Takao Watanabe

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7065772/publications.pdf

Version: 2024-02-01

56	1,172	516710 16	377865 34
papers	citations	h-index	g-index

56	56	56	715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interlayer Tunneling Spectroscopy for Slightly OverdopedBi2Sr2CaCu2O8+Î´. Physical Review Letters, 1999, 82, 5361-5364.	7.8	150
2	Discriminating the Superconducting Gap from the Pseudogap inBi2Sr2CaCu2O8+Î´by Interlayer Tunneling Spectroscopy. Physical Review Letters, 2000, 85, 4787-4790.	7.8	129
3	Pseudogap inBi2Sr2CaCu2O8+Î´Studied by Measuring Anisotropic Susceptibilities and Out-of-Plane Transport. Physical Review Letters, 2000, 84, 5848-5851.	7.8	112
4	Temperature and doping dependence of theBi2.1Sr1.9CaCu2O8+Î´pseudogap and superconducting gap. Physical Review B, 1999, 60, 1377-1381.	3.2	88
5	Single-crystal growth of Bi2Sr2Ca2Cu3O10+Î´ (Bi-2223) by TSFZ method. Journal of Crystal Growth, 2001, 223, 175-180.	1.5	74
6	Interlayer tunneling spectroscopy and doping-dependent energy-gap structure of the trilayer superconductorBi2Sr2Ca2Cu3O10+Î´. Physical Review B, 2003, 68, .	3.2	54
7	Doping dependence of anisotropic resistivities in the trilayered superconductorBi2Sr2Ca2Cu3O10+Î´. Physical Review B, 2002, 66, .	3.2	49
8	60 ns time scale short pulse interlayer tunneling spectroscopy for Bi2Sr2CaCu2O8+Î´. Applied Physics Letters, 2003, 83, 2381-2383.	3.3	40
9	Josephson Current and Dissipation of thec-Axis Transport in Magnetic Fields inBi2Sr2CaCu2O8+Î´. Physical Review Letters, 1998, 81, 4248-4251.	7.8	38
10	Surfactant-mediated growth of InGaAs multiple-quantum-well lasers emitting at 2.1Î¼m by metalorganic vapor phase epitaxy. Applied Physics Letters, 2005, 87, 211903.	3.3	36
11	Divergent Nematic Susceptibility near the Pseudogap Critical Point in a Cuprate Superconductor. Journal of the Physical Society of Japan, 2020, 89, 064707.	1.6	36
12	Effects of Annealing under Tellurium Vapor for Fe_{1.03}Te_{0.8}Se_{0.2}Single Crystals. Journal of the Physical Society of Japan, 2013, 82, 023703.	1.6	33
13	Gap inhomogeneity, phase separation and a pseudogap in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2003, 388-389, 207-208.	1.2	32
14	2.1-mum-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
15	Evolution of interlayer tunneling spectra and superfluid density with doping in Bi2Sr2CaCu2O8+Î´. Physical Review B, 2012, 85, .	3.2	24
16	Superconducting gap and pseudogap for overdopedBi2â^'xPbxSr2CaCu2O8+Î´using60nstime-scale short-pulse interlayer tunneling spectroscopy. Physical Review B, 2006, 73, .	3.2	21
17	Single crystal growth and superconductivity in La1.87Ca1.13Cu2O6. Physica C: Superconductivity and Its Applications, 1991, 179, 39-42.	1.2	16
18	Atomic image of aCuO2plane in the STM image of aBi2Sr2CaCu2O8+Î´cleaved surface. Physical Review B, 2000, 62, 8715-8718.	3.2	16

#	Article	IF	Citations
19	Doping Dependencies of Onset Temperatures for the Pseudogap and Superconductive Fluctuation in Bi₂Sr₂CaCu₂O_{8+Î´}, Studied from Both In-Plane and Out-of-Plane Magnetoresistance Measurements. Journal of the Physical Society of Japan, 2014, 83, 064713.	1.6	14
20	Observation of Bogoliubov Band Hybridization in the Optimally Doped Trilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ca</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>10</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math> Physical Review Letters, 2017, 119, 217001.	7.8	14
21	Incoherent-coherent crossover and the pseudogap in Te-annealed superconducting Fe1+yTe1â^'xSex revealed by magnetotransport measurements. Physical Review B, 2019, 99, .	3.2	14
22	Effects of high-oxygen-pressure annealing on transport properties forLa1.89Ca1.11Cu2O6Â±Î´single crystals. Physical Review B, 1993, 47, 11544-11547.	3.2	13
23	High-Characteristic-Temperature 1.3-mum-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
24	Extended-range short-pulse interlayer tunneling spectroscopy for Bi2Sr2CaCu2O8+Î´ intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2003, 390, 89-94.	1.2	12
25	Unscaling Superconducting Parameters with Tc for Bi-2212 and Bi-2223: A Magnetotransport Study in the Superconductive Fluctuation Regime. Journal of the Physical Society of Japan, 2015, 84, 024706.	1.6	10
26	Pressure effect in Bi-2212 and Bi-2223 cuprate superconductor. Applied Physics Express, 2019, 12, 043002.	2.4	10
27	Absence of density of states transfer observed by interlayer tunneling spectroscopy in magnetic fields forBi2Sr2CaCu2O8+Î´. Physical Review B, 2003, 67, .	3.2	8
28	Structural Study of Inhomogeneous Charge Distribution of Inequivalent CuO2Planes in Bi2.1Sr1.9Ca2Cu3O10+Î´Single Crystals. Journal of the Physical Society of Japan, 2003, 72, 2924-2929.	1.6	8
29	Magnetoresistance and high-temperature resistivity of Bi2.1Sr1.9Ca1.0Cu2O8+Î´ single crystals. Physica C: Superconductivity and Its Applications, 1996, 263, 313-316.	1.2	7
30	Fabrication of Small Mesa Structures of Bi2Sr2CaCu2O8+Î1ntrinsic Josephson Junctions Using Polyimide Process: Improvement of Currentâ€"Voltage Characteristics with a Very Small Number of Junctions. Japanese Journal of Applied Physics, 2007, 46, 5788-5791.	1.5	7
31	Significantly doping-dependent Josephson critical current â€" inhomogeneity in real space or heterogeneity in k-space. Journal of Physics: Conference Series, 2009, 150, 052252.	0.4	7
32	Distinct superconducting gap and the pseudogap in the interlayer tunneling spectroscopy for Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2001, 362, 164-168.	1.2	6
33	Systematic transport properties and their doping dependences for Bi2Sr2CaCu2O8+Î´ single crystals in a wide doping range. Physica C: Superconductivity and Its Applications, 2007, 460-462, 815-816.	1.2	6
34	Cu-NMR Study on Bilayer High-TcCuprateLa1.89Ca1.11Cu2O6+Î´(La2126). Journal of the Physical Society of Japan, 1996, 65, 2768-2771.	1.6	5
35	Maximum Josephson current and inhomogeneous superconductivity in Bi2Sr2CaCu2O8+Î´. Journal of Physics: Conference Series, 2006, 43, 1110-1113.	0.4	5
36	Fabrication and Transport Properties for Cleaved Thin Film BSCCO Single Crystals. IEEE Transactions on Applied Superconductivity, 2007, 17, 3533-3536.	1.7	5

#	Article	IF	Citations
37	Short-Pulse Intrinsic Tunneling Spectroscopy in Bi₂Sr₂CaCu₂O_{8+Î´}under Suppressed Self Heating. Japanese Journal of Applied Physics, 2012, 51, 010112.	1.5	5
38	Tunneling characteristics for nm-thick mesas consisting of a few intrinsic Josephson junctions. Journal of Physics: Conference Series, 2008, 129, 012033.	0.4	4
39	Role of the inner copper oxide plane in interlayer Josephson effects in multilayered cuprate superconductors. Physical Review B, 2019, 100, .	3.2	4
40	Effect of Carrier Doping on Physical Properties of A-Site Ordered Perovskite CaCu₃Ti₄O₁₂. Journal of the Physical Society of Japan, 2011, 80, SA113.	1.6	3
41	Revised phase diagram of the high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma cuprate superconductor Pb-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:mr mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>6</mml:mn>. Physical Review B, 2022, 105, .	3.2	3
42	Growth and anisotropic properties of superconducting La2â^'xCa1+xCu2O6â^'x/2+Î´ single crystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1235-1236.	1.2	2
43	Origin of Pseudogap Physics Revealed by a Bi-Pb Co-Doped High Tc Cuprate. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Pb</mml:mi><mml:mrow><mml:mn>0.4</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">CaCu</mml:mi><mml:mrow><mml:mn>1.96</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi Pb	3.2	2
44	Cu-NMR study on high-T c cuprate La1.89Ca1.11Cu2O6+Î´ (La2126). European Physical Journal D, 1996, 46, 2175-2176.	0.4	1
45	Anisotropic transport properties of impurity (Co) doped and oxygen controlled single-crystal Bi2Sr2CaCu2O8+Î´: Evidence of temperature-dependent interlayer coupling and a pseudogap. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1169-1170.	1.2	1
46	Temperature and field dependence of the gap structure in Bi2Sr2CaCu2O8+Î´ studied by short-pulse interlayer tunneling spectroscopy. Physica C: Superconductivity and Its Applications, 2003, 388-389, 289-290.	1.2	1
47	Microwave-induced zero-current crossings in Bi2Sr2CaCu2O8+y intrinsic Josephson junctions. Physica C: Superconductivity and Its Applications, 2003, 388-389, 461-462.	1.2	1
48	Anomalously strong doping dependence of the maximum Josephson current in intrinsic Josephson junctions and inhomogeneous superconducting state in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2007, 460-462, 386-387.	1.2	1
49	Pseudogap phase boundary in overdoped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physica C: Superconductivity and Its Applications, 2010, 470, S153-S154.	1.2	1
50	Density-of-states Fluctuation-induced Negative Out-of-plane Magnetoresistance in Overdoped Bi-2212. Physics Procedia, 2015, 65, 49-52.	1.2	1
51	Short-Pulse Intrinsic Tunneling Spectroscopy in Bi₂Sr₂CaCu₂O_{8+Î´}under Suppressed Self Heating. Japanese Journal of Applied Physics, 2012, 51, 010112.	1.5	1
52	Cu-NMR study on high-T c cuprate La1.89Ca1.11Cu2O6+? (La2126). Journal of Low Temperature Physics, 1996, 105, 401-406.	1.4	0
53	Superconducting gap and pseudogap in Bi2Sr2Ca2Cu3O10+Î´ by short-pulse interlayer tunneling spectroscopy. Physica C: Superconductivity and Its Applications, 2003, 388-389, 285-286.	1.2	0
54	Tunneling-spectroscopic evidence for unconventional pairing interaction in Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2003, 388-389, 295-296.	1.2	0

#	Article	IF	Citations
55	A model and calculation of evolving tunneling spectra for the gap and pseudogap in Bi2Sr2CaCu2O8+Î´. Journal of Physics: Conference Series, 2012, 400, 022116.	0.4	0
56	Interlayer Tunneling Spectroscopy for Bi2Sr2CaCu2O8+Î´ Using Intrinsic Junctions. , 2000, , 29-34.		0