Alexey Aladyshkin

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/263565/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nucleation of superconductivity and vortex matter in superconductor–ferromagnet hybrids. Superconductor Science and Technology, 2009, 22, 053001. | 3.5 | 204 |
| 2 | Domain-wall superconductivity in hybrid superconductor-ferromagnet structures. Physical Review B, 2003, 68, . | 3.2 | 100 |
| 3 | Domain-Wall Guided Nucleation of Superconductivity in Hybrid Ferromagnet-Superconductor-Ferromagnet Layered Structures. Physical Review Letters, 2005, 95, 227003. | 7.8 | 77 |
| 4 | Thin-film superconductor-ferromagnet hybrids: Competition between nucleation of superconductivity at domain walls and domains' centers. Physical Review B, 2006, 74, . | 3.2 | 42 |
| 5 | Magnetic confinement of the superconducting condensate in superconductor-ferromagnet hybrid composites. Physical Review B, 2007, 76, . | 3.2 | 33 |
| 6 | What is the best gate for vortex entry into type-II superconductor?. Physica C: Superconductivity and Its Applications, 2001, 361, 67-72. | 1.2 | 25 |
| 7 | Planar superconductor/ferromagnet hybrids: Anisotropy of resistivity induced by magnetic templates. Applied Physics Letters, 2009, 94, . | 3.3 | 23 |
| 8 | Localized superconductivity and Little-Parks effect in superconductor/ferromagnet hybrids. Physical Review B, 2007, 75, . | 3.2 | 21 |
| 9 | Domain-wall and reverse-domain superconducting states of a Pb thin-film bridge on a ferromagnetic BaFe12O19single crystal. Physical Review B, 2011, 84, . | 3.2 | 19 |
| 10 | Influence of ferromagnetic nanoparticles on the critical current of Josephson junction. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 406-408. | 2.3 | 17 |
| 11 | Interfacial superconductivity in bilayer and multilayer IV–VI semiconductor heterostructures. Low Temperature Physics, 2008, 34, 985-991. | 0.6 | 17 |
| 12 | Reverse-domain superconductivity in superconductor-ferromagnet hybrids: Effect of a vortex-free channel on the symmetry of I-V characteristics. Applied Physics Letters, 2010, 97, . | 3.3 | 16 |
| 13 | Peculiar superconducting properties of a thin film superconductor–normal metal bilayer with large ratio of resistivities. Superconductor Science and Technology, 2018, 31, 115004. | 3.5 | 15 |
| 14 | Vortex-core properties and vortex-lattice transformation in FeSe. Physical Review B, 2019, 99, . | 3.2 | 15 |
| 15 | The Little–Parks effect and multiquanta vortices in a hybrid superconductor–ferromagnet system. Journal of Physics Condensed Matter, 2003, 15, 6591-6597. | 1.8 | 14 |
| 16 | The diode effect induced by domain-wall superconductivity. Journal of Physics Condensed Matter, 2014, 26, 095702. | 1.8 | 14 |
| 17 | The surface structures growth's features caused by Ge adsorption on the Au(111) surface. JETP Letters, 2017, 106, 217-222. | 1.4 | 11 |
| 18 | Crossover between different regimes of inhomogeneous superconductivity in planar superconductor-ferromagnet hybrids. Physical Review B, 2011, 84, . | 3.2 | 10 |

ALEXEY ALADYSHKIN

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 19 | Edge superconductivity in Nb thin film microbridges revealed by electric transport measurements and visualized by scanning laser microscopy. Superconductor Science and Technology, 2013, 26, 095011. | 3.5 | 8 |
| 20 | Domain-wall superconductivity in a ferromagnet/superconductor/ferromagnet trilayer. Physica C: Superconductivity and Its Applications, 2006, 437-438, 73-76. | 1.2 | 6 |
| 21 | Tunneling interferometry and measurement of the thickness of ultrathin metallic Pb(111) films. JETP Letters, 2017, 106, 491-497. | 1.4 | 6 |
| 22 | Quantum-well and modified image-potential states in thin Pb(111) films: an estimate for the local work function. Journal of Physics Condensed Matter, 2020, 32, 435001. | 1.8 | 6 |
| 23 | Structure of the mixed state induced in thin YBaCuO superconducting films by the field of a small ferromagnetic particle. Journal of Experimental and Theoretical Physics, 1999, 89, 940-947. | 0.9 | 5 |
| 24 | Study of the Nonlinear Response of Superconductors in the Microwave Band Using a Local Technique. Radiophysics and Quantum Electronics, 2003, 46, 109-127. | 0.5 | 5 |
| 25 | Different regimes of nucleation of superconductivity in mesoscopic superconductor/ferromagnet hybrids. Physical Review B, 2008, 77, . | 3.2 | 5 |
| 26 | Tunable anisotropic nonlinearity in superconductors with asymmetric antidot array. Applied Physics Letters, 2008, 93, 082501. | 3.3 | 5 |
| 27 | Effect of ferromagnetic film thickness on magnetoresistance of thin-film superconductor-ferromagnet hybrids. Journal of Applied Physics, 2010, 108, 033911. | 2.5 | 5 |
| 28 | Mesoscopic cross-film cryotrons: Vortex trapping and dc-Josephson-like oscillations of the critical current. Physical Review B, 2011, 83, . | 3.2 | 5 |
| 29 | C60 layer growth on intact and Tl-modified Si(1 1 1)5 × 2-Au surfaces. Applied Surface Science, 2018, 801-807. | 456, 6.1 | 5 |
| 30 | Hybridization and interference effects for localized superconducting states in strong magnetic field. Physical Review B, 2012, 85, . | 3.2 | 4 |
| 31 | Nonuniform Quantum-Confined States and Visualization of Hidden Defects in Pb(111) Films. JETP Letters, 2019, 109, 755-761. | 1.4 | 4 |
| 32 | Experimental investigation of a local mixed state induced by a small ferroparticle in YBaCuO films. IEEE Transactions on Applied Superconductivity, 1999, 9, 1602-1605. | 1.7 | 3 |
| 33 | Formation of bound vortex–antivortex pairs and their depinning in mesoscopic cross-film cryotrons. Physica C: Superconductivity and Its Applications, 2012, 479, 98-101. | 1.2 | 3 |
| 34 | Observation of Hidden Parts of Dislocation Loops in Thin Pb Films by Means of Scanning Tunneling Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 26814-26822. | 3.1 | 3 |
| 35 | Peculiarities of the Resistive State in Mo/Si Superlattices in a Magnetic Field. Modern Physics Letters B, 2003, 17, 627-634. | 1.9 | 2 |
| 36 | Field induced superconductivity in magnetically modulated films. Physica C: Superconductivity and Its Applications, 2008, 468, 741-744. | 1.2 | 2 |

ALEXEY ALADYSHKIN

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Magnetic tunable confinement of the superconducting condensate in superconductor/ferromagnet hybrids. Physica C: Superconductivity and Its Applications, 2008, 468, 737-740. | 1.2 | 2 |
| 38 | Giant anisotropy of the resistance induced by magnetic domains in superconductor/ferromagnet hybrids. Physica C: Superconductivity and Its Applications, 2010, 470, 883-885. | 1.2 | 2 |
| 39 | The Proximity and Josephson Effects in Niobium Nitride–Aluminum Bilayers. Physics of the Solid State, 2019, 61, 1544-1548. | 0.6 | 2 |
| 40 | Localized superconductivity in superconductor-ferromagnet hybrid structures. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 3-7. | 0.6 | 1 |
| 41 | 2D system incorporating perforated Mg sheet sandwiched between Pb layer and Si(111). Applied Surface Science, 2022, 589, 152951. | 6.1 | 1 |
| 42 | Localization of superconductivity in superconductor–electromagnet hybrids. Superconductor Science and Technology, 2012, 25, 065015. | 3.5 | 0 |
| 43 | Erratum to "Formation of bound vortex–antivortex pairs and their depinning in mesoscopic cross-film cryotrons―[Physica C 479 (2012) 98]. Physica C: Superconductivity and Its Applications, 2013, 492, 186. | 1.2 | 0 |
| 44 | Peculiarities of the initial stage of growth of niobium-based nanostructures on a Si(111)-7 × 7 surface. Journal of Surface Investigation, 2016, 10, 273-281. | 0.5 | 0 |
| 45 | Microwave Impedance of Thin-Film Superconductor–Normal Metal Hybrid Structures with a High Conductivity Ratio. Physics of the Solid State, 2019, 61, 1675-1681. | 0.6 | 0 |