

Sergey A Trigger

List of Publications by Year in descending order

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70
papers

455
citations

840776

11
h-index

888059

17
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71
all docs

71
docs citations

71
times ranked

108
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency spectral density of equilibrium radiation and zero oscillations in the presence of electron gas. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	2
2	Nonstationary equation for the one-particle wave function of the Bose-Einstein condensate. <i>Low Temperature Physics</i> , 2021, 47, 347-350.	0.6	1
3	Primordial plasma: influence of non-ideality on equilibrium radiation. <i>Physica Scripta</i> , 2021, 96, 015605.	2.5	3
4	Radiation in non-transparent and transparent plasma: Modified Planck distribution and zero vacuum fluctuations. <i>Journal of Physics: Conference Series</i> , 2020, 1556, 012011.	0.4	0
5	On the Spectral Distribution of Equilibrium Radiation and Zero-Point Fluctuations in the Coulomb System. <i>Bulletin of the Lebedev Physics Institute</i> , 2020, 47, 6-9.	0.6	5
6	Equilibrium radiation in a plasma medium with spatial and frequency dispersion. <i>Physica Scripta</i> , 2020, 95, 075504.	2.5	6
7	Kramers-Kronig Relations for the Dielectric Permittivity of the Coulomb System with a Single-Species Bose-Einstein Condensate. <i>Journal of Low Temperature Physics</i> , 2020, 200, 118-130.	1.4	2
8	Spectral energy distribution of the equilibrium radiation and its asymptotic behavior in ideal gaseous plasmas. <i>Physics of Plasmas</i> , 2020, 27, 022106.	1.9	6
9	Equation for epidemic spread with the quarantine measures: application to COVID-19. <i>Physica Scripta</i> , 2020, 95, 105001.	2.5	15
10	From the Coulomb to Effective Interaction: Application to Bose-Einstein Condensation. <i>Bulletin of the Lebedev Physics Institute</i> , 2019, 46, 206-209.	0.6	0
11	Photon Distribution Function in Weakly Coupled Maxwellian Plasma. <i>Bulletin of the Lebedev Physics Institute</i> , 2019, 46, 263-266.	0.6	0
12	Frequency depending permittivity of Coulomb system with the Bose-Einstein condensate. <i>Journal of Physics: Conference Series</i> , 2019, 1147, 012106.	0.4	0
13	Bose-Einstein Condensate and Singularities of the Frequency Dispersion of the Permittivity in a Disordered Coulomb System. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 194, 404-414.	0.9	3
14	Low-Frequency Behavior of the Spectral Energy Distribution Function of Equilibrium Radiation in a Degenerate Electron Gas. <i>Bulletin of the Lebedev Physics Institute</i> , 2018, 45, 381-384.	0.6	2
15	Instabilities and Annihilation Blockade of Macrospheres in the Gravitationally Neutral Universe Model. <i>Bulletin of the Lebedev Physics Institute</i> , 2018, 45, 369-372.	0.6	4
16	The gravitational-optical methods for examination of the hypothesis about galaxies and antigalaxies in the Universe. <i>Journal of Physics: Conference Series</i> , 2018, 946, 012020.	0.4	2
17	On the ground-state energy of a finite inhomogeneous degenerate Bose gas. <i>Low Temperature Physics</i> , 2018, 44, 1211-1214.	0.6	2
18	Asymptotic Behavior of Spectral Energy Distribution Function of Equilibrium Radiation in Maxwell Plasma at Low Frequencies. <i>Bulletin of the Lebedev Physics Institute</i> , 2018, 45, 233-236.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Influence of the electron intrinsic magnetic moment on the transverse dielectric permittivity of degenerate electron gas. Journal of Physics: Conference Series, 2018, 946, 012125.	0.4	2
20	On Temperature Effects in the Correlation Functions of a Degenerate Electron Plasma. High Temperature, 2018, 56, 173-176.	1.0	1
21	On the Problem of the Electromagnetic Field Energy in a Medium with Temporal and Spatial Dispersion under Absorption Conditions. Bulletin of the Lebedev Physics Institute, 2018, 45, 159-164.	0.6	7
22	On the transverse dielectric permittivity of the collisionless plasmas with quantum effects. Physics of Plasmas, 2018, 25, .	1.9	7
23	On the Problem of Universal Density Functional. Bulletin of the Lebedev Physics Institute, 2018, 45, 127-130.	0.6	3
24	To the Theory of Inhomogeneous Electron Gas. Technical Physics, 2018, 63, 1092-1100.	0.7	4
25	On the relationship between microcanonical and canonical Gibbs distributions. High Temperature, 2017, 55, 158-161.	1.0	9
26	Another approach for obtaining the excitation spectra in degenerate Bose gases with delta-shaped interaction potentials. Low Temperature Physics, 2017, 43, 343-350.	0.6	7
27	On the Ground-State Energy and Local Pressure of an Inhomogeneous Bose Gas. Journal of Low Temperature Physics, 2017, 186, 1-9.	1.4	2
28	Quantum effects in the transverse dielectric permittivity of a Maxwellian Plasma. Theoretical and Mathematical Physics(Russian Federation), 2017, 192, 1396-1407.	0.9	11
29	On the ground state energy of the inhomogeneous Bose gas. Frontiers of Physics, 2017, 12, 1.	5.0	0
30	Degenerate Bose gas without anomalous averages. Journal of Physics: Conference Series, 2016, 774, 012149.	0.4	0
31	Radiation and matter: Electrodynamics postulates and Lorenz gauge. Journal of Physics: Conference Series, 2016, 774, 012124.	0.4	0
32	High-frequency spectral distribution of the equilibrium radiation energy in a plasma. Theoretical and Mathematical Physics(Russian Federation), 2016, 187, 539-547.	0.9	14
33	On the thermodynamics of degenerate Bose gas with delta-shaped interaction potential. Bulletin of the Lebedev Physics Institute, 2016, 43, 365-368.	0.6	0
34	Bose-Einstein condensate wave function and nonlinear Schrödinger equation. Bulletin of the Lebedev Physics Institute, 2016, 43, 266-269.	0.6	9
35	Universality of the Phonon-Roton Spectrum in Liquids and Superfluidity of ^4He . Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 565-575.	1.5	5
36	Cosmological consequences of the particle-antiparticle gravitational repulsion hypothesis: the Newtonian model of the universe. Bulletin of the Lebedev Physics Institute, 2016, 43, 1-4.	0.6	2

#	ARTICLE	IF	CITATIONS
37	Coulomb interaction potential and Bose-Einstein condensate. Low Temperature Physics, 2015, 41, 901-908.	0.6	8
38	To the radiation of ultra-relativistic plasma. Journal of Physics: Conference Series, 2015, 653, 012024.	0.4	5
39	Critical opalescence and the true dielectric state in a Coulomb system. Theoretical and Mathematical Physics(Russian Federation), 2015, 183, 553-566.	0.9	2
40	On the Fourier transform features for the Coulomb potential in statistical theory. Bulletin of the Lebedev Physics Institute, 2015, 42, 329-332.	0.6	1
41	On the properties of systems with Bose-Einstein condensate in the Coulomb model of matter. Bulletin of the Lebedev Physics Institute, 2015, 42, 13-16.	0.6	6
42	On the spectral distribution of the energy of equilibrium radiation in matter. JETP Letters, 2015, 101, 299-302.	1.4	22
43	The off-diagonal long-range order and inhomogeneous Bose-Einstein condensate. Doklady Physics, 2015, 60, 147-149.	0.7	9
44	The collective-excitation spectrum in superfluid helium. Doklady Physics, 2015, 60, 385-387.	0.7	2
45	Regarding the relation between the photon-roton spectrum and the single-particle excitation spectrum in liquids with Bose-Einstein condensate. Low Temperature Physics, 2015, 41, 589-594.	0.6	3
46	Virial theorem and Gibbs thermodynamic potential for Coulomb systems. Physics of Plasmas, 2014, 21, .	1.9	5
47	On the collective and single-particle excitations in superfluid helium. Bulletin of the Lebedev Physics Institute, 2014, 41, 323-328.	0.6	1
48	The problem of the universal density functional and the density matrix functional theory. Journal of Experimental and Theoretical Physics, 2013, 116, 635-640.	0.9	13
49	The theory of a metal-insulator transition at zero temperature and features of the dielectric function in the Coulomb model of matter. High Temperature, 2013, 51, 457-464.	1.0	5
50	Structure Factor and Distribution Function of Degenerate Bose Gases Without Anomalous Averages. Journal of Low Temperature Physics, 2013, 170, 31-42.	1.4	9
51	Criterion of superfluidity, elementary excitations, and heat capacity singularity in superfluid helium. Progress of Theoretical and Experimental Physics, 2013, 2013, 43101-0.	6.6	2
52	Virial theorem and generalization of the Fermi-liquid theory for the homogeneous degenerate electron system. Progress of Theoretical and Experimental Physics, 2013, 2013, 23101-0.	6.6	1
53	Metal-nonmetal transition and the second critical point in expanded metals. Europhysics Letters, 2013, 101, 16002.	2.0	6
54	Effective pair potential for atoms in the Coulomb model of substance. Europhysics Letters, 2013, 101, 35002.	2.0	4

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55	Necessary conditions of the equivalence of canonical and grand canonical ensembles in Coulomb system thermodynamics. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	19
56	External field as the functional of inhomogeneous density and the density matrix functional approach. <i>Europhysics Letters</i> , 2012, 98, 53002.	2.0	8
57	Density functional, density matrix functional, and the virial theorem. <i>Physical Review A</i> , 2011, 83, .	2.5	10
58	Second sum rule for the hot plasma permittivity. <i>Physical Review E</i> , 2011, 83, 026402.	2.1	4
59	Impossibility of the existence of the universal density functional. <i>Europhysics Letters</i> , 2011, 94, 33001.	2.0	10
60	The Kramers-Kronig relations for permittivity, ϵ_0 -screening radius, and critical point of a coulomb system. <i>High Temperature</i> , 2011, 49, 495-505.	1.0	12
61	Coulomb divergence of the high-frequency expansion of the dielectric permittivity. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	2
62	Quantum nature of the critical points of chemical elements. <i>Europhysics Letters</i> , 2010, 91, 66003.	2.0	5
63	On quantum effects in the theory of conductivity of fully ionized quasiclassical plasma. <i>Plasma Physics Reports</i> , 2010, 36, 794-802.	0.9	6
64	Virial theorem, one-particle density matrix, and equilibrium condition in an external field. <i>Physical Review A</i> , 2010, 82, .	2.5	13
65	Exact limiting relation between the structure factors in neutron and X-ray scattering. <i>Europhysics Letters</i> , 2010, 92, 13001.	2.0	5
66	The true dielectric and ideal conductor in the theory of the dielectric function of the Coulomb system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 365002.	2.1	19
67	Exact relation in the density functional theory. <i>Europhysics Letters</i> , 2010, 92, 57001.	2.0	3
68	Virial theorem for an inhomogeneous medium, boundary conditions for the wave functions, and stress tensor in quantum statistics. <i>Physical Review E</i> , 2010, 82, 010102.	2.1	14
69	Kramers-Kronig relations for the dielectric function and the static conductivity of Coulomb systems. <i>Europhysics Letters</i> , 2010, 90, 10003.	2.0	75
70	On the quasiparticle spectrum and maxima of the dynamic ion structure factor in liquid metals. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 9665-9669.	1.8	4