

# Yuri Barash

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

1,607  
citations

20  
h-index

40  
g-index

61  
ext. papers

1,726  
ext. citations

3.6  
avg, IF

4.35  
L-index

#	Paper	IF	Citations
55	Coalescence of Andreev Bound States on the Surface of a Chiral Topological Semimetal. <i>JETP Letters</i> , <b>2021</b> , 113, 662	1.2	
54	Lateral Josephson effect on the surface of the magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	10
53	The magnetic penetration depth influenced by the proximity to the surface. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 045702	1.8	0
52	Interfacial pair breaking and planar weak links with an anharmonic current-phase relation. <i>JETP Letters</i> , <b>2014</b> , 100, 205-215	1.2	8
51	Magnetic penetration depth and vortex structure in anharmonic superconducting junctions with an interfacial pair breaking. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	1
50	Probing interfacial pair breaking in tunnel junctions based on the first and the second harmonics of the Josephson current. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	4
49	Non-Fraunhofer patterns of the anharmonic Josephson current influenced by strong interfacial pair breaking. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	6
48	Anharmonic Josephson current in junctions with an interface pair breaking. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
47	Magnetic interference patterns in superconducting junctions: Effects of anharmonic current-phase relations. <i>Europhysics Letters</i> , <b>2010</b> , 91, 37001	1.6	4
46	Magnetic flux periodicity of h/e in superconducting loops. <i>Nature Physics</i> , <b>2008</b> , 4, 112-115	16.2	44
45	Sublattice model of atomic scale pairing inhomogeneity in a superconductor. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	8
44	Low-energy subgap states and the magnetic flux periodicity in d-wave superconducting rings. <i>Physical Review Letters</i> , <b>2008</b> , 100, 177003	7.4	29
43	Josephson effects in d-wave superconductor junctions with magnetic interlayers. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	17
42	Epitaxial integration of the highly spin-polarized ferromagnetic semiconductor EuO with silicon and GaN. <i>Nature Materials</i> , <b>2007</b> , 6, 882-7	27	222
41	0- $\pi$ transitions in Josephson junctions with antiferromagnetic interlayers. <i>Physical Review Letters</i> , <b>2006</b> , 96, 117005	7.4	30
40	Dispersionless modes and the superconductivity of ultrathin films. <i>JETP Letters</i> , <b>2006</b> , 83, 376-382	1.2	5
39	Low-energy quasiparticle states at superconductor/charge-density-wave interfaces. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	4

38	Bound states at the interface between antiferromagnets and superconductors. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	29
37	Spin-dependent quasiparticle reflection and bound States at interfaces with itinerant antiferromagnets. <i>Physical Review Letters</i> , <b>2005</b> , 94, 037005	7.4	21
36	Studies of superconducting field effect transistors with sheet resistances close to the quantum resistance. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 202505	3.4	8
35	Junction behavior and Andreev bound states in Kondo quantum dots with superconducting leads. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	51
34	Torque on birefringent plates induced by quantum fluctuations. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	107
33	Publisher's Note: Torque on birefringent plates induced by quantum fluctuations [Phys. Rev. A 71, 042102 (2005)]. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	3
32	Two regimes for effects of surface disorder on the zero-bias conductance peak of tunnel junctions involving d-wave superconductors. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	8
31	Effects of spin-orbit interaction on superconductor-ferromagnet heterostructures: Spontaneous electric and spin surface currents. <i>JETP Letters</i> , <b>2004</b> , 80, 494-499	1.2	20
30	Electronic structure of d-wave superconducting quantum wires. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	8
29	Josephson current in S-FIF-S junctions: Nonmonotonic dependence on misorientation angle. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	53
28	Interplay of spin-discriminated Andreev bound states forming the 0I transition in superconductor-ferromagnet-superconductor junctions. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	72
27	S-N-D corner junctions in magnetic field. <i>JETP Letters</i> , <b>2001</b> , 73, 420-424	1.2	
26	Josephson current between chiral superconductors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	36
25	Quasiparticle interface states in junctions involving d-wave superconductors. <i>Physical Review B</i> , <b>2000</b> , 61, 678-688	3.3	41
24	Low-temperature magnetic penetration depth in d-wave superconductors: Zero-energy bound state and impurity effects. <i>Physical Review B</i> , <b>2000</b> , 62, 6665-6673	3.3	66
23	Comment on Electrical transport in junctions between unconventional superconductors: Application of the Green-function formalism <i>Physical Review B</i> , <b>2000</b> , 61, 12516-12518	3.3	3
22	Broadening of Andreev bound states in dx <sub>2</sub> y <sub>2</sub> superconductors. <i>Physical Review B</i> , <b>1999</b> , 59, 7102-7107	3.3	38
21	Nonmonotonic magnetic-field dependence and scaling of the thermal conductivity for superconductors with nodes of the order parameter. <i>Physical Review B</i> , <b>1998</b> , 58, 6476-6492	3.3	29

20	Quasiparticle bound states and low-temperature peaks of the conductance of NIS junctions in d-wave superconductors. <i>Physical Review B</i> , <b>1997</b> , 55, 15282-15294	3-3	108
19	Current-voltage characteristics of tunnel junctions between superconductors with anisotropic pairing. <i>Journal of Experimental and Theoretical Physics</i> , <b>1997</b> , 84, 619-634	1	18
18	Influence of an isolated magnetic impurity on an unconventional superconducting state. <i>Journal of Experimental and Theoretical Physics</i> , <b>1997</b> , 85, 168-172	1	3
17	Effect of impurities on the low-temperature behavior of the specific heat of anisotropic superconductors in a mixed state. <i>JETP Letters</i> , <b>1997</b> , 65, 638-644	1.2	38
16	Low-temperature properties and specific anisotropy of pure anisotropically paired superconductors. <i>Physical Review B</i> , <b>1996</b> , 53, 15254-15264	3-3	13
15	Josephson and quasiparticle tunneling between anisotropically paired superconductors in the presence of externally applied voltage. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1013-1014		3
14	Low-temperature behavior of the thermal conductivity in pure superconductors with anisotropic pairing. <i>JETP Letters</i> , <b>1996</b> , 63, 296-300	1.2	1
13	Low-temperature heat capacity of the mixed state of superconductors with anisotropic pairing. <i>JETP Letters</i> , <b>1996</b> , 63, 365-369	1.2	3
12	Low-Temperature Anomaly in the Josephson Critical Current of Junctions in d-Wave Superconductors. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4070-4073	7-4	221
11	Charge transport in junctions between d-wave superconductors. <i>Physical Review B</i> , <b>1995</b> , 52, 665-682	3-3	131
10	Comment on "Superconducting Pairing Symmetry and Josephson Tunneling". <i>Physical Review Letters</i> , <b>1995</b> , 75, 1676	7-4	16
9	Upper critical field for an unconventional superconducting film: A kink due to the boundary conditions. <i>Physical Review B</i> , <b>1995</b> , 52, 10344-10358	3-3	2
8	Vortex lattice distortions in hexagonal unconventional superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2449-2450	1-3	
7	Vortex lattice distortions in hexagonal unconventional superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1994</b> , 186, 259-264	2-3	3
6	Frequency and wave-vector dependence of the fluctuation electromagnetic response near the superconducting transition. <i>Physical Review B</i> , <b>1993</b> , 48, 6284-6292	3-3	1
5	On anisotropy of the upper critical field in a hexagonal unconventional superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1992</b> , 164, 103-108	2-3	1
4	Energy characteristics for an electromagnetic field in a nonabsorbing medium with frequency and space dispersions. <i>Radiophysics and Quantum Electronics</i> , <b>1978</b> , 21, 521-525	0-7	
3	Moment of van der Waals forces between anisotropic bodies. <i>Radiophysics and Quantum Electronics</i> , <b>1978</b> , 21, 1138-1143	0-7	41

2	Energy of an equilibrium fluctuational electromagnetic field in a medium. <i>Radiophysics and Quantum Electronics</i> , <b>1973</b> , 16, 836-846	0.7	1
1	Josephson Spin-valve Realization in the Magnetic Nodal-line Topological Semimetal Fe <sub>3</sub> GeTe <sub>2</sub> . <i>JETP Letters</i> ,1	1.2	0