

# Pavel A Andreev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7244881/publications.pdf>

Version: 2024-02-01

56  
papers

755  
citations

623188

14  
h-index

552369

26  
g-index

56  
all docs

56  
docs citations

56  
times ranked

135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-fluid hydrodynamics of cold atomic bosons under the influence of quantum fluctuations at non-zero temperatures. <i>Physica Scripta</i> , 2022, 97, 035206.	1.2	0
2	Relativistic hydrodynamic model with the average reverse gamma factor evolution for the degenerate plasmas: High-density ion-acoustic solitons. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
3	On the structure of relativistic hydrodynamics for hot plasmas. <i>Physica Scripta</i> , 2022, 97, 085602.	1.2	6
4	Novel soliton in dipolar BEC caused by the quantum fluctuations. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	3
5	Quantum hydrodynamic theory of quantum fluctuations in dipolar Bose-Einstein condensate. <i>Chaos</i> , 2021, 31, 023120.	1.0	12
6	Extended hydrodynamics of degenerate partially spin polarized fermions with short-range interaction up to the third order by interaction radius approximation. <i>Laser Physics</i> , 2021, 31, 045501.	0.6	8
7	Hydrodynamics of the atomic Bose-Einstein condensate beyond the mean-field approximation. <i>Laser Physics Letters</i> , 2021, 18, 055501.	0.6	3
8	Quantum hydrodynamics of the spinor Bose-Einstein condensate at non-zero temperatures. <i>Physics of Fluids</i> , 2021, 33, .	1.6	12
9	Hydrodynamic description of Weyl fermions in condensed state of matter. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	1
10	A bosonic bright soliton in a mixture of repulsive Bose-Einstein condensate and polarized ultracold fermions under the influence of pressure evolution. <i>Laser Physics</i> , 2021, 31, 015501.	0.6	7
11	Hydrodynamics of quantum corrections to the Coulomb interaction via the third rank tensor evolution equation: application to Langmuir waves and spin-electron acoustic waves. <i>Journal of Plasma Physics</i> , 2021, 87, .	0.7	8
12	A quantum hydrodynamical model of skyrmions with electrical dipole moments and novel magneto-electric skyrmion Hall effect. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	1.8	2
13	On the equation of state for the "thermal" part of the spin current: The Pauli principle contribution in the spin wave spectrum in a cold fermion system. <i>Progress of Theoretical and Experimental Physics</i> , 2019, 2019, .	1.8	5
14	A transverse separate-spin-evolution streaming instability and new wave solutions in electron-positron-ion plasmas. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	0.5	9
15	Hydrodynamic model of a Bose-Einstein condensate with anisotropic short-range interaction and bright solitons in a repulsive Bose-Einstein condensate. <i>Laser Physics</i> , 2019, 29, 035502.	0.6	11
16	Oblique propagation of longitudinal spin-electron acoustic waves under the influence of the Coulomb exchange interaction and the quantum Bohm potential. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	3
17	Electrostatic Langmuir waves and spin-electron-acoustic waves in spin polarized plasma double layer. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	1
18	Radiative corrections to the Coulomb law and model of dense quantum plasmas: Dispersion of longitudinal waves in magnetized quantum plasmas. <i>Physics of Plasmas</i> , 2018, 25, 042103.	0.7	1

#	ARTICLE	IF	CITATIONS
19	Kinetic description of the oblique propagating spin-electron acoustic waves in degenerate plasmas. <i>Physics of Plasmas</i> , 2018, 25, 032116.	0.7	4
20	Separated spin evolution quantum hydrodynamics of degenerate electrons with spin-orbit interaction and extraordinary wave spectrum. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	2
21	Oblique propagating extraordinary spin-electron acoustic waves. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	6
22	A transverse separate-spin-evolution streaming instability. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	15
23	Extraordinary SEAWs under influence of the spin-spin interaction and the quantum Bohm potential. <i>Physics of Plasmas</i> , 2018, 25, 062114.	0.7	4
24	Spin current contribution in the spectrum of collective excitations of degenerate partially polarized spin-1/2 fermions at separate dynamics of spin-up and spin-down fermions. <i>Laser Physics Letters</i> , 2018, 15, 105501.	0.6	8
25	Extraordinary waves in two dimensional electron gas with separate spin evolution and Coulomb exchange interaction. <i>Physics of Plasmas</i> , 2017, 24, 022106.	0.7	5
26	Kinetic analysis of spin current contribution to spectrum of electromagnetic waves in spin-1/2 plasma. I. Dielectric permeability tensor for magnetized plasmas. <i>Physics of Plasmas</i> , 2017, 24, 022114.	0.7	20
27	Kinetic analysis of spin current contribution to spectrum of electromagnetic waves in spin-1/2 plasma. II. Dispersion dependencies. <i>Physics of Plasmas</i> , 2017, 24, 022115.	0.7	10
28	Simultaneous dipole and quadrupole moment contribution in the Bogoliubov spectrum: Application of the non-integral Gross-Pitaevskii equation. <i>Modern Physics Letters B</i> , 2017, 31, 1750152.	1.0	4
29	Extraordinary spin-electron acoustic wave. <i>Physics of Plasmas</i> , 2017, 24, 022123.	0.7	4
30	On a mechanism of high-temperature superconductivity: Spin-electron acoustic wave as a mechanism for the Cooper pair formation. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	15
31	Dielectric permeability tensor and linear waves in spin-1/2 quantum kinetics with non-trivial equilibrium spin-distribution functions. <i>Physics of Plasmas</i> , 2017, 24, 112108.	0.7	9
32	NLSE for quantum plasmas with the radiation damping. <i>Modern Physics Letters B</i> , 2016, 30, 1650180.	1.0	2
33	Surface spin-electron acoustic waves in magnetically ordered metals. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	36
34	Spin-electron acoustic soliton and exchange interaction in separate spin evolution quantum plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	43
35	Spin-electron acoustic waves: The Landau damping and ion contribution in the spectrum. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	25
36	Nonlinear separate spin evolution in degenerate electron-positron-ion plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	41

#	ARTICLE	IF	CITATIONS
37	Exchange Interaction in a Degenerate Electron Gas: Contribution of Electrons with Opposite Spins, Found in One Quantum State. Russian Physics Journal, 2016, 58, 1483-1492.	0.2	0
38	Rich eight-branch spectrum of the oblique propagating longitudinal waves in partially spin-polarized electron-positron-ion plasmas. Physical Review E, 2016, 93, 033209.	0.8	43
39	Separated spin-up and spin-down evolution of degenerated electrons in two-dimensional systems: Dispersion of longitudinal collective excitations in plane and nanotube geometry. Europhysics Letters, 2016, 113, 17001.	0.7	33
40	Weakly Relativistic Quantum Effects in a Two-Dimensional Electron Gas: Dispersion of Langmuir Waves. Russian Physics Journal, 2015, 57, 1210-1219.	0.2	2
41	Exchange interaction effects on waves in magnetized quantum plasmas. Physics of Plasmas, 2015, 22, .	0.7	25
42	Oblique propagation of longitudinal waves in magnetized spin-1/2 plasmas: Independent evolution of spin-up and spin-down electrons. Annals of Physics, 2015, 361, 278-292.	1.0	53
43	Ion acoustic and dust acoustic waves at finite size of plasma particles. Physics of Plasmas, 2015, 22, 032104.	0.7	15
44	Quantum kinetics of spinning neutral particles: General theory and Spin wave dispersion. Physica A: Statistical Mechanics and Its Applications, 2015, 432, 108-126.	1.2	23
45	Non-Integral Nonlinear Schrödinger Equation for Polarized Ultracold Fermions: Spectrum of Collective Excitations. Russian Physics Journal, 2015, 57, 1566-1572.	0.2	0
46	Separated spin-up and spin-down quantum hydrodynamics of degenerated electrons: Spin-electron acoustic wave appearance. Physical Review E, 2015, 91, 033111.	0.8	91
47	Hydrodynamic and kinetic models for spin-1/2 electron-positron quantum plasmas: Annihilation interaction, helicity conservation, and wave dispersion in magnetized plasmas. Physics of Plasmas, 2015, 22, .	0.7	20
48	Exact analytical soliton solutions in dipolar Bose-Einstein condensates. European Physical Journal D, 2014, 68, 1.	0.6	11
49	Quantum Kinetics of Neutral Particles with Spin: Spin Wave Spectrum in a One-Dimensional System of Dipoles. Russian Physics Journal, 2014, 57, 1030-1037.	0.2	1
50	Dispersion properties of transverse waves in electrically polarized BECs. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 225301.	0.6	5
51	Exchange effects in Coulomb quantum plasmas: Dispersion of waves in 2D and 3D quantum plasmas. Annals of Physics, 2014, 350, 198-210.	1.0	51
52	NONINTEGRAL FORM OF THE GROSS-PITAEVSKII EQUATION FOR POLARIZED MOLECULES. Modern Physics Letters B, 2013, 27, 1350096.	1.0	7
53	Soliton appearing in boson-fermion mixture at the third order of the interaction radius. European Physical Journal D, 2013, 67, 1.	0.6	6
54	Dispersion of waves in a weakly relativistic quantum plasma and beam of particles. Russian Physics Journal, 2013, 56, 325-329.	0.2	9

#	ARTICLE	IF	CITATIONS
55	Dispersion of waves in the two-dimensional ultracold fermi gas of atoms and molecules. Russian Physics Journal, 2013, 55, 1190-1196.	0.2	4
56	Self-consistent field theory of polarised Bose-Einstein condensates: dispersion of collective excitations. European Physical Journal D, 2013, 67, 1.	0.6	6