# Alexandre Bouzdine

## List of Publications by Citations



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|---|---|---|---|
| 209 papers | 7,358 citations | 42 h-index | 81 g-index |
| 219 ext. papers | 8,182 ext. citations | 3.9 avg, IF | 6.43 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 209 | Proximity effects in superconductor-ferromagnet heterostructures. *Reviews of Modern Physics*, **2005**, 77, 935-976 | 40.5 | 1577 |
| 208 | Transition temperatures of superconductor-ferromagnet superlattices. *Physical Review B*, **1991**, 44, 759-764 | 3.3 | 300 |
| 207 | Thickness dependence of the Josephson ground States of superconductor-ferromagnet-superconductor junctions. *Physical Review Letters*, **2006**, 96, 197003 | 7.4 | 226 |
| 206 | Direct coupling between magnetism and superconducting current in the Josephson phi0 junction. *Physical Review Letters*, **2008**, 101, 107005 | 7.4 | 195 |
| 205 | Long range triplet Josephson effect through a ferromagnetic trilayer. *Physical Review B*, **2007**, 76, | 3.3 | 187 |
| 204 | Spin-orientation□dependent superconductivity in F/S/F structures. *Europhysics Letters*, **1999**, 48, 686-691 | 1.6 | 184 |
| 203 | Possible formation of a nonuniform superconducting state in the heavy-fermion compound UPd2Al3. *Physical Review Letters*, **1993**, 70, 501-504 | 7.4 | 168 |
| 202 | Upper critical fields of superconductor-ferromagnet multilayers. *Physical Review B*, **1988**, 38, 2388-2393 | 3.3 | 131 |
| 201 | Generalized Ginzburg-Landau theory for nonuniform FFLO superconductors. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1997**, 225, 341-348 | 2.3 | 127 |
| 200 | Electromagnetic interaction of vortices in layered superconducting structures. *Journal De Physique*, **1990**, 51, 1971-1978 | | 126 |
| 199 | Enhancement of the superconducting transition temperature in Nb/permalloy bilayers by controlling the domain state of the ferromagnet. *Physical Review Letters*, **2004**, 93, 057002 | 7.4 | 122 |
| 198 | Fluctuation conductivity of layered superconductors in a perpendicular magnetic field. *Physical Review B*, **1993**, 48, 12951-12965 | 3.3 | 121 |
| 197 | Periodic alternating 0- and □junction structures as realization of □Josephson junctions. *Physical Review B*, **2003**, 67, | 3.3 | 114 |
| 196 | Multiple-quanta vortices at columnar defects. *Physical Review B*, **1993**, 47, 11416-11419 | 3.3 | 114 |
| 195 | High quality ferromagnetic 0 and □Josephson tunnel junctions. *Applied Physics Letters*, **2006**, 89, 122511 | 3.4 | 104 |
| 194 | Josephson junctions with second harmonic in the current-phase relation: Properties of □junctions. *Physical Review B*, **2007**, 76, | 3.3 | 99 |
| 193 | Domain-wall superconductivity in hybrid superconductor-ferromagnet structures. *Physical Review B* , **2003**, 68, | 3.3 | 90 |

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| 192 | Giant superconductivity-induced modulation of the ferromagnetic magnetization in a cuprate-manganite superlattice. *Nature Materials*, **2009**, 8, 315-9 | 27 | 87 |
| 191 | pi phase in magnetic-layered superconductors. *Physical Review B*, **1991**, 43, 10124-10131 | 3.3 | 83 |
| 190 | Magnetic moment manipulation by a Josephson current. *Physical Review Letters*, **2009**, 102, 017001 | 7.4 | 78 |
| 189 | Density of states oscillations in a ferromagnetic metal in contact with a superconductor. *Physical Review B*, **2000**, 62, 11377-11379 | 3.3 | 76 |
| 188 | Enhanced supercurrents in Josephson junctions containing nonparallel ferromagnetic domains. *Physical Review Letters*, **2010**, 104, 207001 | 7.4 | 75 |
| 187 | Domain wall superconductivity in ferromagnetic superconductors. *Physical Review B*, **2003**, 67, | 3.3 | 74 |
| 186 | The effect of a magnetic field on the inversion temperature of a spin crossover compound revisited. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2000**, 271, 145-154 | 2.3 | 70 |
| 185 | Anisotropy of the upper critical field in URu2Si2 and FFLO state in antiferromagnetic superconductors. *Physica C: Superconductivity and Its Applications*, **1995**, 250, 128-138 | 1.3 | 67 |
| 184 | Specific paraconductivity along the c-axis in YBa2Cu3O7. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1992**, 166, 267-272 | 2.3 | 66 |
| 183 | Properties of superconductor/ferromagnet structures with spin-dependent scattering. *Physical Review B*, **2006**, 73, | 3.3 | 63 |
| 182 | Interplay of superconductivity and magnetism in superconductor/ferromagnet structures. *Physical Review B*, **2001**, 63, | 3.3 | 63 |
| 181 | Anomalous upper critical field in CeCoIn5/YbCoIn5 superlattices with a Rashba-type heavy Fermion interface. *Physical Review Letters*, **2012**, 109, 157006 | 7.4 | 61 |
| 180 | Local quasiparticle density of states in ferromagnet/superconductor nanostructures. *Physical Review B*, **2001**, 64, | 3.3 | 59 |
| 179 | Structure of the vortex lattice in the Fulde-Ferrell-Larkin-Ovchinnikov state. *Physical Review B*, **2001**, 63, | 3.3 | 55 |
| 178 | New superconducting phases in field-induced organic superconductor lambda-(BETS)2FeCl4. *Physical Review Letters*, **2002**, 88, 227001 | 7.4 | 55 |
| 177 | Thermodynamic properties of ferromagnet/superconductor/ferromagnet nanostructures. *Physical Review B*, **2003**, 67, | 3.3 | 54 |
| 176 | Josephson coupling through ferromagnetic heterojunctions with noncollinear magnetizations. *Physical Review B*, **2006**, 74, | 3.3 | 51 |
| 175 | Non-uniform state in 2D superconductors. *Europhysics Letters*, **1996**, 35, 707-712 | 1.6 | 51 |

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| 174 | Peculiar properties of the Josephson junction at the transition from 0 to π state. *Physical Review B*, **2005**, 72, | 3.3 | 50 |
| 173 | Strong coupling effects on the upper critical field of the heavy-fermion superconductor UBe13. *Journal of Low Temperature Physics*, **1996**, 102, 117-132 | 1.3 | 50 |
| 172 | Unusual field dependence of the reversible magnetization in heavy ions irradiated thallium-based single crystals. *Physica C: Superconductivity and Its Applications*, **1995**, 250, 163-169 | 1.3 | 48 |
| 171 | Electromagnetic pinning of vortices by non-superconducting defects and their influence on screening. *Physica C: Superconductivity and Its Applications*, **1996**, 256, 303-311 | 1.3 | 48 |
| 170 | Ferromagnetic superconductors. *Physics World*, **2002**, 15, 41-46 | 0.5 | 47 |
| 169 | Electromagnetic pinning of vortices on different types of defects. *Physica C: Superconductivity and Its Applications*, **1998**, 294, 257-269 | 1.3 | 43 |
| 168 | Theoretical description of ferromagnetic π junctions near the critical temperature. *Physical Review B*, **2003**, 67, | 3.3 | 43 |
| 167 | Triplet proximity effect in superconducting heterostructures with a half-metallic layer. *Physical Review B*, **2015**, 92, | 3.3 | 41 |
| 166 | Vanishing Meissner effect as a hallmark of in-plane Fulde-Ferrell-Larkin-Ovchinnikov instability in superconductor-ferromagnet layered systems. *Physical Review Letters*, **2012**, 109, 237002 | 7.4 | 41 |
| 165 | Theory of domain-wall superconductivity in superconductor/ferromagnet bilayers. *Physical Review B*, **2006**, 74, | 3.3 | 41 |
| 164 | Scanning tunneling spectroscopy of the superconducting proximity effect in a diluted ferromagnetic alloy. *Physical Review B*, **2005**, 72, | 3.3 | 38 |
| 163 | Theory of the π junctions formed in atomic-scale superconductor/ferromagnet superlattices. *Physical Review B*, **1999**, 59, 587-595 | 3.3 | 38 |
| 162 | Interference phenomena and long-range proximity effect in clean superconductor-ferromagnet systems. *Physical Review Letters*, **2012**, 109, 237006 | 7.4 | 37 |
| 161 | In-plane magnetic field anisotropy of the Fulde-Ferrell-Larkin-Ovchinnikov state in layered superconductors. *Physical Review Letters*, **2012**, 108, 207005 | 7.4 | 37 |
| 160 | Attraction between pancake vortices in the crossing lattices of layered superconductors. *Physical Review Letters*, **2002**, 88, 147002 | 7.4 | 37 |
| 159 | Domain walls and long-range triplet correlations in SFS Josephson junctions. *Physical Review B*, **2011**, 83, | 3.3 | 36 |
| 158 | Optical manipulation of single flux quanta. *Nature Communications*, **2016**, 7, 12801 | 17.4 | 35 |
| 157 | Domain Meissner state and spontaneous vortex-antivortex generation in the ferromagnetic superconductor EuFe(AsP). *Science Advances*, **2018**, 4, eaat1061 | 14.3 | 35 |

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| 156 | Domain structure in a superconducting ferromagnet. *Physical Review Letters*, **2005**, 94, 187202 | 7.4 | 34 |
| 155 | Intrinsic pinning of vortices as a direct probe of the nonuniform Larkin-Ovchinnikov-Fulde-Ferrell state in layered superconductors. *Physical Review Letters*, **2003**, 90, 067003 | 7.4 | 33 |
| 154 | Pressure Dependence of the Upper Critical Field of the Heavy Fermion Superconductor UBe13. *Physical Review Letters*, **1999**, 82, 169-172 | 7.4 | 33 |
| 153 | Parallel field penetration in a layered superconductor. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1992**, 165, 281-284 | 2.3 | 32 |
| 152 | Theory of magnetic structure in reentrant magnetic superconductors HoMo6S8 and ErRh4B4. *Physical Review B*, **1983**, 28, 1370-1388 | 3.3 | 32 |
| 151 | Electromagnetic proximity effect in planar superconductor-ferromagnet structures. *Applied Physics Letters*, **2018**, 113, 022601 | 3.4 | 30 |
| 150 | Magnetic moment manipulation by triplet Josephson current. *Applied Physics Letters*, **2012**, 101, 242602 | 3.4 | 30 |
| 149 | Magnetization reversal by superconducting current in □D Josephson junctions. *Applied Physics Letters*, **2017**, 110, 182407 | 3.4 | 27 |
| 148 | Influence of the paramagnetic effect on the vortex lattice in 2D superconductors. *Europhysics Letters*, **2000**, 50, 375-381 | 1.6 | 27 |
| 147 | Spontaneous Currents in Superconducting Systems with Strong Spin-Orbit Coupling. *Physical Review Letters*, **2017**, 118, 077001 | 7.4 | 26 |
| 146 | New solutions for the superconducting order parameter in a high magnetic field. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1996**, 218, 359-366 | 2.3 | 26 |
| 145 | Structure of the non-uniform Fulde□Ferrell□Larkin□Ovchinnikov state in 3D superconductors. *Physica C: Superconductivity and Its Applications*, **1999**, 316, 89-96 | 1.3 | 25 |
| 144 | Double Path Interference and Magnetic Oscillations in Cooper Pair Transport through a Single Nanowire. *Physical Review Letters*, **2015**, 114, 227001 | 7.4 | 24 |
| 143 | On the theory of electromagnetic pinning of vortices. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2755-2756 | 1.3 | 24 |
| 142 | Unusual behavior of superconductors near the tricritical Lifshitz point. *Journal of Low Temperature Physics*, **1984**, 54, 203-213 | 1.3 | 24 |
| 141 | Nonsinusoidal current-phase relation in strongly ferromagnetic and moderately disordered SFS junctions. *Physical Review B*, **2008**, 78, | 3.3 | 23 |
| 140 | Direct Evidence of Flexomagnetoelectric Effect Revealed by Single-Molecule Spectroscopy. *Physical Review Letters*, **2015**, 115, 027601 | 7.4 | 21 |
| 139 | Thermodynamic nature of the 0□quantum transition in superconductor/ferromagnet/superconductor trilayers. *Physical Review B*, **2014**, 90, | 3.3 | 21 |

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| 138 | Domain structure and magnetic pinning in ferromagnetic/superconducting hybrids. *Physical Review B*, **2012**, 85, | 3.3 | 20 |
| 137 | FFLO state in thin superconducting films. *Europhysics Letters*, **2007**, 80, 67004 | 1.6 | 19 |
| 136 | Phase transitions in a superconducting thin film with a single circular hole. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1994**, 195, 373-379 | 2.3 | 19 |
| 135 | Anomalous fluctuation regimes at FFLO transition. *Europhysics Letters*, **2007**, 79, 67001 | 1.6 | 18 |
| 134 | Junction realization due to tunneling through a thin ferromagnetic layer. *JETP Letters*, **2003**, 78, 583-586 | 1.2 | 17 |
| 133 | Inversion of the proximity effect in atomic-scale ferromagnet/superconductor/ferromagnet trilayers. *Physical Review B*, **2005**, 71, | 3.3 | 17 |
| 132 | Little-Parks oscillations in hybrid ferromagnet-superconductor systems. *Physical Review B*, **2009**, 79, | 3.3 | 16 |
| 131 | Electrostatic analogies in the problems of vortex-defect interactions. *Physica C: Superconductivity and Its Applications*, **2000**, 332, 108-114 | 1.3 | 16 |
| 130 | Generation of a superconducting vortex via Néel skyrmions. *Physical Review B*, **2019**, 99, | 3.3 | 16 |
| 129 | Magnon radiation by moving Abrikosov vortices in ferromagnetic superconductors and superconductor-ferromagnet multilayers. *Physical Review B*, **2014**, 89, | 3.3 | 15 |
| 128 | Fulde-Ferrell-Larkin-Ovchinnikov states and quantum oscillations in mesoscopic superconductors and superfluid ultracold Fermi gases. *Physical Review B*, **2010**, 82, | 3.3 | 15 |
| 127 | Resonance in-plane magnetic field effect as a means to reveal the Fulde-Ferrell-Larkin-Ovchinnikov state in layered superconductors. *Physical Review B*, **2012**, 86, | 3.3 | 15 |
| 126 | Little-Parks effect for arbitrary geometry: fluctuations of the magnetic moment of mesoscopic loops. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1998**, 248, 445-452 | 2.3 | 15 |
| 125 | On the theory of ferromagnet/superconductor heterostructures. *Physica C: Superconductivity and Its Applications*, **2007**, 454, 61-69 | 1.3 | 15 |
| 124 | Inversion of the proximity effect in hybrid ferromagnet-superconductor-ferromagnet structures. *Europhysics Letters*, **2003**, 64, 510-516 | 1.6 | 15 |
| 123 | Decoupling of superconducting layers in the magnetic superconductor RuSr2GdCu2O8. *Physical Review B*, **2001**, 64, | 3.3 | 15 |
| 122 | Thermodynamic properties of atomic superconductor-normal-metal multilayers. *Physical Review B*, **1992**, 45, 7499-7502 | 3.3 | 15 |
| 121 | Thermal nucleation of 2D point vortices in a layered superconductor. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1992**, 167, 89-93 | 2.3 | 15 |

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| 120 | Electromagnetic proximity effect controlled by spin-triplet correlations in superconducting spin-valve structures. *Physical Review B*, **2019**, 99, | 3.3 | 14 |
| 119 | Size of stripe domains in a superconducting ferromagnet. *Physical Review B*, **2011**, 84, | 3.3 | 14 |
| 118 | Vortex states induced by proximity effect in hybrid ferromagnet-superconductor systems. *Physical Review B*, **2007**, 76, | 3.3 | 14 |
| 117 | Specific heat of the antiferromagnetic heavy-fermion superconductor URu2Si2. *Physica C: Superconductivity and Its Applications*, **1994**, 229, 79-89 | 1.3 | 14 |
| 116 | Theory of Magnetic Domain Phases in Ferromagnetic Superconductors. *Physical Review Letters*, **2019**, 122, 117002 | 7.4 | 13 |
| 115 | Standard, inverse, and triplet spin-valve effects in F1/S/F2 systems. *Physical Review B*, **2014**, 89, | 3.3 | 13 |
| 114 | Magnetic gates and guides for superconducting vortices. *Physical Review B*, **2017**, 95, | 3.3 | 13 |
| 113 | Crossover between magnetic vortex attraction and repulsion in thin films of layered superconductors. *Physical Review B*, **2009**, 79, | 3.3 | 13 |
| 112 | Quasiparticle tunnel electroresistance in superconducting junctions. *Nature Communications*, **2020**, 11, 658 | 17.4 | 13 |
| 111 | First order 0□phase transitions in superconductor/ferromagnet/superconductor trilayers. *Physical Review B*, **2015**, 92, | 3.3 | 12 |
| 110 | Peculiarities of the orbital effect in the Fulde-Ferrell-Larkin-Ovchinnikov state in quasi-one-dimensional superconductors. *Physical Review B*, **2014**, 89, | 3.3 | 12 |
| 109 | Long-range singlet proximity effect in ferromagnetic nanowires. *Physical Review B*, **2010**, 82, | 3.3 | 12 |
| 108 | Theory of interplay of nuclear magnetism and superconductivity in AuIn2. *Physical Review B*, **1997**, 56, R11415-R11418 | 3.3 | 12 |
| 107 | Effect of extremely fine Y2BaCuO5 precipitates on the critical current density of melt-processed YBa2Cu3Ox. *Journal of Applied Physics*, **1997**, 81, 7396-7408 | 2.5 | 12 |
| 106 | High-field superconducting transition of CeCoIn5 studied by local magnetic induction measurements. *Physical Review B*, **2007**, 76, | 3.3 | 12 |
| 105 | Critical fluctuations in a mesoscopic superconducting ring. *Physical Review Letters*, **2002**, 89, 076601 | 7.4 | 12 |
| 104 | c-axis penetration depth in Bi2Sr2CaCu2O8+□single crystals measured by ac-susceptibility and cavity perturbation technique. *JETP Letters*, **2000**, 71, 92-96 | 1.2 | 12 |
| 103 | Tailored Flux Pinning in Superconductor-Ferromagnet Multilayers with Engineered Magnetic Domain Morphology From Stripes to Skyrmions. *Physical Review Applied*, **2020**, 13, | 4.3 | 11 |

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| 102 | Manipulating Abrikosov vortices with soft magnetic stripes. *Physical Review B*, **2017**, 95, | 3.3 | 11 |
| 101 | Stimulation of a singlet superconductivity in SFS weak links by spin-exchange scattering of cooper pairs. *Scientific Reports*, **2014**, 4, 5671 | 4.9 | 11 |
| 100 | Extended Lawrence-Doniach model: The temperature evolution of the in-plane magnetic field anisotropy. *Physical Review B*, **2012**, 86, | 3.3 | 11 |
| 99 | Thermal conductivity of pure and Si-doped CuGeO3. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1998**, 245, 127-132 | 2.3 | 11 |
| 98 | Re-orientation of the easy axis in □ -junction. *Europhysics Letters*, **2018**, 122, 37001 | 1.6 | 11 |
| 97 | Temperature Controlled Fulde-Ferrell-Larkin-Ovchinnikov Instability in Superconductor-Ferromagnet Hybrids. *Physical Review Letters*, **2018**, 121, 077002 | 7.4 | 10 |
| 96 | Review on the phase diagram and the upper critical field anisotropy of uranium-based heavy fermion superconductors. *Physica B: Condensed Matter*, **1995**, 206-207, 568-573 | 2.8 | 10 |
| 95 | In Search of Unambiguous Evidence of the Fulde□Ferrell□Larkin□Ovchinnikov State in Quasi-Low Dimensional Superconductors. *Condensed Matter*, **2017**, 2, 30 | 1.8 | 9 |
| 94 | Superconductivity-driven helical magnetic structure in EuRbFe4As4 ferromagnetic superconductor. *Physical Review B*, **2019**, 100, | 3.3 | 9 |
| 93 | Anomalous Josephson effect controlled by an Abrikosov vortex. *Physical Review B*, **2017**, 96, | 3.3 | 9 |
| 92 | Signatures of odd-frequency correlations in the Josephson current of superconductor/ferromagnet hybrid junctions. *Physical Review B*, **2015**, 92, | 3.3 | 9 |
| 91 | Field-Direction Dependence of the Upper Critical Field in Organic Superconductors. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 1283-1287 | 1.5 | 9 |
| 90 | Proximity effect in atomic-scaled hybrid superconductor/ferromagnet structures: Crucial role of electron spectra. *Europhysics Letters*, **2009**, 86, 67002 | 1.6 | 9 |
| 89 | Specific heat at the spin-peierls transition in CuGeO3 under magnetic fields up to 22 tesla. *Journal of Low Temperature Physics*, **1997**, 107, 243-262 | 1.3 | 9 |
| 88 | Upper critical field of heavy fermion superconductors. *Physica B: Condensed Matter*, **1997**, 230-232, 406-408 | 2.8 | 9 |
| 87 | Density of states in SF bilayers with arbitrary strength of magnetic scattering. *JETP Letters*, **2006**, 83, 327-331 | 1.2 | 9 |
| 86 | Field-induced superconductivity with an enhanced and tunable paramagnetic limit. *Physical Review Letters*, **2005**, 95, 167003 | 7.4 | 9 |
| 85 | Regularization of the density-of-states fluctuation contribution in a magnetic field. *Physical Review B*, **1998**, 58, 14195-14198 | 3.3 | 9 |

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| 84 | Influence of spin-orbit scattering on the coexistence phase of the ferromagnetic superconductors ErRh4B4 and HoMo6S8. *Physical Review B*, **1986**, 34, 4928-4931 | 3.3 | 9 |
| 83 | Chirality-controlled spontaneous currents in spin-orbit coupled superconducting rings. *Physical Review B*, **2019**, 99, | 3.3 | 8 |
| 82 | The Fulde-Ferrell-Larkin-Ovchinnikov state in layered d-wave superconductors: in-plane anisotropy and resonance effects in the angular dependence of the upper critical field. *Journal of Physics Condensed Matter*, **2013**, 25, 125702 | 1.8 | 8 |
| 81 | Fluctuating pancake vortices revealed by dissipation of the Josephson vortex lattice. *Physical Review B*, **2011**, 83, | 3.3 | 8 |
| 80 | Faur□and Buzdin Reply:. *Physical Review Letters*, **2005**, 95, | 7.4 | 8 |
| 79 | Vortex clusters and multiquanta flux lattices in thin films of anisotropic superconductors. *Physical Review B*, **2010**, 82, | 3.3 | 7 |
| 78 | Attraction between pancake vortices and vortex molecule formation in the crossing lattices in thin films of layered superconductors. *Physical Review B*, **2012**, 85, | 3.3 | 7 |
| 77 | Fraunhofer patterns in magnetic Josephson junctions with non-uniform magnetic susceptibility. *Scientific Reports*, **2019**, 9, 5616 | 4.9 | 6 |
| 76 | Magnetic Exchange Fields and Domain Wall Superconductivity at an All-Oxide Superconductor-Ferromagnet Insulator Interface. *Physical Review Letters*, **2018**, 121, 077003 | 7.4 | 6 |
| 75 | Phase transitions in the domain structure of ferromagnetic superconductors. *Physical Review B*, **2014**, 89, | 3.3 | 6 |
| 74 | Magnetism and superconductivity in (RE) Ni2B2C: The case of TmNi2B2C. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1997**, 235, 285-290 | 2.3 | 6 |
| 73 | Penetration of Josephson vortices and measurement of the c-axis penetration depth in Bi2Sr2CaCu2O8+□Interplay of Josephson coupling, surface barrier, and defects. *Physical Review B*, **2001**, 63, | 3.3 | 6 |
| 72 | Nonuniform superconducting phases in a layered ferromagnetic superconductor. *Europhysics Letters*, **2002**, 58, 596-602 | 1.6 | 6 |
| 71 | Attractive interaction between superconducting vortices in tilted magnetic fields. *Communications Physics*, **2019**, 2, | 5.4 | 5 |
| 70 | Giant Mesoscopic Fluctuations and Long-Range Superconducting Correlations in Superconductor-Ferromagnet Structures. *Physical Review Letters*, **2016**, 117, 077001 | 7.4 | 5 |
| 69 | Effective model for a short Josephson junction with a phase discontinuity. *Physical Review B*, **2016**, 93, | 3.3 | 5 |
| 68 | Long-range triplet proximity effect in multiply connected ferromagnet-superconductor hybrids. *Physical Review B*, **2019**, 100, | 3.3 | 5 |
| 67 | Competition between □coupling and Fulde-Ferrell-Larkin-Ovchinnikov modulation in a periodic array of ferromagnetic-superconducting bilayers of atomic thickness. *Physical Review B*, **2006**, 73, | 3.3 | 5 |

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| 66 | Triple Approach to Determination of the c-Axis Penetration Depth in BSCCO Crystals. *Journal of Superconductivity and Novel Magnetism*, **2001**, 14, 181-188 | | 5 |
| 65 | Relevance of the scheme of regularization of the density-of-state fluctuation contribution in an arbitrary magnetic field. *Physical Review B*, **2000**, 62, 9721-9725 | 3.3 | 5 |
| 64 | Soliton structure in spin-Peierls systems. *Physical Review B*, **1999**, 59, 11165-11168 | 3.3 | 5 |
| 63 | Nonuniform superconductivity and Josephson effect in a conical ferromagnet. *Physical Review B*, **2019**, 99, | 3.3 | 5 |
| 62 | Spin-orbit coupling suppression and singlet-state blocking of spin-triplet Cooper pairs. *Science Advances*, **2021**, 7, | 14.3 | 5 |
| 61 | FFLO-wave-vector Lock-in Effect in Quasi-1D Superconductors. *Journal of Superconductivity and Novel Magnetism*, **2015**, 28, 1305-1308 | 1.5 | 4 |
| 60 | Clustering of vortex matter in superconductor-ferromagnet superlattices. *Europhysics Letters*, **2015** , 110, 37003 | 1.6 | 4 |
| 59 | Non-uniform Fulde–Ferrell–Larkin–Ovchinnikov (FFLO) state. *Physica B: Condensed Matter*, **2012**, 407, 1912-1914 | 2.8 | 4 |
| 58 | Orientational Effect of the In-Plane Magnetic Field on the FFLO Modulation in Layered Superconductors. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 1657-1661 | 1.5 | 4 |
| 57 | Role of crystal anisotropy on the vortex state in the Fulde-Ferrell-Larkin-Ovchinnikov (FFLO) phase. *Physical Review B*, **2013**, 87, | 3.3 | 4 |
| 56 | Single-molecule spectroscopy as a possible tool to study the electric field in superconductors. *Europhysics Letters*, **2007**, 77, 17005 | 1.6 | 4 |
| 55 | Interplay of magnetism and superconductivity in under hydrostatic pressure. *Journal of Physics Condensed Matter*, **1998**, 10, L749-L755 | 1.8 | 4 |
| 54 | Interplay of magnetism and superconductivity in CeCu2Si2 under hydrostatic pressure.. *Physica B: Condensed Matter*, **1999**, 259-261, 683-685 | 2.8 | 4 |
| 53 | Long-range ballistic transport mechanisms in superconducting spintronics. *Physics-Uspekhi*, **2016**, 59, 571-576 | 2.8 | 4 |
| 52 | Band structure of magnetic excitations in the vortex phase of a ferromagnetic superconductor. *Physical Review B*, **2013**, 87, | 3.3 | 3 |
| 51 | Field-induced superconducting phase in superconductor–normal metal and superconductor-superconductor bilayers. *Physical Review B*, **2011**, 84, | 3.3 | 3 |
| 50 | Localized states at the helicoidal phase transition. *JETP Letters*, **1997**, 65, 814-820 | 1.2 | 3 |
| 49 | Proximity effect in superconductor–ferromagnet heterostructures. *Comptes Rendus Physique*, **2006**, 7, 107-115 | 1.4 | 3 |

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| 48 | Thickness dependence of second-order magnetic phase transitions in films. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 351, 343-349 | 2.3 | 3 |
| 47 | Vortex trapping by tilted columnar defects. *Physical Review B*, **2000**, 61, 11704-11710 | 3.3 | 3 |
| 46 | Surface critical field in layered superconductors. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1995**, 207, 113-117 | 2.3 | 3 |
| 45 | Extremely long-range, high-temperature Josephson coupling across a half-metallic ferromagnet. *Nature Materials*, **2021**, | 27 | 3 |
| 44 | Magnetic flux pumping in superconducting loop containing a Josephson junction. *Applied Physics Letters*, **2020**, 116, 162601 | 3.4 | 2 |
| 43 | Universal phase diagram for transitions to non-uniform states with one-component order parameter. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1998**, 237, 276-282 | 2.3 | 2 |
| 42 | On the theory of surface magnetic first-order phase transition. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 319, 360-366 | 2.3 | 2 |
| 41 | Influence of the nonuniform superconductivity on the upper critical field in the extended saddle-point model. *Physical Review B*, **2001**, 63, | 3.3 | 2 |
| 40 | Surface superconducting states near elliptic antidots and in elliptic microdisks. *Physica C: Superconductivity and Its Applications*, **1999**, 325, 118-126 | 1.3 | 2 |
| 39 | Crossover from ferromagnetic superconductor to superconducting ferromagnet in P-doped EuFe2(As1−xPx)2. *Physical Review B*, **2020**, 102, | 3.3 | 2 |
| 38 | Inverse Faraday Effect for Superconducting Condensates. *Physical Review Letters*, **2021**, 126, 137002 | 7.4 | 2 |
| 37 | Magnetic mapping of defects in type-II superconductors. *Applied Physics Letters*, **2016**, 108, 212602 | 3.4 | 2 |
| 36 | Superconducting vortices generated via spin-orbit coupling at superconductor/ferromagnet interfaces. *Physical Review B*, **2019**, 100, | 3.3 | 2 |
| 35 | Phase transitions in superconductor/ferromagnet bilayer driven by spontaneous supercurrents. *Physical Review B*, **2021**, 103, | 3.3 | 2 |
| 34 | In-situ creation and control of Josephson junctions with a laser beam. *Applied Physics Letters*, **2019**, 114, 142601 | 3.4 | 1 |
| 33 | Interplay between superconductivity and spin-dependent fields in nanowire-based systems. *Physical Review B*, **2020**, 101, | 3.3 | 1 |
| 32 | Vortex Molecules in Thin Films of Layered Superconductors. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 2853-2857 | 1.5 | 1 |
| 31 | Penetration of the magnetic field into the twinning plane in type-I and -II superconductors. *Physical Review B*, **2012**, 86, | 3.3 | 1 |

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