

# Hitoshi Kitaguchi

## List of Publications by Year in descending order

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69  
papers

1,711  
citations

393982

19  
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276539

41  
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70  
docs citations

70  
times ranked

559  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-TcPhase Promoted and Stabilized in the Bi, Pb-Sr-Ca-Cu-O System. Japanese Journal of Applied Physics, 1988, 27, L1041-L1043.	0.8	765
2	The High-TcPhase with a New Modulation Mode in the Bi, Pb-Sr-Ca-Cu-O System. Japanese Journal of Applied Physics, 1988, 27, L2067-L2070.	0.8	79
3	Improvement of Reproducibility of High Transport for Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>y</sub> /Ag Tapes by Controlling Bi Content. Japanese Journal of Applied Physics, 1992, 31, L1328-L1331.	0.8	53
4	Improvement in the critical current density of ex situ powder in tube processed MgB <sub>2</sub> tapes by utilizing powder prepared from an in situ processed tape. Applied Physics Letters, 2006, 88, 022513.	1.5	48
5	Generation of 21.5 T by a superconducting magnet system using a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> /Ag coil as an insert magnet. Applied Physics Letters, 1994, 65, 898-900.	1.5	47
6	Equilibrium phase diagram for the system PbO-CaO-CuO. Journal of Materials Research, 1990, 5, 929-931.	1.2	46
7	Processing and fabrication of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>v</sub> /Ag tapes and small scale coils. Applied Superconductivity, 1993, 1, 43-51.	0.5	43
8	Fabrication of a Bi-2212/Ag Pancake Coil Generating 6000 G at 4.2 K in 12 T. Japanese Journal of Applied Physics, 1992, 31, L163-L165.	0.8	42
9	Equilibrium phase diagrams for the systems PbO-SrO-CuO and PbO-CaO-SrO. Journal of Materials Research, 1990, 5, 1397-1402.	1.2	40
10	Newly Designed 3 T MRI Magnet Wound With Bi-2223 Tape Conductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 4400904-4400904.	1.1	40
11	Development of a Bi-2223 HTS Magnet for 3T MRI System for Human Brains. IEEE Transactions on Applied Superconductivity, 2010, 20, 710-713.	1.1	38
12	Bi-2211/Ag Superconducting Insert Magnet for High Magnetic Field Generation over 22 T. Japanese Journal of Applied Physics, 1996, 35, L623-L626.	0.8	37
13	Study on the heat treatment condition to improve coupling of grains in Bi <sub>2-x</sub> Pb <sub>x</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>y</sub> /Ag tapes. Physica C: Superconductivity and Its Applications, 2000, 331, 79-84.	0.6	37
14	Electrical and Mechanical Properties of DI-BSCCO Type HT Reinforced With Metallic Sheathes. IEEE Transactions on Applied Superconductivity, 2009, 19, 3014-3017.	1.1	36
15	Synthesis of YNi <sub>2</sub> B <sub>2</sub> C thin films by magnetron sputtering. Applied Physics Letters, 1994, 65, 1299-1301.	1.5	35
16	Effect of Cooling Rate on Critical Current Density for Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> /Ag Composite Tapes. Japanese Journal of Applied Physics, 1992, 31, L1167-L1169.	0.8	34
17	Superconductor with T <sub>c</sub> = 117 K in the Bi-Pb-Sr-Ca-Cu-O system. Physica C: Superconductivity and Its Applications, 1990, 170, 249-253.	0.6	33
18	Fabrication of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> Tapes and Coils. , 1992, , 547-552.		28

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19	Analysis of an Abnormal Event in a 3-T MRI Magnet Wound With Bi-2223 Tape Conductors. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	22
20	Critical current density distribution in superconducting oxide layer of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> /Ag composite tapes. Physica C: Superconductivity and Its Applications, 1998, 301, 111-115.	0.6	21
21	Equilibrium Phase Diagram for the La <sub>2</sub> O <sub>3</sub> -SrO-CuO System at 1173K in Air. Journal of the Ceramic Society of Japan, 1988, 96, 397-400.	1.3	17
22	Magnetic suspension of a Bi, Pb-Sr-Ca-Cu-O superconductor due to the Meissner effect. Physica C: Superconductivity and Its Applications, 1989, 157, 267-271.	0.6	13
23	Fabrication and properties of superconducting magnets using Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> /Ag tapes. Cryogenics, 1996, 36, 485-490.	0.9	13
24	Applicability of Weibull Distribution to Description of Distributed Normalized Critical Current of Bent-Damaged Bi2223 Composite Tape. Materials Transactions, 2010, 51, 1663-1670.	0.4	12
25	Development of a Superconducting Joint Resistance Evaluation System. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	11
26	A Bi-2223 Layer-Winding Coil Using 540 m Tape Including a Joint Inside the Winding. IEEE Transactions on Applied Superconductivity, 2011, 21, 1624-1627.	1.1	8
27	High-temperature-tolerable superconducting Nb-alloy and its application to Pb- and Cd-free superconducting joints between NbTi and Nb <sub>3</sub> Sn wires. Journal of Materials Science, 2021, 56, 20197-20207.	1.7	7
28	Equilibrium phase diagrams for the systems Bi <sub>2</sub> O <sub>3</sub> -PbO-CaO and Bi <sub>2</sub> O <sub>3</sub> -PbO-SrO at 873K and 1073K in air.. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1988, 35, 952-958.	0.1	6
29	Characterization of Pb-Bi-Sr-Ca-Cu-O high-T <sub>c</sub> phase.. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1988, 35, 965-969.	0.1	6
30	Critical current density distribution in the superconducting oxide layer of pre-annealing and intermediate-rolling processed composite tapes. Superconductor Science and Technology, 1998, 11, 1237-1240.	1.8	6
31	TEM Analysis of Microstructures in Nano-sized SiC-doped MgB <sub>2</sub> Tapes. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2006, 41, 510-518.	0.1	6
32	Effect of additions of Ca compounds to the filling powder on the reduction of MgO and the critical current density properties of ex situ processed MgB <sub>2</sub> tapes. Journal of Alloys and Compounds, 2016, 664, 650-656.	2.8	6
33	Improved critical current density in ex situ processed MgB <sub>2</sub> tapes by the size reduction of grains and crystallites by high-energy ball milling. Cryogenics, 2017, 82, 15-24.	0.9	6
34	Development of MgB <sub>2</sub> New Superconducting Tapes and Wires.. TEION KOGAKU (Journal of Cryogenics) Tj ETQq0 0,0,rgBT /Overlock 10 0,1		
35	Preparation of Bi-Pb-Sr-Ca-Cu-O high-TC superconductor from coprecipitated oxalate.. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1988, 35, 424-427.	0.1	5
36	Equilibrium phase diagrams for the systems PbO-RO-R'O (R, R'=Ca, Sr, Cu).. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1989, 36, 533-541.	0.1	5

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37	Fabrication and Characterization of Superconducting Probe Coil for High-Sensitivity NMR Spectroscopy. IEEE Transactions on Applied Superconductivity, 2009, 19, 386-388.	1.1	5
38	The Microstructure and Superconducting Properties of Bi,Pb-2223 Thin Film Fabricated by RF Sputtering and Annealing Method. IEEE Transactions on Applied Superconductivity, 2013, 23, 7500504-7500504.	1.1	5
39	Fabrication and transport properties of a solenoidal coil wound with Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> /Ag multifilamentary tapes for high magnetic field generation. Physica C: Superconductivity and Its Applications, 1996, 268, 334-338.	0.6	4
40	Strain Dependence of Critical Current for Nb <sub>3</sub> Al Superconducting Wire Fabricated by Restacked RHQT Process. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	4
41	Effect of Ba addition on the formation of the high-T <sub>c</sub> phase in the Bi, Pb-Sr-Ca-Cu-O system.. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1988, 35, 1003-1009.	0.1	3
42	Anomaly in J <sub>c</sub> -B hysteresis for Bi-2212/Ag composite tape in high field. Applied Superconductivity, 1995, 3, 535-541.	0.5	3
43	Superconducting magnet system containing Bi-2212/Ag Coil Generates 21.8 T at 1.8K. Journal of Electronic Materials, 1995, 24, 1883-1886.	1.0	3
44	Three-dimensional structural analysis for crystal defects in phase-transformed Nb <sub>3</sub> Al. IEEE Transactions on Applied Superconductivity, 2015, , 1-1.	1.1	3
45	Bi-2212/Ag Superconducting Magnet for High-Field Applications. , 1998, , 1381-1384.		3
46	In-Field Evaluation of REBCO Superconducting Joint. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.1	3
47	Cryogen-free 3T-MRI system for human brain research using B-2223 high-temperature superconducting tapes. , 2012, , .		2
48	Large J <sub>c</sub> Enhancement of Bi-2212/Ag Tape by PAIR Process. , 1999, , 811-816.		2
49	The microstructure and the superconducting properties of Bi <sub>2212</sub> /Ag tapes with different Sr/Ca ratios. , 2000, , 685-687.		2
50	Development of Bi-2212 coils applying dip-coating and melt-solidification process. , 1995, , 777-780.		2
51	Novel Pb-Free Superconducting Joint Between NbTi and Nb <sub>3</sub> Sn Wires Using High-Temperature-Tolerable Superconducting Nb <sup>3</sup> Hf Intermedia. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	2
52	Formation and electrical property of a high-T <sub>c</sub> phase Bi,Pb-Sr-Ca-Cu-O superconductor.. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1989, 36, 527-532.	0.1	1
53	Preparation of the High-T <sub>c</sub> Phase in the Bi-Pb-Sr-Ca-Cu-O System. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 184, 129-133.	0.3	1
54	Designing a solenoid coil of high sensitivity for a cryogenic probe of a novel split magnet. Concepts in Magnetic Resonance Part B, 2010, 37B, 92-101.	0.3	1

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55	Performance of a novel NMR apparatus with a solenoidal tape-shaped antenna and a split-type superconducting magnet. Concepts in Magnetic Resonance Part B, 2013, 43, 79-89.	0.3	1
56	Difference of Irreversible Strain Limit in Technical RHQT Nb3Al Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	1
57	Transformation of Bi,Pb-2223 Phase From Multilayered Precursor Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	1
58	Superconducting Joints of Bi-2212/Ag Tapes Prepared by Dip-Coating Method. , 1998, , 837-840.		1
59	Bi-2212 tapes and coils fabricated using Ag-Mg-Zr substrates. , 1996, , 937-940.		1
60	Anomalous current distribution in Bi-2212/Ag composite superconducting tape caused by Hall effect. Cryogenics, 1996, 36, 351-357.	0.9	0
61	The Control of Microstructures for High- $J_c$ Bi-2212/Ag Tapes. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2002, 66, 242-246.	0.2	0
62	Microstructures of MgB <sub>2</sub> Thin Films Deposited on YSZ/Hastelloy Substrate. Materia Japan, 2004, 43, 1013-1013.	0.1	0
63	Anomaly in Jc-B Hysteresis for Bi-2212/Ag Tape around 19T. , 1995, , 765-768.		0
64	Synthesis and Characterization of YNi <sub>2</sub> B <sub>2</sub> C Thin Films. , 1995, , 971-974.		0
65	Improvements in Coil Performance of DIP-Coated Bi-2212 Tapes. , 1997, , 981-984.		0
66	Development of Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1</sub> Cu <sub>2</sub> O <sub>x</sub> /Ag Tapes and Coils. , 1998, , 741-746.		0
67	Effect of Starting Materials on Microstructure and Property of Bi-2212/Ag Tapes. , 1998, , 767-770.		0
68	Bi-2212/Ag Multifilamentary Tapes, Wires and Coils for High Magnetic Field Applications. , 1999, , 851-854.		0
69	Effect of Ag substrate on the microstructure and Jc of Bi-2212/Ag tapes prepared by a dip-coating method. , 1999, , 935-938.		0