

Ernst A Pashitskii

List of Publications by Year in descending order

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61
papers

621
citations

933447

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580821

25
g-index

62
all docs

62
docs citations

62
times ranked

447
citing authors

#	ARTICLE	IF	CITATIONS
1	Current transport through low-angle grain boundaries in high-temperature superconductors. Physical Review B, 1998, 57, 13878-13893.	3.2	178
2	Supercurrent transport in YBa ₂ Cu ₃ O ₇ epitaxial thin films in a dc magnetic field. Physical Review B, 2006, 73, .	3.2	105
3	Enhancement of superconductivity at structural defects in high-temperature superconductors. Physical Review B, 1997, 56, 6213-6225.	3.2	53
4	Superfluid Bose Liquid with a Suppressed BEC and an Intensive Pair Coherent Condensate as a Model of H ₄ e. Physical Review Letters, 2002, 89, 075301.	7.8	30
5	Interfacial superconductivity in semiconducting monochalcogenide superlattices. Physical Review B, 2002, 66, .	3.2	28
6	Direct evidence for interfacial superconductivity in two-layer semiconducting heterostructures. Physical Review B, 2006, 73, .	3.2	26
7	On the cause of the electrical activity of superfluid helium upon excitation of a second sound wave and normal-component velocity oscillations in it. Low Temperature Physics, 2007, 33, 8-14.	0.6	24
8	On the plasmon mechanism of high-T _c superconductivity in layered crystals and two-dimensional systems. Low Temperature Physics, 2008, 34, 113-122.	0.6	20
9	The role of pair correlations in the formation of the ground state and the elementary excitation spectrum in a superfluid Bose liquid (A Review). Low Temperature Physics, 1999, 25, 81-99.	0.6	13
10	Critical Current Density of HTS Single Crystal YBCO Thin Films in Applied dc Field. IEEE Transactions on Applied Superconductivity, 2005, 15, 2783-2786.	1.7	12
11	On the electric activity of superfluid helium at the excitation of first and second sound waves. Journal of Experimental and Theoretical Physics, 2010, 111, 975-988.	0.9	10
12	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2001, 14, 105-114.	0.5	8
13	On the Structure of the Superfluid State and Quasiparticle Spectrum in a Bose Liquid with a Suppressed Bose-Einstein Condensate. Journal of Low Temperature Physics, 2004, 134, 851-879.	1.4	8
14	Nonlinear vortex dynamics in open nonequilibrium systems with bulk mass loss and a generation mechanism for tornadoes and typhoons. Journal of Experimental and Theoretical Physics, 2010, 110, 1026-1041.	0.9	8
15	New quantum states in the fractional quantum Hall effect regime. Low Temperature Physics, 2005, 31, 171-178.	0.6	7
16	Contributions to the theory of magnetorotational instability and waves in a rotating plasma. Journal of Experimental and Theoretical Physics, 2008, 106, 154-165.	0.9	7
17	The critical temperature as a function of the number of Cooper pairs, and the superconductivity mechanism in a layered LaSrCuO crystal. Low Temperature Physics, 2016, 42, 1184-1186.	0.6	7
18	On the role of the Coulomb interaction in the mechanism of d-wave Cooper pairing of charge carriers in high-T _c superconductors. JETP Letters, 1999, 69, 753-761.	1.4	6

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19	Vertex functions as a factor of enhancing electron-electron attraction in d-wave channel of the $\text{d}\text{-}\text{Coulomb}\text{-}\text{superconductivity}$ mechanism. JETP Letters, 2000, 72, 439-442.	1.4	6
20	Linear-Defect-Induced Thermal Instability in YBCO Thin Films in Microwave Fields. Journal of Superconductivity and Novel Magnetism, 2003, 16, 889-894.	0.5	6
21	Nature of magnetic field and angular dependencies of the critical current density in epitaxial HTS $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Physica C: Superconductivity and Its Applications, 2003, 388-389, 431-432.	1.2	6
22	Acoustic Plasmons and High-Tc Superconductivity of Cuprates with Extended Saddle Point Singularity in Electron Spectrum. International Journal of Modern Physics B, 1998, 12, 2946-2949.	2.0	5
23	On the influence of a square-root van Hove singularity on the critical temperature of high-T c superconductors. JETP Letters, 1998, 67, 495-500.	1.4	4
24	Influence of Long-Range Coulomb Interaction and On-Site Hubbard Repulsion on the Formation of d-Wave Copper-Pairing in High-TcCuprates. Journal of Superconductivity and Novel Magnetism, 2004, 17, 421-430.	0.5	4
25	Features of vortex pinning and magnetic flux creep in epitaxial thin films of high-Tc superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ near the critical temperature. Low Temperature Physics, 2006, 32, 832-837.	0.6	4
26	'Plasmon' mechanism of excitation relaxation and the kinetic and transport anomalies in metal-oxide cuprates. Superconductor Science and Technology, 1992, 5, 507-526.	3.5	3
27	Anomalies in the temperature dependence of the anisotropic gap in high-T c superconductors. JETP Letters, 1996, 63, 583-589.	1.4	3
28	Field behavior of the critical current in quasi-single-crystalline YBCO films. Physica C: Superconductivity and Its Applications, 2004, 401, 316-319.	1.2	3
29	On the mechanism of electromagnetic microwave absorption in superfluid helium. Journal of Experimental and Theoretical Physics, 2012, 115, 273-283.	0.9	3
30	On the mechanism of the formation of magnetohydrodynamic vortices in the solar plasma. Plasma Physics Reports, 2014, 40, 820-827.	0.9	3
31	The big bang as a result of the first-order phase transition driven by a change of the scalar curvature in an expanding early Universe: The hyperinflation scenario. Journal of Experimental and Theoretical Physics, 2016, 122, 52-62.	0.9	3
32	Bipolarons in nonmetallic crystals. Journal of Structural Chemistry, 1987, 27, 1004-1008.	1.0	2
33	The role of the Coulomb interaction in the formation of superconducting and pseudogap states in cuprate metal-oxides. Low Temperature Physics, 2006, 32, 452-456.	0.6	2
34	Features of the temperature dependence and magnetic-field dependence of the critical current density close to the critical temperature in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. Low Temperature Physics, 2010, 36, 81-91.	0.6	2
35	Possibility for the anisotropic acoustic plasmons in LaH_{10} and their role in enhancement of the critical temperature of superconducting transition. Low Temperature Physics, 2022, 48, 26-31.	0.6	2
36	Anisotropic structure of the gap in high-T c superconductors: Competition between s-and d-type symmetry. Journal of Experimental and Theoretical Physics, 1997, 84, 164-174.	0.9	1

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37	Vortex nucleation in the process of phase separation of a supersaturated $3\text{He}^4\text{He}$ mixture. <i>Low Temperature Physics</i> , 2005, 31, 105-110.	0.6	1
38	Possible mechanism of atmospheric vortices development under condensation of water vapor in dense cloud systems. <i>Journal of Molecular Liquids</i> , 2005, 120, 79-82.	4.9	1
39	CRUCIAL ROLE OF THE COULOMB INTERACTION IN HTSC MECHANISM. <i>International Journal of Modern Physics B</i> , 2005, 19, 107-109.	2.0	1
40	A high energy δ -kink in the quasiparticle spectrum as evidence of the importance of charge density fluctuations in the mechanism for high temperature superconductivity in cuprates. <i>Low Temperature Physics</i> , 2010, 36, 716-721.	0.6	1
41	On the nature of the decay phonon spectrum in superfluid helium. <i>Low Temperature Physics</i> , 2010, 36, 576-581.	0.6	1
42	Inflation of the early cold Universe filled with a nonlinear scalar field and a nonideal relativistic Fermi gas. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 433-445.	0.9	1
43	On fast solid-body rotation of the solar core and differential (liquid-like) rotation of the solar surface. <i>Plasma Physics Reports</i> , 2017, 43, 733-740.	0.9	1
44	Anomalous behavior of the microwave surface resistance of the high-T _C superconductors as a result of the δ -multi-petal-gap structure in anisotropic s-wave Cooper pairing. <i>European Physical Journal D</i> , 1996, 46, 971-972.	0.4	0
45	Acoustic plasmons and anomalous thermal conductivity of high-temperature superconductors. <i>European Physical Journal D</i> , 1996, 46, 1001-1002.	0.4	0
46	On the nature of δ -multi-petal structure and anomalous temperature dependence of anisotropic gap in high-temperature superconductors. <i>European Physical Journal D</i> , 1996, 46, 1053-1054.	0.4	0
47	About the Influence of the Square-Root Van Hove Singularity on the Critical Temperature of Overdoped High-Temperature Superconductors. <i>International Journal of Modern Physics B</i> , 1998, 12, 3127-3130.	2.0	0
48	On the Origin of Zero-Bias Conductance Peak in High-T _C Superconductors. <i>International Journal of Modern Physics B</i> , 1998, 12, 3027-3030.	2.0	0
49	A computer investigation of a superfluid Bose liquid with pair interaction and with a coherent condensate of boson pairs as a model of 4He quantum liquid. <i>Journal of Molecular Liquids</i> , 2003, 105, 279-283.	4.9	0
50	Defects-induced thermal instability in YBCO films in microwave field. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 471-472.	1.2	0
51	Mechanism of δ -rigid-body-rotation of the superfluid and normal components during phase separation of a supersaturated $3\text{He}^4\text{He}$ solution. <i>Low Temperature Physics</i> , 2005, 31, 835-838.	0.6	0
52	Peak-effect and angular hysteresis in $J_c(H, \hat{i})$ dependencies for $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{i}}$ epitaxial films. <i>Journal of Physics: Conference Series</i> , 2006, 43, 674-677.	0.4	0
53	Nature of High Critical Current Density in Epitaxial Films of HTS YBCO Cuprate and Coated Conductors. <i>Materials Research Society Symposia Proceedings</i> , 2006, 946, 1.	0.1	0
54	δ -Infrared singularities in the field theory of superfluidity and temperature corrections to the first and second sound velocities in helium II. <i>Low Temperature Physics</i> , 2008, 34, 320-328.	0.6	0

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55	On the possible similarity between electroweak and gravitational interactions. <i>Low Temperature Physics</i> , 2020, 46, 805-808.	0.6	0
56	A Hydrodynamic Instability of a Vortex in Open Systems with a Volumetric Sink and Unlimited Inflow of Matter as a Possible Mechanism of Tornado Emergence. <i>International Journal of Fluid Mechanics Research</i> , 2005, 32, 565-578.	0.4	0
57	10.1007/s11447-008-1013-4. , 2010, 106, 154.		0
58	Charge Density Fluctuations and Gap Symmetry in High-T C Superconductors with Extended Saddle-Point Features in Electron Spectrum. , 1999, , 121-130.		0
59	To the 100-th Anniversary of Kirill Borisovich Tolpygo's Birthday (May 3, 1916–May 13, 1994).. <i>Ukrainian Journal of Physics</i> , 2016, 61, 459-462.	0.2	0
60	VORTICES IN THE FIREBALLS FORMED IN RELATIVISTIC NUCLEAR COLLISIONS. , 2006, , 3-26.		0
61	Collective acoustic electronic excitations in LaH10 as a factor in boosting of the critical temperature of superconducting transition. <i>SN Applied Sciences</i> , 2022, 4, .	2.9	0