

# Dag Winkler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1596455/publications.pdf>

Version: 2024-02-01

192  
papers

4,378  
citations

136885

32  
h-index

128225

60  
g-index

200  
all docs

200  
docs citations

200  
times ranked

2946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of oxygen vacancies in the SrTiO <sub>3</sub> substrate on the electrical properties of the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Physical Review B, 2007, 75, .	1.1	657
2	Evidence for Coexistence of the Superconducting Gap and the Pseudogap in Bi-2212 from Intrinsic Tunneling Spectroscopy. Physical Review Letters, 2000, 84, 5860-5863.	2.9	306
3	Weak links and dc SQUIDS on artificial nonsymmetric grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Applied Physics Letters, 1991, 59, 3030-3032.	1.5	244
4	Strong temperature dependence of the c-axis gap parameter of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> intrinsic Josephson junctions. Physical Review B, 1996, 53, R8887-R8890.	1.1	133
5	Magnetic Field Dependence of the Superconducting Gap and the Pseudogap in Bi <sub>2</sub> 212 and HgBr <sub>2</sub> -Bi <sub>2</sub> 212, Studied by Intrinsic Tunneling Spectroscopy. Physical Review Letters, 2001, 86, 2657-2660.	2.9	132
6	Electromagnetic properties at the grain boundary interface of a YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> bicrystal Josephson junction. Physical Review Letters, 1994, 72, 1260-1263.	2.9	123
7	Cationic Disorder and Phase Segregation in $\text{LaAlO}_3/\text{SrTiO}_3$ Interface Evidenced by Medium-Energy Ion Spectroscopy. Physical Review Letters, 2009, 103, 146101.	2.9	113
8	Linewidth measurements of Josephson flux flow oscillators in the band 280-330 GHz. Applied Physics Letters, 1993, 62, 3195-3197.	1.5	87
9	Fiske steps in intrinsic Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> stacked Josephson junctions. Physical Review B, 1999, 59, 8463-8466.	1.1	84
10	High-T <sub>c</sub> superconducting quantum interference device recordings of spontaneous brain activity: Towards high-T <sub>c</sub> magnetoencephalography. Applied Physics Letters, 2012, 100, .	1.5	65
11	Intrinsic Tunneling Spectra of Bi <sub>2</sub> (Sr <sub>2-x</sub> Lax)CuO <sub>6+<math>\delta</math></sub> . Physical Review Letters, 2003, 90, 147005.	2.9	61
12	A nanoscale YBCO mixer optically coupled with a bow tie antenna. Superconductor Science and Technology, 1999, 12, 853-855.	1.8	60
13	High-T <sub>c</sub> SQUID biomagnetometers. Superconductor Science and Technology, 2017, 30, 083001.	1.8	60
14	Microstructure of an artificial grain boundary weak link in an YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin film grown on a (100)(110), [001]-tilt Y-ZrO <sub>2</sub> bicrystal. Ultramicroscopy, 1993, 51, 239-246.	0.8	58
15	SCENET roadmap for superconductor digital electronics. Physica C: Superconductivity and Its Applications, 2006, 439, 1-41.	0.6	58
16	In situ controlled fabrication of stacks of high-T <sub>c</sub> intrinsic Josephson junctions. Applied Physics Letters, 1997, 70, 1760-1762.	1.5	57
17	Self-heating in small mesa structures. Journal of Applied Physics, 2001, 89, 5578-5580.	1.1	56
18	Relationship between the Out-Of-Plane Resistance and the Subgap Resistance of Intrinsic Josephson Junctions in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> . Physical Review Letters, 1997, 79, 5122-5125.	2.9	55

#	ARTICLE	IF	CITATIONS
19	PSEUDO-GAP FEATURES OF INTRINSIC TUNNELING IN (HgBr <sub>2</sub> )-Bi <sub>2</sub> 212 SINGLE CRYSTALS. International Journal of Modern Physics B, 1999, 13, 3758-3763.	1.0	55
20	Multiple-valued c-axis critical current and phase locking in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. Physical Review B, 1998, 57, R8135-R8138.	1.1	49
21	Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> intrinsic Josephson junctions in a magnetic field. Physical Review B, 1999, 59, 7196-7204.	1.1	46
22	A new approach for bioassays based on frequency- and time-domain measurements of magnetic nanoparticles. Biosensors and Bioelectronics, 2010, 25, 1008-1013.	5.3	46
23	Flux-flow transistors based on long YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> bicrystal grain boundary junctions. Applied Physics Letters, 1994, 64, 1153-1155.	1.5	45
24	Nano-patterning of the electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface using low-energy ion beam irradiation. Applied Physics Letters, 2013, 102, .	1.5	43
25	Nonequilibrium and bolometric photoresponse in patterned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films. Journal of Applied Physics, 1994, 76, 1902-1909.	1.1	42
26	Improved cationic stoichiometry and insulating behavior at the interface of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> formed at high oxygen pressure during pulsed-laser deposition. Europhysics Letters, 2011, 93, 37001.	0.7	42
27	Static and dynamic properties of stacked Josephson junctions: Analytic solution. Physical Review B, 1997, 56, 9106-9115.	1.1	41
28	Improved step edges on LaAlO <sub>3</sub> substrates by using amorphous carbon etch masks. Applied Physics Letters, 1994, 65, 1177-1179.	1.5	40
29	Josephson flux-flow resonances in overdamped long YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> grain-boundary junctions. Physical Review B, 1995, 51, 8684-8687.	1.1	38
30	Evidence for spin-triplet superconducting correlations in metal-oxide heterostructures with noncollinear magnetization. Physical Review B, 2014, 90, .	1.1	36
31	Intrinsic Josephson tunnel junctions fabricated on the surfaces of Bi <sub>2</sub> 212 single crystals by photolithography. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3269-3270.	0.6	35
32	High-frequency dynamics of hybrid oxide Josephson heterostructures. Physical Review B, 2008, 78, .	1.1	34
33	High-frequency limits of superconducting tunnel junction mixers. Journal of Applied Physics, 1987, 62, 4482-4498.	1.1	33
34	Yurgens et al. Reply:. Physical Review Letters, 2004, 92, .	2.9	32
35	Transient resistive photoresponse of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films using low power 0.8 and 10.6 $\mu$ m laser radiation. Applied Physics Letters, 1994, 64, 3036-3038.	1.5	31
36	Optical mixing in a patterned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin film. Applied Physics Letters, 1994, 65, 3398-3400.	1.5	28

#	ARTICLE	IF	CITATIONS
37	Microstructure and properties of artificial grain boundaries in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films grown on [001] tilt $\text{Y}-\text{ZrO}_2$ bicrystals. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 247, 263-279.	0.6	28
38	Josephson Effect in Hybrid Oxide Heterostructures with an Antiferromagnetic Layer. <i>Physical Review Letters</i> , 2007, 99, 017004.	2.9	27
39	Comparison of Josephson fluxon modes in high- and low-temperature superconducting stacked Josephson junctions. <i>Physical Review B</i> , 2000, 61, 766-777.	1.1	26
40	Evaluation of recipes for obtaining single terminated perovskite oxide substrates. <i>Surface Science</i> , 2009, 603, 151-157.	0.8	24
41	A 7-Channel High- $T_{\text{ext}}$ SQUID-Based On-Scalp MEG System. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1483-1489.	2.5	24
42	Gap and sub-gap structures of intrinsic Josephson tunnel junctions in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystals. , 1996, , .		23
43	Superconducting critical current of a single $\text{Cu}_2\text{O}_4$ plane in $\text{aBi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystal. <i>Physical Review B</i> , 2005, 71, .	1.1	23
44	Grooved Dayem Nanobridges as Building Blocks of High-Performance $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ SQUID Magnetometers. <i>Nano Letters</i> , 2019, 19, 1902-1907.	4.5	23
45	Electromagnetic and microstructural characterization of $\text{YBa}_2\text{Cu}_3\text{O}_7$ step edge junctions on (001) $\text{LaAlO}_3$ substrates. <i>Journal of Applied Physics</i> , 1996, 79, 9213-9220.	1.1	22
46	Bicrystal junctions and superconducting quantum interference devices in $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films. <i>Journal of Applied Physics</i> , 1994, 75, 7972-7977.	1.1	21
47	Optimized transport properties of $\text{LaAlO}_3/\text{SrTiO}_3$ heterointerfaces by variation of pulsed laser fluence. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 305002.	0.7	21
48	Single intrinsic Josephson junction with double-sided fabrication technique. <i>Applied Physics Letters</i> , 2006, 88, 222501.	1.5	20
49	Reversible metal-insulator transition of Ar-irradiated $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. <i>Physical Review B</i> , 2015, 92, .		20
50	Benchmarking for On-Scalp MEG Sensors. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1270-1276.	2.5	20
51	Properties of grooved Dayem bridge based $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconducting quantum interference devices and magnetometers. <i>Applied Physics Letters</i> , 2020, 116, 132601.	1.5	20
52	$9.6 \mu\text{m}$ wavelength mixing in a patterned $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin film. <i>Applied Physics Letters</i> , 1996, 68, 1418-1420.	1.5	19
53	Rapid deposition of biaxially-textured $\text{CeO}_2$ buffer layers on polycrystalline nickel alloy for superconducting tapes by ion assisted pulsed laser deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 336, 70-74.	0.6	19
54	Superconducting Quantum Interference Filters as RF Amplifiers. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 718-721.	1.1	19

#	ARTICLE	IF	CITATIONS
55	Quantum tunneling currents in a superconducting junction. Physical Review Letters, 1991, 67, 3034-3037.	2.9	18
56	Junction parameters of $\text{YBa}_2\text{Cu}_3\text{O}_7$ step edge junctions on $\text{LaAlO}_3$ substrates from Fiske resonances. Applied Physics Letters, 1995, 66, 1677-1679.	1.5	18
57	Interlayer Coupling and Superconducting Critical Temperature of $\text{Bi}_2\text{Sr}_{1.5}\text{La}_{0.5}\text{CuO}_6$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ : Incommensurate Effects of Pressure. Physical Review Letters, 1999, 82, 3148-3151.	2.9	18
58	Fast and Sensitive Measurement of Specific Antigen-Antibody Binding Reactions With Magnetic Nanoparticles and HTS SQUID. IEEE Transactions on Applied Superconductivity, 2009, 19, 848-852.	1.1	18
59	Towards an electrowetting-based digital microfluidic platform for magnetic immunoassays. Lab on A Chip, 2009, 9, 3433.	3.1	18
60	High- $T_c$ SQUID vs. Low- $T_c$ SQUID-Based Recordings on a Head Phantom: Benchmarking for Magnetoencephalography. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	17
61	Superconducting properties of ultrathin $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ single crystals. Journal of Applied Physics, 2005, 98, 033913.	1.1	16
62	High- $T_c$ SQUID gradiometer system for immunoassays. Superconductor Science and Technology, 2008, 21, 034004.	1.8	14
63	On-scalp MEG SQUIDS are sensitive to early somatosensory activity unseen by conventional MEG. NeuroImage, 2020, 221, 117157.	2.1	14
64	Non-Equilibrium Superconductivity in Aluminium Tunnel Junctions by Self-Injection and Millimeter Wave Radiation. Physica Scripta, 1985, 32, 317-322.	1.2	13
65	Properties of artificial grain boundary weak links grown on Y-ZrO <sub>2</sub> bicrystals. Superconductor Science and Technology, 1991, 4, 439-441.	1.8	13
66	Magnetic field dependence of the critical current in stacked Josephson junctions. Evidence for fluxon modes in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ mesas. Physica C: Superconductivity and Its Applications, 1998, 304, 172-178.	0.6	13
67	Analysis of the possibility to amplify an RF signal with a superconducting quantum interference filter. Journal of Communications Technology and Electronics, 2008, 53, 934-940.	0.2	13
68	Retention of Electronic Conductivity in $\text{LaAlO}_3/\text{SrCuO}$ Junctions. Physical Review Applied, 2016, 6, .	1.5	13
69	Homogeneous Differential Magnetic Assay. ACS Sensors, 2019, 4, 2381-2388.	4.0	13
70	SQUID Magnetometer Based on Grooved Dayem Nanobridges and a Flux Transformer. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	13
71	Properties of YBCO junctions and squids on YSZ bicrystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2597-2598.	0.6	12
72	Detection of mm and submm wave radiation from soliton and flux-flow modes in a long Josephson junction. IEEE Transactions on Applied Superconductivity, 1993, 3, 2520-2523.	1.1	12

#	ARTICLE	IF	CITATIONS
73	Imaging of electromagnetic resonances in a YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> bicrystal grain-boundary Josephson junction. <i>Physical Review B</i> , 1995, 52, 93-96.	1.1	12
74	High Resolution Thermal Imaging of Hotspots in Superconducting Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3215-3218.	1.1	12
75	Homogeneous superconductivity at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface probed by nanoscale transport. <i>Physical Review B</i> , 2017, 96, .		
76	Sensitive magnetic biodetection using magnetic multi-core nanoparticles and RCA coils. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 14-18.	1.0	12
77	On-scalp MEG sensor localization using magnetic dipole-like coils: A method for highly accurate co-registration. <i>NeuroImage</i> , 2020, 212, 116686.	2.1	12
78	Partial filling of columnar defects by vortices as seen in measurements of the c-axis critical current of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + <i>x</i> . <i>Physical Review B</i> , 1999, 60, 12480-12484.	1.1	11
79	Improvement of Ultra-Low Field Magnetic Resonance Recordings With a Multilayer Flux-Transformer-Based High-T <sub>c</sub> SQUID Magnetometer. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 1602704-1602704.	1.1	11
80	Magnetic waveguides for neutron reflectometry. <i>Physical Review B</i> , 2017, 96, .	1.1	11
81	Volume-amplified magnetic bioassay integrated with microfluidic sample handling and high-T <sub>c</sub> SQUID magnetic readout. <i>APL Bioengineering</i> , 2018, 2, 016102.	3.3	11
82	Detection of interictal epileptiform discharges: A comparison of on-scalp MEG and conventional MEG measurements. <i>Clinical Neurophysiology</i> , 2020, 131, 1711-1720.	0.7	11
83	The role of kinetic inductance on the performance of YBCO SQUID magnetometers. <i>Superconductor Science and Technology</i> , 2020, 33, 025007.	1.8	11
84	Tunneling through grain boundaries of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> step-edge junctions. <i>Applied Physics Letters</i> , 1996, 68, 2562-2564.	1.5	10
85	Pseudogap features of intrinsic tunneling in Bi <sub>2</sub> 212 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 362, 286-289.	0.6	10
86	Properties of a Biophotovoltaic Nanodevice. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18717-18721.	1.5	10
87	Noise properties of high-T <sub>c</sub> superconducting flux transformers fabricated using chemical-mechanical polishing. <i>Applied Physics Letters</i> , 2012, 101, 042602.	1.5	10
88	Experimental Study of Spectral Properties of a Frenkel-Kontorova System. <i>Physical Review Letters</i> , 2015, 115, 107002.	2.9	10
89	Magnetic proximity effect at the interface between a cuprate superconductor and an oxide spin valve. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 738-747.	0.2	10
90	Feedback solutions for low crosstalk in dense arrays of high-T <sub>c</sub> SQUIDs for on-scalp MEG. <i>Superconductor Science and Technology</i> , 2017, 30, 054006.	1.8	10

#	ARTICLE	IF	CITATIONS
91	Kelvin Probe Force Microscopy Study of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterointerfaces. Journal of Advanced Microscopy Research, 2010, 5, 26-30.	0.3	10
92	Shape of a moving fluxon in stacked Josephson junctions. Physical Review B, 1999, 60, 13179-13188.	1.1	9
93	A SQUID picovoltmeter working at 77 K. IEEE Transactions on Applied Superconductivity, 1999, 9, 3495-3498.	1.1	9
94	Improved coupling of nanowire-based high-T <sub>c</sub> SQUID magnetometers—simulations and experiments. Superconductor Science and Technology, 2017, 30, 115014.	1.8	9
95	A full-band waveguide SIS receiver with integrated tuning for 75-110 GHz. IEEE Transactions on Magnetics, 1991, 27, 2634-2637.	1.2	8
96	Electron beam lithographed straight and wavy YBa <sub>2</sub> /Cu <sub>3</sub> O <sub>7</sub> step edge junctions. IEEE Transactions on Applied Superconductivity, 1995, 5, 2778-2781.	1.1	8
97	A Cys23→Ser23 substitution in the 5-HT receptor gene influences body weight regulation in females with seasonal affective disorder: An Austrian–Canadian collaborative study. Journal of Psychiatric Research, 2005, 39, 561-567.	1.5	8
98	Atomic rearrangements at the TiO <sub>2</sub> -terminated (001)SrTiO <sub>3</sub> surface and growth of thin LaMnO <sub>3</sub> films. Europhysics Letters, 2013, 102, 56003.	0.7	8
99	Electrical and optical properties of a bolometer with a suspended absorber and tunneling-current thermometers. Applied Physics Letters, 2017, 110, .	1.5	8
100	Development of a Sensitive Induction-Based Magnetic Nanoparticle Biodetection Method. Nanomaterials, 2018, 8, 887.	1.9	8
101	Gate-tunable pairing channels in superconducting non-centrosymmetric oxides nanowires. Npj Quantum Materials, 2022, 7, .	1.8	8
102	An integrated superconducting sub-mm wave receiver for linewidth measurements of Josephson flux-flow oscillators. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 726-733.	2.9	7
103	RF characterization of Josephson flux-flow transistors: design, modeling, and on-wafer measurement. IEEE Transactions on Applied Superconductivity, 1995, 5, 3385-3388.	1.1	7
104	Parallel plate resonators in YBa <sub>2</sub> /Cu <sub>3</sub> O <sub>7</sub> bicrystal grain boundaries. IEEE Transactions on Applied Superconductivity, 1995, 5, 2200-2203.	1.1	7
105	Intrinsic tunneling in high-T <sub>c</sub> Bi2212 crystals supports a coexistence of superconducting and pseudo-gaps. Physica C: Superconductivity and Its Applications, 2001, 352, 89-94.	0.6	7
106	Superconducting analogue electronics for research and industry. Superconductor Science and Technology, 2003, 16, 1583-1590.	1.8	7
107	Thickness dependence of the superconducting properties of ultra-thin Bi2Sr2CaCu2O8+x single crystals. Superconductor Science and Technology, 2006, 19, S205-S208.	1.8	7
108	Small-number arrays of intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2008, 468, 674-678.	0.6	7



#	ARTICLE	IF	CITATIONS
109	Effect of various deposition conditions on the electrical properties of LAO/STO hetero interfaces. Journal of Physics: Conference Series, 2008, 100, 082039.	0.3	7
110	Operation of a high- $T_c$ SQUID gradiometer with a two-stage MEMS-based Joule-Thomson micro-cooler. Superconductor Science and Technology, 2016, 29, 095014.	1.8	7
111	Grain boundary evolution of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ in the vicinity of steps on patterned (001) $\text{LaAlO}_3$ substrates. Applied Physics Letters, 1997, 70, 2903-2905.	1.5	6
112	Nucleation and growth of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ on wavy step edges in (001) $\text{LaAlO}_3$ . Journal of Alloys and Compounds, 1997, 251, 19-22.	2.8	6
113	Intrinsic Josephson effects in submicrometre $\text{Bi}_2\text{212}$ mesas fabricated by using focused ion beam etching. Superconductor Science and Technology, 1999, 12, 1013-1015.	1.8	6
114	Grain boundary weak link in a-b plane in $\text{MgB}_2$ film. Applied Physics Letters, 2006, 89, 213111.	1.5	6
115	Self-consistent estimations of heating in stacks of intrinsic Josephson junctions. Superconductor Science and Technology, 2007, 20, S48-S53.	1.8	6
116	Electron transport and microwave dynamics of hybrid $\text{Nb}/\text{Au}/\text{CaSrCuO}/\text{YBaCuO}$ planar Josephson junctions. Journal of Physics: Conference Series, 2010, 234, 042004.	0.3	6
117	Proximity effect and electron transport in oxide hybrid heterostructures with superconducting/magnetic interfaces. Superconductor Science and Technology, 2011, 24, 055012.	1.8	6
118	Magnetorefractive and Kerr effects in the $[\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3]$ superlattices. Superlattices and Microstructures, 2014, 75, 680-691.	1.4	6
119	Hardening of the soft phonon in bulk $\text{SrTiO}_3$ with $\text{LaAlO}_3$ . Physical Review B, 2016, 93, .	1.1	6
120	Nanopatterning of Weak Links in Superconducting Oxide Interfaces. Nanomaterials, 2021, 11, 398.	1.9	6
121	$\text{YBa}_2\text{Cu}_3\text{O}_7/\text{NdGaO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ trilayers by modified off-axis sputtering. Journal of Applied Physics, 1993, 73, 7543-7548.	1.1	5
122	Optical mixing in thin $\text{YBa}_2/\text{Cu}_3/\text{O}_{7-x}$ films. IEEE Transactions on Applied Superconductivity, 1995, 5, 2431-2434.	1.1	5
123	An HTS SQUID picovoltmeter with a flip-chip flux transformer. IEEE Transactions on Applied Superconductivity, 2001, 11, 892-895.	1.1	5
124	Vortex fluctuations in high- $T_c$ thin films close to the resistive transition. Physical Review B, 2004, 70, .	1.1	5
125	Pulsed Laser Deposition of Thin YBCO Films on Faceted YSZ Single Crystal Fibers. Journal of Physics: Conference Series, 2014, 507, 022033.	0.3	5
126	Single-crystalline $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ detectors for direct detection of microwave radiation. Applied Physics Letters, 2015, 106, .	1.5	5



#	ARTICLE	IF	CITATIONS
127	Magnetic field sensing with the kinetic inductance of a high- $T_c$ superconductor. AIP Advances, 2019, 9, .	0.6	5
128	The Superconductor Insulator Superconductor Mixer Receiver " A Review. , 1991, , 55-72.		5
129	High quality YBCO thin films - laser deposition, co-evaporation, and device fabrication. Physica Scripta, 1991, 44, 95-101.	1.2	4
130	Quasiparticle-tuned superconducting mixer. Applied Physics Letters, 1993, 62, 3519-3521.	1.5	4
131	Flux-flow branches and Fiske steps in Bi-2212 mesas. Physica B: Condensed Matter, 2000, 284-288, 1856-1857.	1.3	4
132	An HTS SQUID picovoltmeter used as preamplifier for Rogowski coil sensors. Physica C: Superconductivity and Its Applications, 2002, 368, 130-133.	0.6	4
133	Superconducting weak bonds at grain boundaries in MgB <sub>2</sub> . Journal of Experimental and Theoretical Physics, 2007, 105, 636-641.	0.2	4
134	Temperature sensitivity and noise of an HTSC Josephson detector on a sapphire bicrystal substrate at 77 K. JETP Letters, 2008, 86, 718-720.	0.4	4
135	The need for stable, mono-dispersed, and biofunctional magnetic nanoparticles for one-step magnetic immunoassays. Journal of Physics: Conference Series, 2010, 200, 122006.	0.3	4
136	Growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films with [100] tilt of CuO planes to the surface on SrTiO <sub>3</sub> crystals. Crystallography Reports, 2011, 56, 152-156.	0.1	4
137	Electrical and structural properties of ABO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. Materials Research Society Symposia Proceedings, 2012, 1454, 167-172.	0.1	4
138	Cation stoichiometry and electrical transport properties of the NdGaO <sub>3</sub> /( $\delta$ )SrTiO <sub>3</sub> interface. Journal of Physics Condensed Matter, 2015, 27, 255004.	0.7	4
139	Non-Thermal Absorption and Quantum Efficiency of SINIS Bolometer. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	4
140	Quasiparticle mixing close to the gap frequency in aluminum tunnel junctions. IEEE Transactions on Magnetism, 1985, 21, 896-898.	1.2	3
141	Narrow YBCO microbridges in ultrathin laser deposited films. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1939-1940.	0.6	3
142	Self-induced resonances in YBCO bicrystal grain boundary Josephson junctions. Physica B: Condensed Matter, 1994, 194-196, 1771-1772.	1.3	3
143	Peak in the temperature dependence of the c-axis Josephson current in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> intrinsic Josephson junctions. European Physical Journal D, 1996, 46, 1273-1274.	0.4	3
144	Epitaxial YBa <sub>2</sub> /Cu <sub>3</sub> O <sub>7-(7-x)</sub> thin films on CeO <sub>2</sub> /buffered sapphire for optical mixers. IEEE Transactions on Applied Superconductivity, 1997, 7, 2599-2602.	1.1	3

#	ARTICLE	IF	CITATIONS
145	Josephson flux-flow resonances and transistors based on YBa/sub 2/Cu/sub 3/O/sub 7/ step edge junctions. IEEE Transactions on Applied Superconductivity, 1997, 7, 2623-2626.	1.1	3
146	Current-induced in-plane superconducting transition in intrinsic Josephson junctions. Superconductor Science and Technology, 2006, 19, S209-S212.	1.8	3
147	Intrinsic Josephson junctions formed inside ultra-thin BSCCO single crystals. Superconductor Science and Technology, 2007, 20, S28-S33.	1.8	3
148	Effect of an interface boundary on the magneto-optical and magnetotransport properties of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> heterostructures. Technical Physics, 2010, 55, 1161-1167.	0.2	3
149	In situ detection of radiation and heat balance in large Bi2212 mesas. Physica C: Superconductivity and Its Applications, 2010, 470, 818-821.	0.6	3
150	1D Josephson quantum interference grids: diffraction patterns and dynamics. Journal Physics D: Applied Physics, 2016, 49, 065303.	1.3	3
151	A 90 GHz SINIS Detector With 2 GHz Readout. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	3
152	SUPERCONDUCTING DETECTORS FOR MM AND SUB-MM WAVES. , 1991, , 51-86.		3
153	Voltage dependence of the quality factor of a long Josephson junction. Physica B: Condensed Matter, 1994, 194-196, 137-138.	1.3	2
154	C-axis magnetoresistance of a few atomic surface layers of the Bi:2212 single crystals. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2293-2294.	0.6	2
155	EFFECT OF PRESSURE ON INTERLAYER COUPLING AND SUPERCONDUCTING TRANSITION TEMPERATURE OF Bi-2201 AND Bi-2212. International Journal of Modern Physics B, 1999, 13, 3744-3746.	1.0	2
156	Fluxon modes in stacked HTSC intrinsic Josephson junctions. Applied Superconductivity, 1999, 6, 777-782.	0.5	2
157	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> hot-electron bolometer mixer. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2653-2654.	0.6	2
158	Discharge measurements using a HTS-SQUID based amplifier system. IEEE Transactions on Applied Superconductivity, 2001, 11, 256-259.	1.1	2
159	Noise properties of an YBCO SQUID. Physica C: Superconductivity and Its Applications, 2002, 368, 191-195.	0.6	2
160	Conductivity and antiferromagnetism of CaCuO <sub>2</sub> thin films doped by Sr. Physica C: Superconductivity and Its Applications, 2007, 460-462, 536-537.	0.6	2
161	Growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films with [110] tilt of CuO planes to surface on SrTiO <sub>3</sub> crystals. Crystallography Reports, 2013, 58, 488-492.	0.1	2
162	Characterization of Binding of Magnetic Nanoparticles to Rolling Circle Amplification Products by Turn-On Magnetic Assay. Biosensors, 2019, 9, 109.	2.3	2

#	ARTICLE	IF	CITATIONS
163	Measurements of the Riedel peak in superconducting aluminum tunnel junctions (mixers). IEEE Transactions on Applied Superconductivity, 1993, 3, 2234-2237.	1.1	1
164	A fast infrared detector based on patterned YBCO thin film. Superconductor Science and Technology, 1994, 7, 321-323.	1.8	1
165	Nonequilibrium and bolometric responses of YBaCuO thin films to high-frequency modulated laser radiation. Journal of Superconductivity and Novel Magnetism, 1995, 8, 11-15.	0.5	1
166	Intrinsic Josephson junctions in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ single crystals. European Physical Journal D, 1996, 46, 1293-1294.	0.4	1
167	The c-axis gap parameter and resistivity of an individual intrinsic tunnel junction in Bi-2212 single crystals. Physica C: Superconductivity and Its Applications, 1997, 293, 181-185.	0.6	1
168	Subharmonic locking in Josephson junctions. IEEE Transactions on Applied Superconductivity, 1999, 9, 3745-3748.	1.1	1
169	Title is missing!. Journal of Low Temperature Physics, 1999, 117, 1211-1215.	0.6	1
170	Superconducting films and devices. Current Opinion in Solid State and Materials Science, 1999, 4, 45-52.	5.6	1
171	Intrinsic Josephson tunneling for basic studies of high-temperature superconductors. Current Applied Physics, 2001, 1, 413-417.	1.1	1
172	Fabrication of Bi <sub>2</sub> /Sr <sub>2</sub> /CaCu <sub>2</sub> /O <sub>8</sub> + $\delta$ films and intrinsic Josephson junctions. IEEE Transactions on Applied Superconductivity, 2001, 11, 2703-2706.	1.1	1
173	VORTEX FLUCTUATIONS IN WEAK MAGNETIC FIELDS. Fluctuation and Noise Letters, 2005, 05, R1-R12.	1.0	1
174	Smooth NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + $\delta$ thin films and ramp Josephson junctions. Journal of Physics: Conference Series, 2006, 43, 1139-1142.	0.3	1
175	Inhomogeneous Microstructure and Electrical Transport Properties at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. Japanese Journal of Applied Physics, 2012, 51, 11PG10.	0.8	1
176	Inhomogeneous Microstructure and Electrical Transport Properties at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. Japanese Journal of Applied Physics, 2012, 51, 11PG10.	0.8	1
177	Quantum mixing close to gap frequencies in superconducting tunnel junctions. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 126, 479-480.	0.9	0
178	The fabrication of an integrated superconducting submillimetre wave receiver. Superconductor Science and Technology, 1994, 7, 235-238.	1.8	0
179	Resonant steps due to Josephson flux-flow in long YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> bicrystal junctions. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3251-3252.	0.6	0
180	Differences in the nucleation rate of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + $\delta$ on patterned (001) LaAlO <sub>3</sub> substrates. Physica C: Superconductivity and Its Applications, 1997, 282-287, 623-624.	0.6	0

#	ARTICLE	IF	CITATIONS
181	Vortex fluctuations in YBCO thin films: influence of weak magnetic fields. , 2004, 5469, 129.		0
182	Development of a High-Tc SQUID-Based System for Neurophysiology Studies In-Vitro. Journal of Physics: Conference Series, 2006, 43, 1243-1246.	0.3	0
183	HTS SQUID measurements of evoked magnetic fields from transverse hippocampal slices. International Congress Series, 2007, 1300, 578-581.	0.2	0
184	Intrinsic Josephson junctions in mesas and ultrathin BSCCO single crystals: Ultimate control of shape and dimensions. Physica C: Superconductivity and Its Applications, 2007, 460-462, 316-319.	0.6	0
185	Hybrid superconducting mesa-heterostructure with manganite-ruthenate interlayer. Journal of Physics: Conference Series, 2014, 507, 042007.	0.3	0
186	Triplet superconductivity in oxide ferromagnetic interlayer of mesa-structure. Journal of Physics: Conference Series, 2015, 592, 012136.	0.3	0
187	Nondestructive cleaning of the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> surface with ultraviolet light and ozone. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	0.6	0
188	Spin-triplet superconducting current in metal-oxide heterostructures with composite ferromagnetic interlayer. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	0
189	Introduction to section E4. Handbook of Superconducting Materials, 2002, , 1755-1832.	0.0	0
190	Intrinsic Josephson Tunneling in High-Temperature Superconductors. Nanoscience and Technology, 2010, , 137-161.	1.5	0
191	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> DC-SQUIDS on Y-ZrO <sub>2</sub> Bicrystals. Springer Proceedings in Physics, 1992, , 142-145.	0.1	0
192	Engineered Grain Boundary Junctions " Characteristics, Structure, Applications. , 1994, , 471-490.		0