

# Yuri Barash

## List of Publications by Year in descending order

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60  
papers

1,834  
citations

331259

21  
h-index

253896

43  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1157  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial integration of the highly spin-polarized ferromagnetic semiconductor EuO with silicon and GaN. <i>Nature Materials</i> , 2007, 6, 882-887.	13.3	247
2	Low-Temperature Anomaly in the Josephson Critical Current of Junctions ind-Wave Superconductors. <i>Physical Review Letters</i> , 1996, 77, 4070-4073.	2.9	237
3	Charge transport in junctions between d-wave superconductors. <i>Physical Review B</i> , 1995, 52, 665-682.	1.1	141
4	Torque on birefringent plates induced by quantum fluctuations. <i>Physical Review A</i> , 2005, 71, .	1.0	119
5	Quasiparticle bound states and low-temperature peaks of the conductance of NIS junctions in d-wave superconductors. <i>Physical Review B</i> , 1997, 55, 15282-15294.	1.1	111
6	Interplay of spin-discriminated Andreev bound states forming the $\pi$ -transition in superconductor-ferromagnet-superconductor junctions. <i>Physical Review B</i> , 2002, 65, .	1.1	79
7	Low-temperature magnetic penetration depth in d-wave superconductors: Zero-energy bound state and impurity effects. <i>Physical Review B</i> , 2000, 62, 6665-6673.	1.1	72
8	Josephson current in S-FIF-S junctions: Nonmonotonic dependence on misorientation angle. <i>Physical Review B</i> , 2002, 66, .	1.1	58
9	$\pi$ junction behavior and Andreev bound states in Kondo quantum dots with superconducting leads. <i>Physical Review B</i> , 2005, 72, .	1.1	58
10	Moment of van der Waals forces between anisotropic bodies. <i>Radiophysics and Quantum Electronics</i> , 1978, 21, 1138-1143.	0.1	54
11	Magnetic flux periodicity of $h/e$ in superconducting loops. <i>Nature Physics</i> , 2008, 4, 112-115.	6.5	53
12	$\pi$ -Transitions in Josephson Junctions with Antiferromagnetic Interlayers. <i>Physical Review Letters</i> , 2006, 96, 117005.	2.9	47
13	Broadening of Andreev bound states in d-wave superconductors. <i>Physical Review B</i> , 1999, 59, 7102-7107.	1.1	44
14	Quasiparticle interface states in junctions involving d-wave superconductors. <i>Physical Review B</i> , 2000, 61, 678-688.	1.1	41
15	Bound states at the interface between antiferromagnets and superconductors. <i>Physical Review B</i> , 2005, 72, .	1.1	41
16	Effect of impurities on the low-temperature behavior of the specific heat of anisotropic superconductors in a mixed state. <i>JETP Letters</i> , 1997, 65, 638-644.	0.4	40
17	Josephson current between chiral superconductors. <i>Physical Review B</i> , 2001, 64, .	1.1	37
18	Spin-Dependent Quasiparticle Reflection and Bound States at Interfaces with Itinerant Antiferromagnets. <i>Physical Review Letters</i> , 2005, 94, 037005.	2.9	32

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19	Low-Energy Subgap States and the Magnetic Flux Periodicity in $d$ -Wave Superconducting Rings. Physical Review Letters, 2008, 100, 177003.	2.9	32
20	Nonmonotonic magnetic-field dependence and scaling of the thermal conductivity for superconductors with nodes of the order parameter. Physical Review B, 1998, 58, 6476-6492.	1.1	29
21	Effects of spin-orbit interaction on superconductor-ferromagnet heterostructures: Spontaneous electric and spin surface currents. JETP Letters, 2004, 80, 494-499.	0.4	28
22	Current-voltage characteristics of tunnel junctions between superconductors with anisotropic pairing. Journal of Experimental and Theoretical Physics, 1997, 84, 619-634.	0.2	19
23	Josephson effects in $d$ -wave superconductor junctions with magnetic interlayers. Physical Review B, 2008, 77, .	1.1	19
24	Comment on "Superconducting Pairing Symmetry and Josephson Tunneling": Physical Review Letters, 1995, 75, 1676-1676.	2.9	18
25	Interfacial pair breaking and planar weak links with an anharmonic current-phase relation. JETP Letters, 2014, 100, 205-215.	0.4	16
26	Low-temperature properties and specific anisotropy of pure anisotropically paired superconductors. Physical Review B, 1996, 53, 15254-15264.	1.1	15
27	Lateral Josephson effect on the surface of the magnetic Weyl semimetal $\text{CoS}_2$ . Physical Review B, 2020, 101, .	1.1	15
28	Anharmonic Josephson current in junctions with an interface pair breaking. Physical Review B, 2012, 85, .	1.1	13
29	Two regimes for effects of surface disorder on the zero-bias conductance peak of tunnel junctions involving $d$ -wave superconductors. Physical Review B, 2004, 70, .	1.1	9
30	Electronic structure of $d$ -wave superconducting quantum wires. Physical Review B, 2004, 70, .	1.1	8
31	Studies of superconducting field effect transistors with sheet resistances close to the quantum resistance. Applied Physics Letters, 2005, 86, 202505.	1.5	8
32	Sublattice model of atomic scale pairing inhomogeneity in a superconductor. Physical Review B, 2008, 78, .	1.1	8
33	Non-Fraunhofer patterns of the anharmonic Josephson current influenced by strong interfacial pair breaking. Physical Review B, 2012, 86, .	1.1	7
34	Josephson Spin-Valve Realization in the Magnetic Nodal-Line Topological Semimetal $\text{Fe}_3\text{GeTe}_2$ . JETP Letters, 2022, 115, 267-275.	0.4	7
35	Dispersionless modes and the superconductivity of ultrathin films. JETP Letters, 2006, 83, 376-382.	0.4	6
36	Probing interfacial pair breaking in tunnel junctions based on the first and the second harmonics of the Josephson current. Physical Review B, 2012, 85, .	1.1	6

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37	Low-energy quasiparticle states at superconductor/charge-density-wave interfaces. <i>Physical Review B</i> , 2005, 71, .	1.1	4
38	Magnetic interference patterns in superconducting junctions: Effects of anharmonic current-phase relations. <i>Europhysics Letters</i> , 2010, 91, 37001.	0.7	4
39	Vortex lattice distortions in hexagonal unconventional superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 186, 259-264.	0.9	3
40	Josephson and quasiparticle tunneling between anisotropically paired superconductors in the presence of externally applied voltage. <i>European Physical Journal D</i> , 1996, 46, 1013-1014.	0.4	3
41	Low-temperature heat capacity of the mixed state of superconductors with anisotropic pairing. <i>JETP Letters</i> , 1996, 63, 365-369.	0.4	3
42	Influence of an isolated magnetic impurity on an unconventional superconducting state. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 85, 168-172.	0.2	3
43	Comment on "Electrical transport in junctions between unconventional superconductors: Application of the Green's-function formalism". <i>Physical Review B</i> , 2000, 61, 12516-12518.	1.1	3
44	Publisher's Note: Torque on birefringent plates induced by quantum fluctuations [Phys. Rev. A71, 042102 (2005)]. <i>Physical Review A</i> , 2005, 71, .	1.0	3
45	Magnetic penetration depth and vortex structure in anharmonic superconducting junctions with an interfacial pair breaking. <i>Physical Review B</i> , 2014, 89, .	1.1	3
46	The magnetic penetration depth influenced by the proximity to the surface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 045702.	0.7	3
47	Proximity-induced minimum radius of superconducting thin rings closed by the Josephson 0 or $\pi$ junction. <i>Physical Review B</i> , 2017, 95, .	1.1	3
48	Energy of an equilibrium fluctuational electromagnetic field in a medium. <i>Radiophysics and Quantum Electronics</i> , 1973, 16, 836-846.	0.1	2
49	Upper critical field for an unconventional superconducting film: A kink due to the boundary conditions. <i>Physical Review B</i> , 1995, 52, 10344-10358.	1.1	2
50	Proximity-reduced range of internal phase differences in double Josephson junctions with closely spaced interfaces. <i>Physical Review B</i> , 2018, 97, .	1.1	2
51	On anisotropy of the upper critical field in a hexagonal unconventional superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 164, 103-108.	0.9	1
52	Frequency and wave-vector dependence of the fluctuation electromagnetic response near the superconducting transition. <i>Physical Review B</i> , 1993, 48, 6284-6292.	1.1	1
53	Low-temperature behavior of the thermal conductivity in pure superconductors with anisotropic pairing. <i>JETP Letters</i> , 1996, 63, 296-300.	0.4	1
54	Comment on "Half-metallicity in europium oxide conductively matched with silicon". <i>Physical Review B</i> , 2009, 80, .	1.1	1

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55	Phase relations in superconductorâ€“normal metalâ€“superconductor tunnel junctions. Physical Review B, 2019, 99, .	1.1	1
56	Coalescence of Andreev Bound States on the Surface of a Chiral Topological Semimetal. JETP Letters, 2021, 113, 662.	0.4	1
57	Energy characteristics for an electromagnetic field in a nonabsorbing medium with frequency and space dispersions. Radiophysics and Quantum Electronics, 1978, 21, 521-525.	0.1	0
58	Vortex lattice distortions in hexagonal unconventional superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2449-2450.	0.6	0
59	S-N-D corner junctions in magnetic field. JETP Letters, 2001, 73, 420-424.	0.4	0
60	Superconducting Junctions with Ferromagnetic, Antiferromagnetic or Charge-Density-Wave Interlayers. AIP Conference Proceedings, 2006, , .	0.3	0