

Ernst A Pashitskii

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

621
citations

933447

10
h-index

580821

25
g-index

62
all docs

62
docs citations

62
times ranked

447
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Possibility for the anisotropic acoustic plasmons in LaH10 and their role in enhancement of the critical temperature of superconducting transition. <i>Low Temperature Physics</i> , 2022, 48, 26-31. | 0.6 | 2 |
| 2 | 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 |
| 3 | On the possible similarity between electroweak and gravitational interactions. <i>Low Temperature Physics</i> , 2020, 46, 805-808. | 0.6 | 0 |
| 4 | 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 |
| 5 | 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 |
| 6 | The critical temperature as a function of the number of Cooper pairs, and the superconductivity mechanism in a layered LaSrCuO crystal. <i>Low Temperature Physics</i> , 2016, 42, 1184-1186. | 0.6 | 7 |
| 7 | 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. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 52-62. | 0.9 | 3 |
| 8 | 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 |
| 9 | On the mechanism of the formation of magnetohydrodynamic vortices in the solar plasma. <i>Plasma Physics Reports</i> , 2014, 40, 820-827. | 0.9 | 3 |
| 10 | On the mechanism of electromagnetic microwave absorption in superfluid helium. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 273-283. | 0.9 | 3 |
| 11 | Nonlinear vortex dynamics in open nonequilibrium systems with bulk mass loss and a generation mechanism for tornadoes and typhoons. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 1026-1041. | 0.9 | 8 |
| 12 | On the electric activity of superfluid helium at the excitation of first and second sound waves. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 111, 975-988. | 0.9 | 10 |
| 13 | A high energy "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 |
| 14 | On the nature of the decay phonon spectrum in superfluid helium. <i>Low Temperature Physics</i> , 2010, 36, 576-581. | 0.6 | 1 |
| 15 | Features of the temperature dependence and magnetic-field dependence of the critical current density close to the critical temperature in YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Low Temperature Physics</i> , 2010, 36, 81-91. | 0.6 | 2 |
| 16 | 10.1007/s11447-008-1013-4. , 2010, 106, 154. | | 0 |
| 17 | Contributions to the theory of magnetorotational instability and waves in a rotating plasma. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 106, 154-165. | 0.9 | 7 |
| 18 | On the plasmon mechanism of high-T _c superconductivity in layered crystals and two-dimensional systems. <i>Low Temperature Physics</i> , 2008, 34, 113-122. | 0.6 | 20 |

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|----|--|-----|-----------|
| 19 | â€œInfraredâ€ 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 |
| 20 | On the cause of the electrical activity of superfluid helium upon excitation of a second sound wave and normal-component velocity oscillations in it. <i>Low Temperature Physics</i> , 2007, 33, 8-14. | 0.6 | 24 |
| 21 | Features of vortex pinning and magnetic flux creep in epitaxial thin films of high-Tc superconductor YBa ₂ Cu ₃ O ₇ near the critical temperature. <i>Low Temperature Physics</i> , 2006, 32, 832-837. | 0.6 | 4 |
| 22 | The role of the Coulomb interaction in the formation of superconducting and pseudogap states in cuprate metal-oxides. <i>Low Temperature Physics</i> , 2006, 32, 452-456. | 0.6 | 2 |
| 23 | Peak-effect and angular hysteresis in J _c (H, $\hat{\mu}$) dependencies for YBa ₂ Cu ₃ O ₇ epitaxial films. <i>Journal of Physics: Conference Series</i> , 2006, 43, 674-677. | 0.4 | 0 |
| 24 | 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 |
| 25 | Supercurrent transport in YBa ₂ Cu ₃ O ₇ epitaxial thin films in a dc magnetic field. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 105 |
| 26 | Direct evidence for interfacial superconductivity in two-layer semiconducting heterostructures. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 26 |
| 27 | VORTICES IN THE FIREBALLS FORMED IN RELATIVISTIC NUCLEAR COLLISIONS. , 2006, , 3-26. | | 0 |
| 28 | Vortex nucleation in the process of phase separation of a supersaturated ³ Heâ€“ ⁴ He mixture. <i>Low Temperature Physics</i> , 2005, 31, 105-110. | 0.6 | 1 |
| 29 | Mechanism of â€œrigid-bodyâ€ rotation of the superfluid and normal components during phase separation of a supersaturated ³ Heâ€“ ⁴ He solution. <i>Low Temperature Physics</i> , 2005, 31, 835-838. | 0.6 | 0 |
| 30 | 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 |
| 31 | Critical Current Density of HTS Single Crystal YBCO Thin Films in Applied dc Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 2783-2786. | 1.7 | 12 |
| 32 | CRUCIAL ROLE OF THE COULOMB INTERACTION IN HTSC MECHANISM. <i>International Journal of Modern Physics B</i> , 2005, 19, 107-109. | 2.0 | 1 |
| 33 | New quantum states in the fractional quantum Hall effect regime. <i>Low Temperature Physics</i> , 2005, 31, 171-178. | 0.6 | 7 |
| 34 | 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 |
| 35 | On the Structure of the Superfluid State and Quasiparticle Spectrum in a Bose Liquid with a Suppressed Boseâ€“Einstein Condensate. <i>Journal of Low Temperature Physics</i> , 2004, 134, 851-879. | 1.4 | 8 |
| 36 | Influence of Long-Range Coulomb Interaction and On-Site Hubbard Repulsion on the Formation of d-Wave Copper-Pairing in High-Tc Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2004, 17, 421-430. | 0.5 | 4 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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. Journal of Molecular Liquids, 2003, 105, 279-283. | 4.9 | 0 |
| 40 | 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 |
| 41 | Defects-induced thermal instability in YBCO films in microwave field. Physica C: Superconductivity and Its Applications, 2003, 388-389, 471-472. | 1.2 | 0 |
| 42 | Superfluid Bose Liquid with a Suppressed BEC and an Intensive Pair Coherent Condensate as a Model of ^4He . Physical Review Letters, 2002, 89, 075301. | 7.8 | 30 |
| 43 | Interfacial superconductivity in semiconducting monochalcogenide superlattices. Physical Review B, 2002, 66, . | 3.2 | 28 |
| 44 | Title is missing!. Journal of Superconductivity and Novel Magnetism, 2001, 14, 105-114. | 0.5 | 8 |
| 45 | Vertex functions as a factor of enhancing electron-electron attraction in d-wave channel of the "Coulomb" superconductivity mechanism. JETP Letters, 2000, 72, 439-442. | 1.4 | 6 |
| 46 | 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 |
| 47 | 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 |
| 48 | Charge Density Fluctuations and Gap Symmetry in High- T_C Superconductors with Extended Saddle-Point Features in Electron Spectrum. , 1999, , 121-130. | | 0 |
| 49 | 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 |
| 50 | Current transport through low-angle grain boundaries in high-temperature superconductors. Physical Review B, 1998, 57, 13878-13893. | 3.2 | 178 |
| 51 | About the Influence of the Square-Root Van Hove Singularity on the Critical Temperature of Overdoped High-Temperature Superconductors. International Journal of Modern Physics B, 1998, 12, 3127-3130. | 2.0 | 0 |
| 52 | Acoustic Plasmons and High- T_c Superconductivity of Cuprates with Extended Saddle Point Singularity in Electron Spectrum. International Journal of Modern Physics B, 1998, 12, 2946-2949. | 2.0 | 5 |
| 53 | On the Origin of Zero-Bias Conductance Peak in High- T_c Superconductors. International Journal of Modern Physics B, 1998, 12, 3027-3030. | 2.0 | 0 |
| 54 | Enhancement of superconductivity at structural defects in high-temperature superconductors. Physical Review B, 1997, 56, 6213-6225. | 3.2 | 53 |

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|----|--|-----|-----------|
| 55 | Anisotropic structure of the gap in high-T _c superconductors: Competition between s- and d-type symmetry. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 84, 164-174. | 0.9 | 1 |
| 56 | Anomalous behavior of the microwave surface resistance of the high-T _c superconductors as a result of the "multi-petal" gap structure in anisotropic s-wave Cooper pairing. <i>European Physical Journal D</i> , 1996, 46, 971-972. | 0.4 | 0 |
| 57 | Acoustic plasmons and anomalous thermal conductivity of high-temperature superconductors. <i>European Physical Journal D</i> , 1996, 46, 1001-1002. | 0.4 | 0 |
| 58 | On the nature of "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 |
| 59 | Anomalies in the temperature dependence of the anisotropic gap in high-T _c superconductors. <i>JETP Letters</i> , 1996, 63, 583-589. | 1.4 | 3 |
| 60 | 'Plasmon' mechanism of excitation relaxation and the kinetic and transport anomalies in metal-oxide cuprates. <i>Superconductor Science and Technology</i> , 1992, 5, 507-526. | 3.5 | 3 |
| 61 | Bipolarons in nonmetallic crystals. <i>Journal of Structural Chemistry</i> , 1987, 27, 1004-1008. | 1.0 | 2 |