic solutions in WKB approximations. *Journal of Soviet Mathematics*, **1981**, 16, 1433-1487		26
276	On the superfluidity of classical liquid in nanotubes, I. Case of even number of neutrons. *Russian Journal of Mathematical Physics*, **2007**, 14, 304-318	1.4	24
275	On Minimization and Maximization of Entropy in Various Disciplines. *Theory of Probability and Its Applications*, **2004**, 48, 447-464	0.5	24
274	Theory of chaos and its application to the crisis of debts and the origin of inflation. *Russian Journal of Mathematical Physics*, **2009**, 16, 103-120	1.4	23
273	On the appearance of the Ӻpoint in a weakly nonideal Bose gas and the two-liquid Thiess-Landau model. *Russian Journal of Mathematical Physics*, **2009**, 16, 146-165	1.4	22
272	Quantum linguistic statistics. *Russian Journal of Mathematical Physics*, **2006**, 13, 315-325	1.4	22
271	Threshold levels in economics and time series. *Mathematical Notes*, **2009**, 85, 305-321	0.5	21
270	Nonlinear Averages in Economics. *Mathematical Notes*, **2005**, 78, 347-363	0.5	20
269	Solution of the gibbs paradox using the notion of entropy as a function of the fractal dimension. *Russian Journal of Mathematical Physics*, **2010**, 17, 288-306	1.4	19

268	On the distribution of integer random variables related by a certain linear inequality: I. *Mathematical Notes*, **2008**, 83, 211-237	0.5	19
267	Asymptotic fast-decreasing solutions of linear, strictly hyperbolic systems with variable coefficients. *Mathematical Notes*, **1991**, 49, 355-365	0.5	19
266	General theory of the solutions of the equations of motion of an elastic medium of different moduli. *Prikladnaya Matematika I Mekhanika*, **1985**, 49, 322-336		19
265	Generalized measure in Feynman path integrals. *Theoretical and Mathematical Physics(Russian Federation)*, **1976**, 28, 793-805	0.7	19
264	Splitting of the lowest energy levels of the Schrödinger equation and asymptotic behavior of the fundamental solution of the equation hut=h2Δ/2−V(x)u. *Theoretical and Mathematical Physics(Russian Federation)*, **1991**, 87, 561-599	0.7	18
263	Case of less than two degrees of freedom, negative pressure, and the Fermi–Dirac distribution for a hard liquid. *Mathematical Notes*, **2015**, 98, 138-157	0.5	17
262	Theorems on the debt crisis and the occurrence of inflation. *Mathematical Notes*, **2009**, 85, 146-150	0.5	17
261	Old mathematical errors in statistical physics. *Russian Journal of Mathematical Physics*, **2013**, 20, 214-229	1.4	16
260	On an ideal gas related to the law of corresponding states. *Russian Journal of Mathematical Physics*, **2010**, 17, 240-250	1.4	16
259	On the superfluidity of classical liquid in nanotubes, II. Case of odd number of neutrons. *Russian Journal of Mathematical Physics*, **2007**, 14, 453-464	1.4	16
258	Thermodynamic equations of state with three defining constants. *Mathematical Notes*, **2010**, 87, 728-737	0.5	15
257	Application of the method of ordered operators to obtain exact solutions. *Theoretical and Mathematical Physics(Russian Federation)*, **1977**, 33, 960-976	0.7	15
256	New look at thermodynamics of gas and at clusterization. *Russian Journal of Mathematical Physics*, **2008**, 15, 493-510	1.4	14
255	Idempotent mathematics: a correspondence principle and its applications to computing. *Russian Mathematical Surveys*, **1996**, 51, 1210-1211	1.2	14
254	Logarithmic asymptotic of rapidly decreasing solutions of Petrovskii hyperbolic equations. *Mathematical Notes*, **1989**, 45, 382-391	0.5	14
253	What I Learned from B. M. Levitan. *Mathematical Notes*, **2014**, 96, 3-9	0.5	13
252	Mixture of new ideal gases and the solution of the Gibbs and Einstein paradoxes. *Russian Journal of Mathematical Physics*, **2011**, 18, 83-101	1.4	13
251	Thermodynamics of fluids for imperfect gases with Lennard-Jones interaction potential. I. *Mathematical Notes*, **2009**, 86, 522-529	0.5	13

250	Thermodynamics of fluids for imperfect gases with Lennard-Jones interaction potential: II (law of redistribution of energies). *Mathematical Notes*, **2009**, 86, 605-611	0.5	13
249	Rapidly oscillating asymptotic solutions of the Navier-Stokes equations, coherent structures, Fomenko invariants, Kolmogorov spectrum, and flicker noise. *Russian Journal of Mathematical Physics*, **2006**, 13, 414-424	1.4	13
248	Equations of the self-consistent field. *Journal of Soviet Mathematics*, **1979**, 11, 123-195		13
247	Gas-amorphous solid and liquid-amorphous solid phase transitions. Introduction of negative mass and pressure from the mathematical viewpoint. *Mathematical Notes*, **2015**, 97, 423-430	0.5	12
246	Comparison of the supercritical states of fluids for imperfect gases and for a fractal ideal gas. *Mathematical Notes*, **2010**, 87, 384-391	0.5	12
245	Superfluidity of classical liquid in a nanotube for even and odd numbers of neutrons in a molecule. *Theoretical and Mathematical Physics(Russian Federation)*, **2007**, 153, 1677-1696	0.7	12
244	Mathematical Aspects of Weakly Nonideal Bose and Fermi Gases on a Crystal Base. *Functional Analysis and Its Applications*, **2003**, 37, 94-102	0.4	12
243	A generalized adiabatic principle for electron dynamics in curved nanostructures. *Physics-Uspekhi*, **2005**, 48, 962-968	2.8	12
242	Mathematical justification for the transition to negative pressures of the new ideal liquid. *Mathematical Notes*, **2012**, 92, 402-411	0.5	10
241	On homogeneous mixtures of gases. *Mathematical Notes*, **2011**, 89, 706-711	0.5	10
240	Quasithermodynamic correction to the Stefan-Boltzmann law. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 154, 175-176	0.7	10
239	Tunnel canonical operator in thermodynamics. *Functional Analysis and Its Applications*, **2006**, 40, 173-187	0.4	10
238	On a General Theorem of Set Theory Leading to the Gibbs, Bose-Einstein, and Pareto Distributions as well as to the Zipf-Mandelbrot Law for the Stock Market. *Mathematical Notes*, **2005**, 78, 807-813	0.5	10
237	Violation of the determinacy principle of nonstationary equations of two-and three-dimensional gas dynamics for sufficiently large reynolds numbers. *Theoretical and Mathematical Physics(Russian Federation)*, **1986**, 69, 1202-1212	0.7	10
236	New probability theory compatible with the new conception of modern thermodynamics. Economics and crisis of debts. *Russian Journal of Mathematical Physics*, **2012**, 19, 63-100	1.4	9
235	On a serious mathematical error in the "Mathematical Encyclopedia" related to the solution of the Gibbs paradox. *Mathematical Notes*, **2013**, 93, 732-739	0.5	9
234	Gibbs paradox, liquid phase as an alternative to the bose condensate, and homogeneous mixtures of new ideal gases. *Mathematical Notes*, **2011**, 89, 366-373	0.5	9
233	Number-theoretic internal energy for a gas mixture. *Russian Journal of Mathematical Physics*, **2011**, 18, 163-175	1.4	9

232	New critical points for the liquid phase and the construction of thermodynamics depending on the interaction potential. *Mathematical Notes*, **2010**, 88, 723-731	0.5	9
231	Econophysics and Quantum Statistics. *Mathematical Notes*, **2002**, 72, 811-818	0.5	9
230	Quantization in the neighborhood of classical solutions in theN particle problem and superfluidity. *Theoretical and Mathematical Physics(Russian Federation)*, **1994**, 98, 181-196	0.7	9
229	New construction of classical thermodynamics and UD-statistics. *Russian Journal of Mathematical Physics*, **2014**, 21, 256-284	1.4	8
228	Unbounded probability theory and multistep relaxation processes. *Mathematical Notes*, **2013**, 93, 451-459	0.5	8
227	Violation of Carathéodory axioms at the critical point of a gas. Frenkel point as the critical point of the transition liquid-amorphous solid in the region of negative pressures. *Mathematical Notes*, **2014**, 96, 977-982	0.5	8
226	Calculation of the number of collective degrees of freedom and of the admissible cluster size for isotherms in the Van-der-Waals model in supercritical states. *Russian Journal of Mathematical Physics*, **2014**, 21, 494-503	1.4	8
225	Ideal gas/liquid transition as a generalization of the problem of partitio numerorum.*Russian Journal of Mathematical Physics*, **2012**, 19, 484-498	1.4	8
224	A new approach to probability theory and thermodynamics. *Mathematical Notes*, **2011**, 90, 125-135	0.5	8
223	Correspondence principle between T-diagrams and interaction potentials and a distribution of Bose-Einstein type. *Mathematical Notes*, **2010**, 88, 57-66	0.5	8
222	Solution of the Gibbs paradox in the framework of classical mechanics (Statistical Physics) and crystallization of the gas C 60. *Mathematical Notes*, **2008**, 83, 716-722	0.5	8
221	The lack-of-preference law and the corresponding distributions in frequency probability theory. *Mathematical Notes*, **2006**, 80, 214-223	0.5	8
220	On Zipf's law and rank distributions in linguistics and semiotics. *Mathematical Notes*, **2006**, 80, 679-691	0.5	8
219	Dependence of the Superfluidity Criterion on the Capillary Radius. *Theoretical and Mathematical Physics(Russian Federation)*, **2005**, 143, 741-759	0.7	8
218	Algebras with general commutation relations and their applications. I. Pseudodifferential equations with increasing coefficients. *Journal of Soviet Mathematics*, **1981**, 15, 167-273		8
217	Asymptotic dynamics of a system of a large number of particles described by the Kolmogorov-Feller equations. *Theoretical and Mathematical Physics(Russian Federation)*, **1981**, 49, 1043-1049	0.7	8
216	Uniformization method in the theory of Nonlinear Hamiltonian systems of Vlasov and Hartree type. *Theoretical and Mathematical Physics(Russian Federation)*, **1977**, 33, 852-862	0.7	8
215	Two-fluid picture of supercritical phenomena. *Theoretical and Mathematical Physics(Russian Federation)*, **2014**, 180, 1096-1129	0.7	7

214	The relationship between the Van-Der-Waals model and the undistinguishing statistics of objectively distinguishable objects. The new parastatistics. *Russian Journal of Mathematical Physics*, **2014**, 21, 99-111	1.4	7
213	Distribution corresponding to classical thermodynamics. *Physics of Wave Phenomena*, **2015**, 23, 81-95	1.2	7
212	Tunnel quantization of thermodynamics and critical exponents. *Mathematical Notes*, **2011**, 90, 533-547	0.5	7
211	Thermodynamics of fluids as a consequence of distribution theory for Diophantine equations. *Mathematical Notes*, **2009**, 86, 3-9	0.5	7
210	Thermodynamics of fluids for a relativistic gas as a consequence of distribution theory for diophantine equations. *Mathematical Notes*, **2009**, 86, 293-297	0.5	7
209	On the distribution of integer random variables related by a certain linear inequality: II. *Mathematical Notes*, **2008**, 83, 345-363	0.5	7
208	Condition for the absence of reactor superheating: Estimation of the critical constant. *Doklady Physics*, **2007**, 52, 415-417	0.8	7
207	New distribution formulas for classical gas, clusters, and phase transitions. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 157, 1577-1594	0.7	7
206	Ultratertiary Quantization of Thermodynamics. *Theoretical and Mathematical Physics(Russian Federation)*, **2002**, 132, 1222-1232	0.7	7
205	Nonlinear Averaging Axioms in Financial Mathematics and Stock Price Dynamics. *Theory of Probability and Its Applications*, **2004**, 48, 723-733	0.5	7
204	Rapidly oscillating asymptotic solution of magnetohydrodynamic equations in the Tokamak approximation. *Theoretical and Mathematical Physics(Russian Federation)*, **1992**, 92, 879-895	0.7	7
203	Jump-type processes and their applications in quantum mechanics. *Journal of Soviet Mathematics*, **1980**, 13, 315-358		7
202	A criterion for discreteness of the spectrum of a Sturm-Liouville equation with an operator coefficient (apropos the article by B. M. Levitan and G. A. Suvorchenkova). *Functional Analysis and Its Applications*, **1968**, 2, 153-157	0.4	7
201	Locally ideal liquid. *Russian Journal of Mathematical Physics*, **2015**, 22, 361-373	1.4	6
200	Demonstrations in mathematics and physics. *Russian Journal of Mathematical Physics*, **2012**, 19, 203-215	1.4	6
199	The mathematical theory of classical thermodynamics. *Mathematical Notes*, **2013**, 93, 102-136	0.5	6
198	Supercritical and critical states of fluids: New distribution and main invariants. *Mathematical Notes*, **2014**, 96, 732-738	0.5	6
197	Critical indices as a consequence of Wiener quantization of thermodynamics. *Theoretical and Mathematical Physics(Russian Federation)*, **2012**, 170, 384-393	0.7	6

196	Mathematical conception of Phenomenological equilibrium thermodynamics. *Russian Journal of Mathematical Physics*, **2011**, 18, 440-464	1.4	6
195	The E point in helium-4 and nonholonomic clusters. *Mathematical Notes*, **2010**, 87, 298-300	0.5	6
194	Fluid thermodynamics, energy redistribution law, two-dimensional condensate, and T map. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 161, 1681-1713	0.7	6
193	Similarity laws in thermodynamics: Monomers and dimers and their relations to crises in society. *Russian Journal of Mathematical Physics*, **2009**, 16, 492-507	1.4	6
192	Statistics corresponding to classical thermodynamics. Construction of isotherms. *Russian Journal of Mathematical Physics*, **2015**, 22, 53-67	1.4	5
191	New parastatistics leading to classical thermodynamics: Physical interpretation. *Mathematical Notes*, **2014**, 96, 50-67	0.5	5
190	The law of preference of cluster formation over passage to liquid state. *Mathematical Notes*, **2013**, 94, 115-126	0.5	5
189	Mathematical solution of the Gibbs paradox. *Mathematical Notes*, **2011**, 89, 266-276	0.5	5
188	Asymptotic solutions of the Navier-Stokes equations describing periodic systems of localized vortices. *Mathematical Notes*, **2011**, 90, 686-700	0.5	5
187	Thermodynamics of fluids for imperfect gases with Lennard-Jones interaction potential: III. *Mathematical Notes*, **2010**, 87, 79-87	0.5	5
186	A new distribution generalizing the Bose-Einstein distribution. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 159, 684-685	0.7	5
185	On the new distribution generalizing the Gibbs, Bose-Einstein, and Pareto distributions. *Mathematical Notes*, **2009**, 85, 613-622	0.5	5
184	New global distributions in number theory and their applications. *Journal of Fixed Point Theory and Applications*, **2010**, 8, 81-111	1.4	5
183	A new approach to phase transitions, thermodynamics, and hydrodynamics. *Theoretical and Mathematical Physics(Russian Federation)*, **2010**, 165, 1699-1720	0.7	5
182	Quasithermodynamics and a correction to the Stefan-Boltzmann law. *Mathematical Notes*, **2008**, 83, 72-79	0.5	5
181	On the dispersion law of the form e(p) = $\square^2$ p 2/2m + (tilde V)(p) $\square$(tilde V)(0) for elementary excitations of a nonideal fermi gas in the pair interaction approximation (i <-lj), V(|x x $\square$k j |). *Mathematical Notes*, **2007**, 82, 619-634	0.5	5
180	Gibbs and Bose-Einstein distributions for an ensemble of self-adjoint operators in classical mechanics. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 155, 775-779	0.7	5
179	On the integral equation(u(x) = F(x) + smallint G(x,xi)u_ + ^{{k mathord{left/ {vphantom {k 2}} right. kern-nulldelimiterspace} 2}} (xi){{dxi } mathord{left/ {vphantom {{dxi } smallint }} right. kern-nulldelimiterspace} smallint }u_ + ^{{k mathord{left/ {vphantom {k 2}} right. kern-nulldelimiterspace} 2}} (xi)dxi). *Functional Analysis and Its Applications*, **1994**, 28, 33-41	0.4	5

178	Geometric quantization of thermodynamics and statistical corrections at critical points. *Theoretical and Mathematical Physics(Russian Federation)*, **1994**, 101, 1466-1472	0.7	5
177	Quasiclassical soliton solutions of the Hartree equation. Newtonian interaction with screening. *Theoretical and Mathematical Physics(Russian Federation)*, **1979**, 40, 715-721	0.7	5
176	New thermodynamics and frost cleft in conifers. *Mathematical Notes*, **2015**, 98, 343-347	0.5	4
175	Economics as an analog of thermodynamics: Conjugate variables. *Mathematical Notes*, **2012**, 91, 442-444	0.5	4
174	Unbounded probability theory compatible with the probability theory of numbers. *Mathematical Notes*, **2012**, 91, 697-703	0.5	4
173	Binodal for the new ideal gas and the ideal liquid. *Mathematical Notes*, **2012**, 91, 893-894	0.5	4
172	Unbounded Probability Theory and Its Applications. *Theory of Probability and Its Applications*, **2013**, 57, 444-467	0.5	4
171	The boundary of a volume as a trap ensuring the phase transition in an ideal gas at low temperatures. *Mathematical Notes*, **2012**, 92, 657-663	0.5	4
170	Main axiom of thermodynamics and entropy of number theory: Tunnel and ultrasecond quantization. *Mathematical Notes*, **2011**, 90, 385-397	0.5	4
169	New paradigm in thermodynamics and its connection with economics and linguistics. *Russian Journal of Mathematical Physics*, **2011**, 18, 329-337	1.4	4
168	Bose condensate in the two-dimensional case, the λ-point, and the Thiess-Landau two-fluid model. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 159, 561-562	0.7	4
167	High-temperature processes in a porous medium. *High Temperature*, **2009**, 47, 223-227	0.8	4
166	Tropical mathematics and the financial catastrophe of the 17th century. Thermoeconomics of Russia in the early 20th century. *Russian Journal of Mathematical Physics*, **2010**, 17, 126-140	1.4	4
165	Hypothetic λ-point for noble gases. *Russian Journal of Mathematical Physics*, **2010**, 17, 454-467	1.4	4
164	On the number of eigenvalues for a Gibbs ensemble of self-adjoint operators. *Mathematical Notes*, **2008**, 83, 424-427	0.5	4
163	On the distribution of integer random variables related by a certain linear inequality: III. *Mathematical Notes*, **2008**, 83, 804-820	0.5	4
162	General notion of a topological space of negative dimension and quantization of its density. *Mathematical Notes*, **2007**, 81, 140-144	0.5	4
161	Nonstandard analysis, parastatistics, and fractals. *Theoretical and Mathematical Physics(Russian Federation)*, **2007**, 153, 1575-1581	0.7	4

160	A correction to the Maxwell distribution and the Bose-Einstein-type distribution in classical physics. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 157, 1491-1495	0.7	4
159	Superheating behavior in a breakdown reactor. *Doklady Physics*, **2008**, 53, 454-457	0.8	4
158	A refinement of the Zipf-Mandelbrot law and the lacunarity in an ideal gas. *Theoretical and Mathematical Physics(Russian Federation)*, **2006**, 147, 876-877	0.7	4
157	Refinement of the Gibbs and Bose-Einstein Distributions. *Theoretical and Mathematical Physics(Russian Federation)*, **2005**, 145, 1749-1752	0.7	4
156	Analytic continuation of asymptotic formulas and axiomatics of thermodynamics and semithermodynamics. *Functional Analysis and Its Applications*, **1995**, 28, 247-256	0.4	4
155	On an integral equation of the formu(x)=F(x) + ? G(x,)u (n2)/2+ ()d?? u (n2)/2()d for n=2 andn=3. *Mathematical Notes*, **1994**, 55, 302-311	0.5	4
154	Hugoniot-type conditions for infinitely narrow solutions of the equation for simple waves. *Siberian Mathematical Journal*, **1984**, 24, 787-795	0.5	4
153	Transition of the Heisenberg equation for h-b to the dynamic equation of a monoatomic ideal gas and quantization of relativistic hydrodynamics. *Theoretical and Mathematical Physics(Russian Federation)*, **1969**, 1, 289-293	0.7	4
152	On new ideal (noninteracting) gases in supercritical thermodynamics. *Mathematical Notes*, **2015**, 97, 85-99	0.5	3
151	Van der Waals equation from the viewpoint of probability distribution and the triple point as the critical point of the liquid-to-solid transition. *Russian Journal of Mathematical Physics*, **2015**, 22, 188-200	1.4	3
150	On the semiclassical transition in the quantum Gibbs distribution. *Mathematical Notes*, **2015**, 97, 565-574	0.5	3
149	Jump in the number of collective degrees of freedom as a phase transition of the first kind. *Mathematical Notes*, **2015**, 97, 230-242	0.5	3
148	Asymptotic solutions of Navier-Stokes equations and topological invariants of vector fields and Liouville foliations. *Theoretical and Mathematical Physics(Russian Federation)*, **2014**, 180, 967-982	0.7	3
147	Effect of a measuring instrument in the Bose condensate of a classical gas in a phase transition and in experiments with negative pressure. *Theoretical and Mathematical Physics(Russian Federation)*, **2013**, 175, 526-558	0.7	3
146	New parastatistics leading to classical thermodynamics: Physical interpretation. II. *Mathematical Notes*, **2014**, 96, 403-415	0.5	3
145	Bose condensate in the D-Dimensional case, in particular, for D = 2. *Russian Journal of Mathematical Physics*, **2012**, 19, 317-323	1.4	3
144	Probability theory for random variables with unboundedly growing values and its applications. *Russian Journal of Mathematical Physics*, **2012**, 19, 324-339	1.4	3
143	Wiener quantization of economics as an analog of the quantization of thermodynamics. *Mathematical Notes*, **2012**, 91, 81-89	0.5	3

142	Asymptotic solutions of the Navier-Stokes equations and systems of stretched vortices filling a three-dimensional volume. *Mathematical Notes*, **2012**, 91, 207-216	0.5	3
141	Fischer correspondence principle of equilibrium thermodynamics and economics. Debt crisis. *Mathematical Notes*, **2011**, 90, 291-294	0.5	3
140	Phase transitions in real gases and ideal Bose gases. *Theoretical and Mathematical Physics(Russian Federation)*, **2011**, 167, 654-667	0.7	3
139	Fluid thermodynamics: Qualitative consideration. *Theoretical and Mathematical Physics(Russian Federation)*, **2009**, 161, 1513-1528	0.7	3
138	Phase transitions of the first and second kind as economic crises. Abstract thermodynamics of fluids. *Russian Journal of Mathematical Physics*, **2009**, 16, 323-344	1.4	3
137	On the distribution of integer random variables related by two linear inequalities: I. *Mathematical Notes*, **2008**, 83, 512-529	0.5	3
136	Taking into account the interaction between particles in the new nucleation theory, quasiparticles, quantization of vortices, and the two-particle distribution function. *Mathematical Notes*, **2008**, 83, 790-803	0.5	3
135	On the distribution of integer random variables satisfying two linear relations. *Mathematical Notes*, **2008**, 84, 73-99	0.5	3
134	A theorem on parastatistics and its application. *Theoretical and Mathematical Physics(Russian Federation)*, **2007**, 150, 436-437	0.7	3
133	On the superfluidity of classical liquid in nanotubes, IV. *Russian Journal of Mathematical Physics*, **2008**, 15, 280-290	1.4	3
132	New theory of nucleation. *Russian Journal of Mathematical Physics*, **2008**, 15, 332-342	1.4	3
131	Negative asymptotic topological dimension, a new condensate, and their relation to the quantized Zipf law. *Mathematical Notes*, **2006**, 80, 806-813	0.5	3
130	Statistical Ensemble and Quantization of Thermodynamics. *Mathematical Notes*, **2002**, 71, 509-516	0.5	3
129	Ultra-Second Quantization and "Ghosts" in Quantized Entropy. *Theoretical and Mathematical Physics(Russian Federation)*, **2001**, 129, 1694-1716	0.7	3
128	The Kolmogorov-Feller equation and the probabilistic model of quantum mechanics. *Journal of Soviet Mathematics*, **1983**, 23, 2534-2553		3
127	M. V. Keldysh's multiple completeness and the uniqueness of the solution of the corresponding Cauchy problem. *Functional Analysis and Its Applications*, **1970**, 4, 99-105	0.4	3
126	Probability distribution for a hard liquid. *Mathematical Notes*, **2015**, 97, 909-918	0.5	2
125	Equilibrium economics with a two-strata social structure. *Mathematical Notes*, **2014**, 95, 881-885	0.5	2

124	The role of macroinstrument and microinstrument and of observable quantities in the new conception of thermodynamics. *Russian Journal of Mathematical Physics*, **2013**, 20, 68-101	1.4	2
123	A mathematical theory of the supercritical state serving as an effective means of destruction of chemical warfare agents. *Mathematical Notes*, **2013**, 94, 532-546	0.5	2
122	The law of preference of cluster formation over passage to liquid state. II. *Mathematical Notes*, **2013**, 94, 364-368	0.5	2
121	On unbounded probability theory. *Mathematical Notes*, **2012**, 92, 59-63	0.5	2
120	The natural sequence and pores in mathematical theory of classical and quantum thermodynamics. *Mathematical Notes*, **2013**, 93, 578-582	0.5	2
119	The bose distribution without bose condensate: Dependence of the chemical potential on fractal dimension. *Mathematical Notes*, **2011**, 89, 93-97	0.5	2
118	Estimates in number theory and phase transition to the superfluid state for He3 and He4. *Mathematical Notes*, **2010**, 88, 516-523	0.5	2
117	On the Λ-point for classical gases and superfluidity in nanotubes. *Mathematical Notes*, **2009**, 86, 385-399	0.5	2
116	New distributions in classical physics. *Mathematical Notes*, **2008**, 84, 290-296	0.5	2
115	On a problem in probability theory. *Mathematical Notes*, **2007**, 81, 788-799	0.5	2
114	Production of tantalum capacitor powders with a large specific surface area. *Theoretical Foundations of Chemical Engineering*, **2007**, 41, 585-588	0.9	2
113	Zeroth-order phase transitions and Zipf law quantization. *Theoretical and Mathematical Physics(Russian Federation)*, **2007**, 150, 102-122	0.7	2
112	Steady cooling and global overheating processes in a hazardous reactor. *Prikladnaya Matematika I Mekhanika*, **2008**, 72, 689-693		2
111	Nonlinear Financial Averaging, the Evolution Process, and Laws of Econophysics. *Theory of Probability and Its Applications*, **2005**, 49, 221-244	0.5	2
110	Minimization of the statistical risk of purchases at the market of realty and consumer durables. *Doklady Mathematics*, **2006**, 74, 887-888	0.7	2
109	On Asymptotic Solutions of Nonlinear Equations in the Presence of Turning Points. *Differential Equations*, **2004**, 40, 736-741	0.7	2
108	Quantization of Boltzmann Entropy: Pairs and Correlation Function. *Theoretical and Mathematical Physics(Russian Federation)*, **2002**, 131, 666-680	0.7	2
107	Integral Equations and Phase Transitions in Stochastic Games. An Analogy with Statistical Physics. *Theory of Probability and Its Applications*, **2004**, 48, 359-367	0.5	2

106   Large deviations in the many-body problem. *Mathematical Notes*, **1995**, 57, 94-97   0.5   2

105   Problem of the reversal of a wave for the model equation$(r_t + rr_x - \frac{ih}{2}r_{xx} = 0)$. *Mathematical Notes*, **1992**, 51, 624-627   0.5   2

104   Idempotent analysis as a tool of control theory and optimal synthesis. 2. *Functional Analysis and Its Applications*, **1990**, 23, 300-307   0.4   2

103   Shift of the boundary conditions for partial differential equations. *USSR Computational Mathematics and Mathematical Physics*, **1988**, 28, 111-121   2

102   Dynamical equations of almost flat domain walls in a uniaxial magnetic bubble film. *Theoretical and Mathematical Physics(Russian Federation)*, **1988**, 77, 1180-1189   0.7   2

101   Shock waves in a granular medium. *Physics of the Earth and Planetary Interiors*, **1988**, 50, 8-15   2.3   2

100   Asymptotics of the Kolmogorov-Feller equation for a system of a large number of particles. *Journal of Soviet Mathematics*, **1983**, 23, 2553-2579   2

99   Asymptotic solutions of the Landau-Lifshitz equation and quasisteady motion of bubbles in magnetic films. *Theoretical and Mathematical Physics(Russian Federation)*, **1984**, 60, 931-944   0.7   2

98   Propagation of a shock wave in an isentropic gas with small viscosity. *Journal of Soviet Mathematics*, **1980**, 13, 163-185   2

97   Quantization of symplectic manifolds with conical points. *Theoretical and Mathematical Physics(Russian Federation)*, **1982**, 53, 1186-1195   0.7   2

96   Applications of complex germ theory to equations with a small parameter. *Journal of Soviet Mathematics*, **1976**, 5, 552-605   2

95   On the existence of a solution, decreasing as t-∏of Sobolev's equation for small oscillations of a rotating fluid in a cylindrical domain. *Siberian Mathematical Journal*, **1968**, 9, 1013-1020   0.5   2

94   Universal Algorithms, Mathematics of Semirings and Parallel Computations. *Lecture Notes in Computational Science and Engineering*, **2011**, 63-89   0.3   2

93   Supercritical mesoscopic thermodynamics. *Mathematical Notes*, **2014**, 95, 670-685   0.5   1

92   Boyle temperature as a point of ideal gas in gentile statistics and its economic interpretation. *Russian Journal of Mathematical Physics*, **2014**, 21, 373-378   1.4   1

91   The particle accumulation phenomenon for a positive chemical potential in the supercritical state. *Mathematical Notes*, **2014**, 95, 399-406   0.5   1

90   Unbounded probability theory and multistep relaxation processes, II. *Mathematical Notes*, **2013**, 93, 881-889   1

89   On I. M. Gelfand⊠ 100th anniversary. *Mathematical Notes*, **2013**, 94, 841-842   0.5   1

88	A new approach to mathematical statistics involving the number of degrees of freedom, temperature, and symplectically conjugate quantities. *Russian Journal of Mathematical Physics*, **2013**, 20, 315-325	1.4	1
87	Taking parastatistical corrections to the Bose-Einstein distribution into account in the quantum and classical cases. *Theoretical and Mathematical Physics(Russian Federation)*, **2012**, 172, 1289-1299	0.7	1
86	On the possible reasons for the fall-out of the supercomputer from the world wide web. *Mathematical Notes*, **2012**, 92, 283-285	0.5	1
85	A homogeneous gas mixture. *Theoretical and Mathematical Physics(Russian Federation)*, **2011**, 168, 1165-1174	0.7	1
84	On the hydrodynamics of fluids. *Mathematical Notes*, **2010**, 88, 905-907	0.5	1
83	On the boundedness law for the number of words in an overabundant dictionary. *Mathematical Notes*, **2009**, 85, 296-301	0.5	1
82	On explosive flicker noises. *Mathematical Notes*, **2009**, 85, 607-609	0.5	1
81	Mathematical economics and thermodynamics: Crises as phase transitions. *Mathematical Notes*, **2009**, 86, 879-882	0.5	1
80	Comparison of the new nucleation theory with experimental data. *Mathematical Notes*, **2008**, 84, 64-72	0.5	1
79	On a new universal constant in ideal gas theory in a nanoporous medium. *Mathematical Notes*, **2008**, 84, 439-441	0.5	1
78	Densities of lattices corresponding to spaces of positive, negative, and variational dimension, and their application to time series. *Mathematical Notes*, **2007**, 81, 222-233	0.5	1
77	Secondary dequantization in algebraic and tropical geometry. *Mathematical Notes*, **2007**, 82, 860-862	0.5	1
76	Generalization of the Bardeen-Cooper-Schrieffer method for pair interactions. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 154, 495-502	0.7	1
75	New concept of the nucleation process. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 156, 1101-1102	0.7	1
74	Bose gas of anharmonic oscillators and refinement of the ZIPF law. *Theoretical and Mathematical Physics(Russian Federation)*, **2006**, 148, 1295-1296	0.7	1
73	An Exactly Solvable Superfluidity Model and the Phase Transition of the Zeroth Kind (Fountain Effect). *Theoretical and Mathematical Physics(Russian Federation)*, **2004**, 141, 1686-1697	0.7	1
72	Quantum Statistics Methods from the Viewpoint of Probability Theory. I. *Theory of Probability and Its Applications*, **2003**, 47, 665-683	0.5	1
71	Sufficient conditions for high-temperature superconductivity. *Functional Analysis and Its Applications*, **1996**, 29, 286-288	0.4	1

70	Geometric quantization of thermodynamics, phase transitions, and asymptotes at critical points. *Mathematical Notes*, **1994**, 56, 984-985	0.5	1
69	Three-scale expansion of the solution of the magnetohydrodynamic equations and the Reynolds equation for a tokamak. *Theoretical and Mathematical Physics(Russian Federation)*, **1994**, 98, 202-211	0.7	1
68	Semiclassical asymptotics of the eigenfunctions of the Schrödinger-Hartree equation. New form of classical self-consistent field. *Theoretical and Mathematical Physics(Russian Federation)*, **1994**, 99, 484-493	0.7	1
67	Change of the extreme scale in turbulent flow from Kolmogorov to Taylor type in dependence of external noise. *Mathematical Notes*, **1991**, 50, 983-983	0.5	1
66	Lin-Lees equations for boundary layers in domains with curvilinear boundary. *Physica D: Nonlinear Phenomena*, **1988**, 33, 266-280	3.3	1
65	Interaction between small-amplitude short waves in a weakly dispersive plasma. I. *Ukrainian Mathematical Journal*, **1988**, 39, 371-378	0.4	1
64	Second term of the logarithmic asymptotics of path integrals. *Journal of Soviet Mathematics*, **1983**, 23, 2580-2598		1
63	T-product of hypoelliptic operators. *Journal of Soviet Mathematics*, **1980**, 13, 81-118		1
62	Path integral over branching paths. *Theoretical and Mathematical Physics(Russian Federation)*, **1980**, 45, 1058-1069	0.7	1
61	Logarithmic asymptotic of the Laplace integrals. *Mathematical Notes*, **1981**, 30, 880-883	0.5	1
60	Resonance phenomena in the nonlinear equations of a proper semiconductor h2□=shu. *Journal of Soviet Mathematics*, **1983**, 21, 274-280		1
59	Quasi-invertibility of functions of ordered operators in the theory of pseudodifferential equations. *Journal of Soviet Mathematics*, **1977**, 7, 695-795		1
58	Parastatistics and the general theorem of probability theory as applied to risk-free investments. *Mathematical Notes*, **2007**, 81, 422-425	0.5	0
57	On the minimization of operational risks. *Mathematical Notes*, **2006**, 80, 539-541	0.5	0
56	Multidimensional Dirichlet series in the problem of the asymptotics of spectral series of nonlinear elliptic operators. *Journal of Soviet Mathematics*, **1985**, 28, 91-143		0
55	UD-statistics in the subcritical region. *Theoretical and Mathematical Physics(Russian Federation)*, **2015**, 182, 308-310	0.7	
54	On the introduction of the temperature standard in the undistinguishing parastatistics of objectively distinguishable objects. *Mathematical Notes*, **2014**, 95, 91-97	0.5	
53	Bose-einstein-type distribution for nonideal gas. Two-liquid model of supercritical states and its applications. *Mathematical Notes*, **2013**, 94, 231-237	0.5	

52	Parastatistics and phase transition from a cluster as a fluctuation to a cluster as a distinguishable object. *Russian Journal of Mathematical Physics*, **2013**, 20, 468-475	1.4
51	A new distribution corresponding to thermodynamics in supercritical and subcritical regions and in the region of negative pressure. *Doklady Mathematics*, **2015**, 91, 379-383	0.7
50	Nostalgia for D.V. Anosov. *Mathematical Notes*, **2014**, 96, 307-308	0.5
49	A Bose condensate in the D-dimensional case, in particular, for D = 2 and 1. *Doklady Mathematics*, **2012**, 86, 700-703	0.7
48	On the mathematical justification of experimental and computer physics. *Mathematical Notes*, **2012**, 92, 577-579	0.5
47	The effect of a natural trap (the boundary of the volume) on the Bose distribution of quantum particles in the three-dimensional and two-dimensional cases. *Mathematical Notes*, **2012**, 92, 834-836	0.5
46	Incompressible liquid in thermodynamics, new entropy, and the scenario for the occurrence of turbulence for the Navier-Stokes equation. *Mathematical Notes*, **2011**, 90, 859-866	0.5
45	Application of the canonical operator to the description of self-focusing soliton-like solutions of the Kadomtsev-Petviashvili equation. *Russian Journal of Mathematical Physics*, **2011**, 18, 505-507	1.4
44	Number theory, dimension theory, and the crisis of overproduction. *Mathematical Notes*, **2010**, 88, 402-413	0.5
43	On the boundedness law for the number of words in an overabundant dictionary. II. *Mathematical Notes*, **2009**, 85, 906-907	0.5
42	The intertwining of two lifelines in Memoriam of V. I. Arnold. *Russian Journal of Mathematical Physics*, **2010**, 17, 395-398	1.4
41	On the exact solution of the four-row matrix corresponding to the variational equations for ultrasecond quantization problems. *Mathematical Notes*, **2008**, 83, 274-278	0.5
40	Thermodynamics of nanostructures. *Mathematical Notes*, **2008**, 84, 592-595	0.5
39	Transition to the condensate state for classical gases and clusterization. *Mathematical Notes*, **2008**, 84, 795-813	0.5
38	Ultrasecond quantization at temperatures distinct from zero. *Mathematical Notes*, **2007**, 82, 47-51	0.5
37	A sufficient condition for a riskless distribution of investments. *Doklady Mathematics*, **2007**, 75, 299-303	0.7
36	Quantization of topological spaces of negative dimension, parastatistics, and distribution of dependent random variables. *Doklady Mathematics*, **2007**, 75, 424-427	0.7
35	Ultrasecondary quantization of fermions at nonzero temperature. *Doklady Mathematics*, **2007**, 76, 718-721	0.7

34	Secondary dequantization. *Doklady Mathematics*, **2007**, 76, 944-944	0.7
33	Refinement of a criterion for superfluidity of a classical liquid in a nanotube. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 155, 959-963	0.7
32	Taking the particle interaction into account in a new concept of nucleation theory. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 156, 1228-1229	0.7
31	Clustering in an ideal gas in nanostructures as a Bose-condensation-type phenomenon in an asymptotically probabilistically quantized space. *Theoretical and Mathematical Physics(Russian Federation)*, **2008**, 157, 1760-1761	0.7
30	Thermo- and Gas-Dynamical Processes in NPPs after Accidents. *Theory of Probability and Its Applications*, **2007**, 51, 513-517	0.5
29	Application of the canonical operator in thermodynamics. *Doklady Mathematics*, **2006**, 74, 791-794	0.7
28	On operational risks. *Doklady Mathematics*, **2006**, 74, 914-916	0.7
27	Distribution of investments in the stock market, information types, and algorithmic complexity. *Problems of Information Transmission*, **2006**, 42, 251-261	1.1
26	Bose-Einstein-type distribution applied to flicker noise and turbulence. *Theoretical and Mathematical Physics(Russian Federation)*, **2006**, 149, 1574-1575	0.7
25	On a new rank distribution. *Mathematical Notes*, **2006**, 80, 447-448	0.5
24	Maximum Entropy Principle in Non-ordered Setting. *Lecture Notes in Computer Science*, **2004**, 221-233	0.9
23	Phase Transitions in a Stochastic Game. *Mathematical Notes*, **2003**, 73, 598-601	0.5
22	A Weakly Nonideal Bose Gas Model Leading to the Fountain Effect. *Theoretical and Mathematical Physics(Russian Federation)*, **2003**, 135, 889-892	0.7
21	Phase Transition from the Condensate State. *Mathematical Notes*, **2003**, 74, 599-603	0.5
20	On a Solution of the Gross--Pitaevskii Equation for a Condensate Wave Function. *Mathematical Notes*, **2005**, 78, 559-562	0.5
19	Concentration Theorems for Entropy and Free Energy. *Problems of Information Transmission*, **2005**, 41, 134-149	1.1
18	Quantized Entropy and Its Relation to Occupation Numbers. *Theory of Probability and Its Applications*, **2001**, 45, 678-680	0.5
17	Asymptotics of a solution of an N-partial Liouville equation for large N and refutation of the chaos hypothesis for density functions. *Mathematical Notes*, **1994**, 56, 872-874	0.5

16	Kolmogorov law and Kolmogorov and Taylor scales in anisotropic turbulence. Turbulence as a result of three-scale interaction. *Theoretical and Mathematical Physics(Russian Federation)*, **1993**, 94, 260-264	0.7
15	Single-phase asymptotics for magnetic hydrodynamic equations with large Reynolds numbers. *Siberian Mathematical Journal*, **1989**, 29, 824-830	0.5
14	Dissipative-asymptotic manifolds. *Journal of Soviet Mathematics*, **1989**, 46, 1843-1906	
13	Asymptotic Lagrangian manifolds and the complex WKB method. *Journal of Soviet Mathematics*, **1989**, 46, 1906-1977	
12	A probabilistic-statistical model of quantum mechanics. *Mathematical Notes*, **1989**, 46, 524-533	0.5
11	Three-wave interaction including frequency doubling effects. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1986**, 29, 157-175	
10	Structure of a weak discontinuity of solutions of quasilinear degenerate parabolic equations. *Mathematical Notes*, **1988**, 43, 479-485	0.5
9	Short small-amplitude wave interaction in a weakly dispersive plasma. II. *Ukrainian Mathematical Journal*, **1988**, 39, 599-605	0.4
8	Quasiclassical approximation for models of spin-spin interaction on a one-dimensional lattice. *Journal of Soviet Mathematics*, **1985**, 31, 3297-3306	
7	Problem of reflection from a boundary for the equationh 2?u +ashu = 0 and finite-zone conditionally periodic solutions. *Functional Analysis and Its Applications*, **1979**, 13, 220-222	0.4
6	Finite Gap Almost Periodic Solutions in Asymptotical Expansions. *North-Holland Mathematics Studies*, **1981**, 1-25	
5	Reduced dynamic characteristics of composite materials with initial stresses. *Soviet Applied Mechanics*, **1982**, 18, 547-551	
4	On random fields corresponding to the BBGKY, Vlasov, and Boltzmann hierarchies. *Theoretical and Mathematical Physics(Russian Federation)*, **1983**, 54, 48-55	0.7
3	Quasiclassical soliton solutions of the Hartree equation. *Journal of Soviet Mathematics*, **1983**, 21, 328-332	
2	The canonic operator (real case). *Journal of Soviet Mathematics*, **1975**, 3, 217-279	
1	The canonic operator (complex case). *Journal of Soviet Mathematics*, **1975**, 3, 280-299	