Sergey A Trigger

List of Publications by Year
in descending order

70	455	840776 11	888059 17
papers	citations	h-index	g-index

71	71	71	108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kramers-Kronig relations for the dielectric function and the static conductivity of Coulomb systems. Europhysics Letters, 2010, 90, 10003.	2.0	75
2	On the spectral distribution of the energy of equilibrium radiation in matter. JETP Letters, 2015, 101, 299-302.	1.4	22
3	The true dielectric and ideal conductor in the theory of the dielectric function of the Coulomb system. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 365002.	2.1	19
4	Necessary conditions of the equivalence of canonical and grand canonical ensembles in Coulomb system thermodynamics. Physics of Plasmas, 2012, 19, .	1.9	19
5	Equation for epidemic spread with the quarantine measures: application to COVID-19. Physica Scripta, 2020, 95, 105001.	2.5	15
6	Virial theorem for an inhomogeneous medium, boundary conditions for the wave functions, and stress tensor in quantum statistics. Physical Review E, 2010, 82, 010102.	2.1	14
7	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
8	Virial theorem, one-particle density matrix, and equilibrium condition in an external field. Physical Review A, 2010, 82, .	2.5	13
9	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
10	The Kramers-Kronig relations for permittivity, â€œTrueâ€•screening radius, and critical point of a coulomb system. High Temperature, 2011, 49, 495-505.	1.0	12
11	Quantum effects in the transverse dielectric permittivity of a Maxwellian Plasma. Theoretical and Mathematical Physics(Russian Federation), 2017, 192, 1396-1407.	0.9	11
12	Density functional, density matrix functional, and the virial theorem. Physical Review A, 2011, 83, .	2.5	10
13	Impossibility of the existence of the universal density functional. Europhysics Letters, 2011, 94, 33001.	2.0	10
14	Structure Factor and Distribution Function of Degenerate Bose Gases Without Anomalous Averages. Journal of Low Temperature Physics, 2013, 170, 31-42.	1.4	9
15	The off-diagonal long-range order and inhomogeneous Bose-Einstein condensate. Doklady Physics, 2015, 60, 147-149.	0.7	9
16	Boseâ€“Einstein condensate wave function and nonlinear SchrÃ¶dinger equation. Bulletin of the Lebedev Physics Institute, 2016, 43, 266-269.	0.6	9
17	On the relationship between microcanonical and canonical Gibbs distributions. High Temperature, 2017, 55, 158-161.	1.0	9
18	External field as the functional of inhomogeneous density and the density matrix functional approach. Europhysics Letters, 2012, 98, 53002.	2.0	8

#	Article	IF	Citations
19	Coulomb interaction potential and Bose-Einstein condensate. Low Temperature Physics, 2015, 41, 901-908.	0.6	8
20	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
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 quantum effects in the theory of conductivity of fully ionized quasiclassical plasma. Plasma Physics Reports, 2010, 36, 794-802.	0.9	6
24	Metal-nonmetal transition and the second critical point in expanded metals. Europhysics Letters, 2013, 101, 16002.	2.0	6
25	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
26	Asymptotic Behavior of Spectral Energy Distribution Function of Equilibrium Radiation in Maxwell Plasma at Low Frequencies. Bulletin of the Lebedev Physics Institute, 2018, 45, 233-236.	0.6	6
27	Equilibrium radiation in a plasma medium with spatial and frequency dispersion. Physica Scripta, 2020, 95, 075504.	2.5	6
28	Spectral energy distribution of the equilibrium radiation and its asymptotic behavior in ideal gaseous plasmas. Physics of Plasmas, 2020, 27, 022106.	1.9	6
29	Quantum nature of the critical points of chemical elements. Europhysics Letters, 2010, 91, 66003.	2.0	5
30	Exact limiting relation between the structure factors in neutron and X-ray scattering. Europhysics Letters, 2010, 92, 13001.	2.0	5
31	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
32	Virial theorem and Gibbs thermodynamic potential for Coulomb systems. Physics of Plasmas, 2014, 21, .	1.9	5
33	To the radiation of ultra-relativistic plasma. Journal of Physics: Conference Series, 2015, 653, 012024.	0.4	5
34	Universality of the Phononâ€“Roton Spectrum in Liquids and Superfluidity of ⁴He. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 565-575.	1.5	5
35	On the Spectral Distribution of Equilibrium Radiation and Zero-Point Fluctuations in the Coulomb System. Bulletin of the Lebedev Physics Institute, 2020, 47, 6-9.	0.6	5
36	On the quasiparticle spectrum and maxima of the dynamic ion structure factor in liquid metals. Journal of Physics Condensed Matter, 1989, 1, 9665-9669.	1.8	4

#	Article	IF	Citations
37	Second sum rule for the hot plasma permittivity. Physical Review E, 2011, 83, 026402.	2.1	4
38	Effective pair potential for atoms in the Coulomb model of substance. Europhysics Letters, 2013, 101, 35002.	2.0	4
39	Instabilities and Annihilation Blockade of Macrospheres in the Gravitationally Neutral Universe Model. Bulletin of the Lebedev Physics Institute, 2018, 45, 369-372.	0.6	4
40	To the Theory of Inhomogeneous Electron Gas. Technical Physics, 2018, 63, 1092-1100.	0.7	4
41	Exact relation in the density functional theory. Europhysics Letters, 2010, 92, 57001.	2.0	3
42	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
43	Boseâ€“Einstein Condensate and Singularities of the Frequency Dispersion of the Permittivity in a Disordered Coulomb System. Theoretical and Mathematical Physics(Russian Federation), 2018, 194, 404-414.	0.9	3
44	On the Problem of Universal Density Functional. Bulletin of the Lebedev Physics Institute, 2018, 45, 127-130.	0.6	3
45	Primordial plasma: influence of non-ideality on equilibrium radiation. Physica Scripta, 2021, 96, 015605.	2.5	3
46	Coulomb divergence of the high-frequency expansion of the dielectric permittivity. Physics of Plasmas, 2011, 18, .	1.9	2
47	Criterion of superfluidity, elementary excitations, and heat capacity singularity in superfluid helium. Progress of Theoretical and Experimental Physics, 2013, 2013, 43I01-0.	6.6	2
48	Critical opalescence and the true dielectric state in a Coulomb system. Theoretical and Mathematical Physics(Russian Federation), 2015, 183, 553-566.	0.9	2
49	The collective-excitation spectrum in superfluid helium. Doklady Physics, 2015, 60, 385-387.	0.7	2
50	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
51	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
52	Low-Frequency Behavior of the Spectral Energy Distribution Function of Equilibrium Radiation in a Degenerate Electron Gas. Bulletin of the Lebedev Physics Institute, 2018, 45, 381-384.	0.6	2
53	The gravitational-optical methods for examination of the hypothesis about galaxies and antigalaxies in the Universe. Journal of Physics: Conference Series, 2018, 946, 012020.	0.4	2
54	On the ground-state energy of a finite inhomogeneous degenerate Bose gas. Low Temperature Physics, 2018, 44, 1211-1214.	0.6	2

#	Article	IF	Citations
55	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
56	Kramersâ€“Kronig Relations for the Dielectric Permittivity of the Coulomb System with a Single-Species Boseâ€“Einstein Condensate. Journal of Low Temperature Physics, 2020, 200, 118-130.	1.4	2
57	High-frequency spectral density of equilibrium radiation and zero oscillations in the presence of electron gas. Physics of Plasmas, 2022, 29, .	1.9	2
58	Virial theorem and generalization of the Fermi-liquid theory for the homogeneous degenerate electron system. Progress of Theoretical and Experimental Physics, 2013, 2013, 23I01-0.	6.6	1
59	On the collective and single-particle excitations in superfluid helium. Bulletin of the Lebedev Physics Institute, 2014, 41, 323-328.	0.6	1
60	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
61	On Temperature Effects in the Correlation Functions of a Degenerate Electron Plasma. High Temperature, 2018, 56, 173-176.	1.0	1
62	Nonstationary equation for the one-particle wave function of the Boseâ€“Einstein condensate. Low Temperature Physics, 2021, 47, 347-350.	0.6	1
63	Degenerate Bose gas without anomalous averages. Journal of Physics: Conference Series, 2016, 774, 012149.	0.4	0
64	Radiation and matter: Electrodynamics postulates and Lorenz gauge. Journal of Physics: Conference Series, 2016, 774, 012124.	0.4	0
65	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
66	On the ground state energy of the inhomogeneous Bose gas. Frontiers of Physics, 2017, 12, 1.	5.0	0
67	From the Coulomb to Effective Interaction: Application to Boseâ€”Einstein Condensation. Bulletin of the Lebedev Physics Institute, 2019, 46, 206-209.	0.6	0
68	Photon Distribution Function in Weakly Coupled Maxwellian Plasma. Bulletin of the Lebedev Physics Institute, 2019, 46, 263-266.	0.6	0
69	Frequency depending permittivity of Coulomb system with the Boseâ€“Einstein condensate. Journal of Physics: Conference Series, 2019, 1147, 012106.	0.4	0
70	Radiation in non-transparent and transparent plasma: Modified Planck distribution and zero vacuum fluctuations. Journal of Physics: Conference Series, 2020, 1556, 012011.	0.4	0