Nobuaki Miyakawa

List of Publications by Year
in descending order

73	1,732	394421 19	276875 41
papers	citations	h-index	g-index

73	73	73	1115
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strong Dependence of the Superconducting Gap on Oxygen Doping from Tunneling Measurements onBi2Sr2CaCu2O8â^Î´. Physical Review Letters, 1998, 80, 157-160.	7.8	289
2	Predominantly Superconducting Origin of Large Energy Gaps in UnderdopedBi2Sr2CaCu2O8+Î´from Tunneling Spectroscopy. Physical Review Letters, 1999, 83, 1018-1021.	7.8	202
3	Unusual Strong-Coupling Effects in the Tunneling Spectroscopy of Optimally Doped and OverdopedBi2Sr2CaCu2O8+Î´. Physical Review Letters, 1998, 80, 153-156.	7.8	187
4	Correlation of Tunneling Spectra inBi2Sr2CaCu2O8+Î´with the Resonance Spin Excitation. Physical Review Letters, 2001, 87, 067005.	7.8	160
5	FTIR analysis of a-SiC:H films grown by plasma enhanced CVD. Journal of Crystal Growth, 2005, 275, e1097-e1101.	1.5	94
6	In situ measurements and growth kinetics of silicon carbide chemical vapor deposition from methyltrichlorosilane. Journal of Crystal Growth, 2000, 219, 245-252.	1.5	50
7	Electron correlation in the FeSe superconductor studied by bulk-sensitive photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	48
8	Coexistence of superconductivity and charge-density wave in the quasi-one-dimensional material HfTe3. Scientific Reports, 2017, 7, 45217.	3.3	43
9	Modeling of tunneling spectroscopy in high-Tcsuperconductors incorporating band structure, gap symmetry, group velocity, and tunneling directionality. Physical Review B, 1998, 58, 514-521.	3.2	32
10	Fine Structure in the Tunneling Conductance of a Bi2Sr2CaCu2O8-GaAs Junction. Journal of the Physical Society of Japan, 1989, 58, 383-386.	1.6	31
11	Analysis of Phonon Structures in the Tunneling Conductance of Bi-Cuprates. Journal of the Physical Society of Japan, 1993, 62, 2445-2455.	1.6	31
12	Absence of pseudogap in heavily overdoped Bi 2 Sr 2 CaCu 2 O 8 + Î´ from tunneling spectroscopy of break junctions. Europhysics Letters, 2002, 58, 589-595.	2.0	31
13	Eliashberg Analysis of Tunneling Experiments: Support for the Pairing Glue Hypothesis in Cuprate Superconductors. Physical Review Letters, 2011, 106, 167005.	7.8	30
14	Tunneling Conductance of a Bi2Sr2CaCu2O8-GaAs Junction: Temperature Dependence of the Gap. Journal of the Physical Society of Japan, 1990, 59, 2473-2482.	1.6	26
15	Multiphonon Exchange and the High-TcSuperconductivity of the Multilayer Oxide-Superconductor. Journal of the Physical Society of Japan, 1989, 58, 387-389.	1.6	25
16	Structural and physical properties of FeSe crystals fabricated by the chemical vapor transport method. Physica C: Superconductivity and Its Applications, 2010, 470, S313-S314.	1.2	25
17	TUNNELING SPECTRA AND SUPERCONDUCTING GAP IN Bi2Sr2CaCu2O8+Î´ AND Tl2Ba2CuO6+Î´. International Journal of Modern Physics B, 1999, 13, 3721-3724.	2.0	23
18	Implications of tunneling studies on high-Tc cuprates: superconducting gap and pseudogap. Physica C: Superconductivity and Its Applications, 2001, 364-365, 475-479.	1.2	19

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19	Area dependence and influence of crystal inhomogeneity on superconducting properties of Bi2212 mesa structures. Vacuum, 2015, 120, 89-94.	3.5	19
20	Synthesis and Magnetic Properties of NiSe, NiTe, CoSe, and CoTe. Japanese Journal of Applied Physics, 2012, 51, 053001.	1.5	18
21	Superconductivity on FeSe synthesized by various sintering temperatures. Physica C: Superconductivity and Its Applications, 2010, 470, S518-S520.	1.2	17
22	Low-temperature growth of polycrystalline SiC by catalytic CVD from monomethylsilane. Microelectronic Engineering, 2006, 83, 41-44.	2.4	16
23	Superconducting gap and pseudogap from tunneling conductance on Bi2Sr2CaCu2O8+Î´ with various oxygen concentration. Physica C: Superconductivity and Its Applications, 2000, 341-348, 835-838.	1.2	15
24	High energy secondary peak structure in tunneling spectra (hump) as possible magnetic pseudogap. Physica C: Superconductivity and Its Applications, 2000, 341-348, 867-870.	1.2	15
25	Growth kinetics in plasma CVD of a-SiC films from monomethylsilane revealed by in situ spectroscopy. Journal of Crystal Growth, 2002, 237-239, 1260-1263.	1.5	15
26	Tunneling Studies of Multilayered Superconducting Cuprate (Cu,C)Ba2Ca3Cu4O12+Î´. International Journal of Modern Physics B, 2003, 17, 3612-3616.	2.0	15
27	Tunneling Conductance of a Bi2Sr2CaCu2O8-GaAs Junction along the c-Axis. Journal of the Physical Society of Japan, 1989, 58, 1141-1144.	1.6	15
28	Tunneling conductance of a Bi2?xPbxSr2Ca2Cu3O10?y-SnO2 junction. European Physical Journal B, 1991, 85, 7-14.	1.5	14
29	TUNNELING SPECTROSCOPY OF TRILAYER HIGH-TC CUPRATE, TlBa2Ca2Cu2O10-Î´. International Journal of Modern Physics B, 2005, 19, 225-229.	2.0	14
30	TUNNELING STUDY ON Ba₂Ca₃Cu₄O_{2+δ}<font>O< International Journal of Modern Physics B, 2007, 21, 3233-3237.	1.3	13
31	Thin film growth of silicon cardide from methyl-trichloro-silane by RF plasma-enhanced CVD. Journal of Crystal Growth, 1997, 174, 658-661.	1.5	12
32	Universal features of tunneling conductance on high-Tc cuprates. Physica C: Superconductivity and Its Applications, 2001, 357-360, 126-129.	1.2	11
33	Growth kinetics of hydrogenated amorphous silicon carbide films by RF plasma-enhanced CVD using two kinds of source materials. Thin Solid Films, 2002, 409, 74-77.	1.8	11
34	Probing the Superconducting Gap from Tunneling Conductance on NdFeAsO0.7 with T C=51ÂK. Journal of Superconductivity and Novel Magnetism, 2010, 23, 575-578.	1.8	11
35	Single crystal growth of bulk InGaZnO₄ and analysis of its intrinsic transport properties. CrystEngComm, 2019, 21, 2985-2993.	2.6	11
36	Growth Kinetics of Silicon Carbide Chemical Vapor Deposition from Methyltrichlorosilane. Japanese Journal of Applied Physics, 1999, 38, 2089-2091.	1.5	10

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37	Two Sizes of Superconducting Gaps on an Under-doped Bi2.1Sr1.9Ca2Cu3O10+Î´ with TC âˆ¼ 101K by Tunneling Spectroscopy. Physics Procedia, 2014, 58, 82-85.	1.2	9
38	Characteristic Features of the Mode Energy Estimated from Tunneling Conductance on TlBa₂Ca₂Cu₃O_{8.5+Î´}. Journal of the Physical Society of Japan, 2016, 85, 024702.	1.6	9
39	Thin film like terahertz bolometric detector on Bi2212 single crystal. Optical and Quantum Electronics, 2016, 48, 1.	3.3	9
40	The growth process and optical emission spectroscopy of amorphous silicon carbide films from methyltrichlorosilane by rf plasma enhanced CVD. Surface and Coatings Technology, 2001, 142-144, 360-364.	4.8	8
41	Aspects of the tunneling dip feature in Bi2Sr2CaCu2O8+Î´ and its relation to the resonance spin excitation. Journal of Physics and Chemistry of Solids, 2002, 63, 2247-2251.	4.0	8
42	Reproducibility of Phonon Structures in the Tunneling Conductance of Bi2Sr2CaCu2O8. Journal of the Physical Society of Japan, 1995, 64, 3376-3383.	1.6	7
43	Tunneling spectroscopy of an optimally-doped TlBa2CaCu2O6.5+ with Tcâˆ¼109K. Physica C: Superconductivity and Its Applications, 2010, 470, S178-S180.	1.2	7
44	Syntheses and first-principles calculations of the pseudobrookite compound AlTi2O5. Journal of Physics and Chemistry of Solids, 2019, 127, 252-257.	4.0	7
45	Phonon mechanism of high Tc superconductivity based on the tunneling study of Bi-based cuprates. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1903-1904.	1.2	6
46	Zero-Bias Resistance Peak in Oxide-Semiconductor Junctions. Japanese Journal of Applied Physics, 1992, 31, L1322-L1324.	1.5	6
47	Two-Gap Features from Tunneling Studies on Trilayered Cuprates, HgBa2Ca2Cu3O8+Î´ with Tcâˆ¼132K. AIP Conference Proceedings, 2006, , .	0.4	6
48	Superconductivity of Electron-Doped NdOBiS₂ by Substitution of Mixed-Valence Ce Ions. Journal of the Physical Society of Japan, 2019, 88, 103703.	1.6	6
49	Phonon contribution to superconductivity of Bi2Sr2CaCu2O8. Physica B: Condensed Matter, 1996, 219-220, 192-194.	2.7	5
50	Probing the phase diagram of Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+Î´ with tunneling spectroscopy. IEEE Transactions on Applied Superconductivity, 2003, 13, 893-896.	1.7	5
51	Comparison of Intrinsic Josephson and SIS Tunneling Spectroscopy of<tex>$rm Bi_2rm Sr_2rm CaCu_2rm O_8+delta$</tex>. IEEE Transactions on Applied Superconductivity, 2005, 15, 181-184.	1.7	5
52	Electron-phonon spectral function Î±2F(Ï‰) determined by quasiparticle tunneling spectroscopy for Bi2Sr2CaCu2O8/Au junctions. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1519-1520.	1.2	4
53	Simultaneous quasiparticle and Josephson tunneling in BSCCO-2212 break junctions. IEEE Transactions on Applied Superconductivity, 1999, 9, 2898-2901.	1.7	4
54	Tunneling spectroscopy of heavily underdoped crystals of Bi2Sr2CaCu2O8+Î´. Physica C: Superconductivity and Its Applications, 2000, 341-348, 927-928.	1.2	4

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55	Zasadzinski and Miyakawa Reply:. Physical Review Letters, 2000, 84, 5675-5675.	7.8	3
56	Tunneling conductance of a Bi2Sr2CaCu2O8-SnO2 junction along the c-axis. Applied Physics A: Materials Science and Processing, 1991, 52, 1-6.	2.3	3
57	Anharmonic Phonon Structure in the Tunneling Conductance of Bi-Cuprates. Japanese Journal of Applied Physics, 1993, 32, L825-L827.	1.5	2
58	Tunneling spectroscopy on an electron-doped Pr1-xLaCexCuO4withx= 0.11. Journal of Physics: Conference Series, 2009, 150, 052163.	0.4	2
59	Doping Dependence on Two Sizes of Superconducting Gaps on Tl1223 by Tunneling Spectroscopy at 4.2K. Physics Procedia, 2015, 65, 45-48.	1.2	2
60	Temperature dependence of the spectral function of the electron-phonon interaction for Bi2Sr2CaCu2O8. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1517-1518.	1.2	1
61	Synthesis and Electronic Properties of TlFe₂Se_{2-Î´}. Solid State Phenomena, 0, 170, 47-50.	0.3	1
62	Phase relations in the pseudo ternary system In2O3-TiO2-BO (B: Zn, Co and Ni) at 1200 Â°C in air. Journal of Solid State Chemistry, 2018, 258, 865-875.	2.9	1
63	Transport properties of transition-metal doped BiS2-based superconductors. AIP Advances, 2018, 8, 101322.	1.3	1
64	Superconductivity induced by hydrostatic pressure effect in LaO0.5F0.5Bi(S0.9Se0.1)2. AIP Advances, 2018, 8, 101325.	1.3	1
65	Different electronic states at crystallographically inequivalent CuO₂planes on four-layered cuprates HgBa₂Ca₃Cu₄O_{10+Î´}. Journal of Physics: Conference Series, 2018, 969, 012031.	0.4	1
66	Recent progress of the single crystal growth of homologous (InGaO₃)_m(ZnO)_n. CrystEngComm, 2022, 24, 4481-4495.	2.6	1
67	Transport properties of layered ruthenates Sr2Ru1_rZrxO4. Journal of Physics: Conference Series, 2009, 150, 022094.	0.4	0
68	Temperature dependence of tunneling conductance on an overdoped Pr0.82LaCe0.18CuO4 with Tcâ‰¼16K. Physica C: Superconductivity and Its Applications, 2010, 470, S29-S30.	1.2	0
69	Fabrication of double mesa structures by E-beam lithography from high temperature superconducting Bi<inf>2</inf>Sr<inf>2</inf>CaCu<inf>2</inf>O<inf>8+Î´</inf> (Bi2212) for powerful terahertz emission. , 2011, , .		0
70	Electronic structures of the FeSe superconductor studied by high-energy photoelectron spectroscopy. Journal of Physics: Conference Series, 2012, 391, 012141.	0.4	0
71	Bulk-Sensitive Photoemission Spectroscopy of TlFe2Se2. Journal of Physics: Conference Series, 2012, 391, 012115.	0.4	0
72	Oxide Ion Conduction of BaCe_{0.80}Zr_{0.10}Y_{0.10}O_{3-Î´} Thin Film with Oxygen Vacancies. Transactions of the Materials Research Society of Japan, 2017, 42, 97-100.	0.2	0

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73	Hydrostatic Pressure Effect in Non-Doping LaOBiSSe and Hole-Doping La1â^'xSrxOBiS2. , 2020, , .		0