

# Takao Watanabe

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Revised phase diagram of the high- $T_c$ cuprate superconductor Pb-doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physical Review B</i> , 2022, 105, .	3.2	3
2	Divergent Nematic Susceptibility near the Pseudogap Critical Point in a Cuprate Superconductor. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 064707.	1.6	36
3	Role of the inner copper oxide plane in interlayer Josephson effects in multilayered cuprate superconductors. <i>Physical Review B</i> , 2019, 100, .	3.2	4
4	Incoherent-coherent crossover and the pseudogap in Te-annealed superconducting $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ revealed by magnetotransport measurements. <i>Physical Review B</i> , 2019, 99, .	3.2	14
5	Pressure effect in Bi-2212 and Bi-2223 cuprate superconductor. <i>Applied Physics Express</i> , 2019, 12, 043002.	2.4	10
6	Observation of Bogoliubov Band Hybridization in the Optimally Doped Trilayer $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physical Review B</i> , 2017, 95, 040501.	3.2	14
7	Pressure effect in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Applied Physics Express</i> , 2019, 12, 043002.	3.2	2
8	Density-of-states Fluctuation-induced Negative Out-of-plane Magnetoresistance in Overdoped Bi-2212. <i>Physics Procedia</i> , 2015, 65, 49-52.	1.2	1
9	Unscaling Superconducting Parameters with $T_c$ for Bi-2212 and Bi-2223: A Magnetotransport Study in the Superconductive Fluctuation Regime. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 024706.	1.6	10
10	Doping Dependencies of Onset Temperatures for the Pseudogap and Superconductive Fluctuation in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ , Studied from Both In-Plane and Out-of-Plane Magnetoresistance Measurements. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 064713.	1.6	14
11	Effects of Annealing under Tellurium Vapor for $\text{Fe}_{1.03}\text{Te}_{0.8}\text{Se}_{0.2}$ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 023703.	1.6	33
12	Evolution of interlayer tunneling spectra and superfluid density with doping in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physical Review B</i> , 2012, 85, .	3.2	24
13	Short-Pulse Intrinsic Tunneling Spectroscopy in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ under Suppressed Self Heating. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010112.	1.5	5
14	A model and calculation of evolving tunneling spectra for the gap and pseudogap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Journal of Physics: Conference Series</i> , 2012, 400, 022116.	0.4	0
15	Short-Pulse Intrinsic Tunneling Spectroscopy in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ under Suppressed Self Heating. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 010112.	1.5	1
16	Effect of Carrier Doping on Physical Properties of A-Site Ordered Perovskite $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ . <i>Journal of the Physical Society of Japan</i> , 2011, 80, SA113.	1.6	3
17	Pseudogap phase boundary in overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S153-S154.	1.2	1
18	Significantly doping-dependent Josephson critical current $\mu\text{m}^{-2}$ inhomogeneity in real space or heterogeneity in k-space. <i>Journal of Physics: Conference Series</i> , 2009, 150, 052252.	0.4	7

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19	Tunneling characteristics for nm-thick mesas consisting of a few intrinsic Josephson junctions. Journal of Physics: Conference Series, 2008, 129, 012033.	0.4	4
20	High-Characteristic-Temperature 1.3- $\mu\text{m}$ -Band Laser on an InGaAs Ternary Substrate Grown by the Traveling Liquidus-Zone Method. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1295-1301.	2.9	13
21	Fabrication and Transport Properties for Cleaved Thin Film BSCCO Single Crystals. IEEE Transactions on Applied Superconductivity, 2007, 17, 3533-3536.	1.7	5
22	Fabrication of Small Mesa Structures of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Intrinsic Josephson Junctions Using Polyimide Process: Improvement of Current-Voltage Characteristics with a Very Small Number of Junctions. Japanese Journal of Applied Physics, 2007, 46, 5788-5791.	1.5	7
23	2.1- $\mu\text{m}$ -Wavelength InGaAs Multiple-Quantum-Well Distributed Feedback Lasers Grown by MOVPE Using Sb Surfactant. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1079-1083.	2.9	29
24	Anomalously strong doping dependence of the maximum Josephson current in intrinsic Josephson junctions and inhomogeneous superconducting state in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 386-387.	1.2	1
25	Systematic transport properties and their doping dependences for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystals in a wide doping range. Physica C: Superconductivity and Its Applications, 2007, 460-462, 815-816.	1.2	6
26	Maximum Josephson current and inhomogeneous superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Journal of Physics: Conference Series, 2006, 43, 1110-1113.	0.4	5
27	Superconducting gap and pseudogap for overdoped $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ using 60 ns time-scale short-pulse interlayer tunneling spectroscopy. Physical Review B, 2006, 73, .	3.2	21
28	Surfactant-mediated growth of InGaAs multiple-quantum-well lasers emitting at 2.1 $\mu\text{m}$ by metalorganic vapor phase epitaxy. Applied Physics Letters, 2005, 87, 211903.	3.3	36
29	Superconducting gap and pseudogap in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ by short-pulse interlayer tunneling spectroscopy. Physica C: Superconductivity and Its Applications, 2003, 388-389, 285-286.	1.2	0
30	Tunneling-spectroscopic evidence for unconventional pairing interaction in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physica C: Superconductivity and Its Applications, 2003, 388-389, 295-296.	1.2	0
31	Extended-range short-pulse interlayer tunneling spectroscopy for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2003, 390, 89-94.	1.2	12
32	Gap inhomogeneity, phase separation and a pseudogap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physica C: Superconductivity and Its Applications, 2003, 388-389, 207-208.	1.2	32
33	Temperature and field dependence of the gap structure in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ studied by short-pulse interlayer tunneling spectroscopy. Physica C: Superconductivity and Its Applications, 2003, 388-389, 289-290.	1.2	1
34	Microwave-induced zero-current crossings in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2003, 388-389, 461-462.	1.2	1
35	60 ns time scale short pulse interlayer tunneling spectroscopy for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Applied Physics Letters, 2003, 83, 2381-2383.	3.3	40
36	Interlayer tunneling spectroscopy and doping-dependent energy-gap structure of the trilayer superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ . Physical Review B, 2003, 68, .	3.2	54

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37	Absence of density of states transfer observed by interlayer tunneling spectroscopy in magnetic fields for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ . <i>Physical Review B</i> , 2003, 67, .	3.2	8
38	Structural Study of Inhomogeneous Charge Distribution of Inequivalent $\text{CuO}_2$ Planes in $\text{Bi}_2.1\text{Sr}_{1.9}\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 2924-2929.	1.6	8
39	Doping dependence of anisotropic resistivities in the trilayered superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ . <i>Physical Review B</i> , 2002, 66, .	3.2	49
40	Distinct superconducting gap and the pseudogap in the interlayer tunneling spectroscopy for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ . <i>Physica C: Superconductivity and Its Applications</i> , 2001, 362, 164-168.	1.2	6
41	Single-crystal growth of $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ (Bi-2223) by TSFZ method. <i>Journal of Crystal Growth</i> , 2001, 223, 175-180.	1.5	74
42	Discriminating the Superconducting Gap from the Pseudogap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ by Interlayer Tunneling Spectroscopy. <i>Physical Review Letters</i> , 2000, 85, 4787-4790.	7.8	129
43	Pseudogap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ Studied by Measuring Anisotropic Susceptibilities and Out-of-Plane Transport. <i>Physical Review Letters</i> , 2000, 84, 5848-5851.	7.8	112
44	Atomic image of a $\text{CuO}_2$ plane in the STM image of a $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ cleaved surface. <i>Physical Review B</i> , 2000, 62, 8715-8718.	3.2	16
45	Interlayer Tunneling Spectroscopy for $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ Using Intrinsic Junctions. , 2000, , 29-34.		0
46	Temperature and doping dependence of the $\text{Bi}_2.1\text{Sr}_{1.9}\text{CaCu}_2\text{O}_8+\delta$ pseudogap and superconducting gap. <i>Physical Review B</i> , 1999, 60, 1377-1381.	3.2	88
47	Interlayer Tunneling Spectroscopy for Slightly Overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ . <i>Physical Review Letters</i> , 1999, 82, 5361-5364.	7.8	150
48	Josephson Current and Dissipation of the c-Axis Transport in Magnetic Fields in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ . <i>Physical Review Letters</i> , 1998, 81, 4248-4251.	7.8	38
49	Anisotropic transport properties of impurity (Co) doped and oxygen controlled single-crystal $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ : Evidence of temperature-dependent interlayer coupling and a pseudogap. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1169-1170.	1.2	1
50	Cu-NMR Study on Bilayer High-T <sub>c</sub> Cuprate $\text{La}_{1.89}\text{Ca}_{1.11}\text{Cu}_2\text{O}_6+\delta$ (La2126). <i>Journal of the Physical Society of Japan</i> , 1996, 65, 2768-2771.	1.6	5
51	Cu-NMR study on high-T <sub>c</sub> cuprate $\text{La}_{1.89}\text{Ca}_{1.11}\text{Cu}_2\text{O}_6+\delta$ (La2126). <i>European Physical Journal D</i> , 1996, 46, 2175-2176.	0.4	1
52	Magnetoresistance and high-temperature resistivity of $\text{Bi}_2.1\text{Sr}_{1.9}\text{Ca}_{1.0}\text{Cu}_2\text{O}_8+\delta$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 263, 313-316.	1.2	7
53	Cu-NMR study on high-T <sub>c</sub> cuprate $\text{La}_{1.89}\text{Ca}_{1.11}\text{Cu}_2\text{O}_6+\delta$ (La2126). <i>Journal of Low Temperature Physics</i> , 1996, 105, 401-406.	1.4	0
54	Effects of high-oxygen-pressure annealing on transport properties for $\text{La}_{1.89}\text{Ca}_{1.11}\text{Cu}_2\text{O}_6+\delta$ single crystals. <i>Physical Review B</i> , 1993, 47, 11544-11547.	3.2	13

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55	Single crystal growth and superconductivity in $\text{La}_{1.87}\text{Ca}_{1.13}\text{Cu}_2\text{O}_6$ . Physica C: Superconductivity and Its Applications, 1991, 179, 39-42.	1.2	16
56	Growth and anisotropic properties of superconducting $\text{La}_{2-x}\text{Ca}_{1+x}\text{Cu}_2\text{O}_{6+x/2}$ single crystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1235-1236.	1.2	2