

Fumitake Kametani

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,444
citations

430874

18
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotropic round-wire multifilament cuprate superconductor for generation of magnetic fields above 30 T. Nature Materials, 2014, 13, 375-381.	27.5	296
2	High intergrain critical current density in fine-grain (Ba _{0.6} K _{0.4})Fe ₂ As ₂ wires and bulks. Nature Materials, 2012, 11, 682-685.	27.5	220
3	Weak-link behavior of grain boundaries in superconducting Ba(Fe _{1-x} Co _x) ₂ As ₂ bicrystals. Applied Physics Letters, 2009, 95, .	3.3	163
4	Intergrain current flow in a randomly oriented polycrystalline SmFeAsO _{0.85} oxypnictide. Applied Physics Letters, 2009, 95, .	3.3	73
5	Artificially engineered superlattices of pnictide superconductors. Nature Materials, 2013, 12, 392-396.	27.5	70
6	Structural Evolution Induced by Interfacial Lattice Mismatch in Self-Organized YBa ₂ Cu ₃ O _{7-x} Nanocomposite Film. ACS Nano, 2017, 11, 1780-1788.	14.6	63
7	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor LaO _{0.89} F _{0.11} FeAs. Applied Physics Letters, 2008, 92, 252501.	3.3	59
8	High-Performance Bi-2212 Round Wires Made With Recent Powders. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	49
9	A new approach for improving global critical current density in Fe(Se _{0.5} Te _{0.5}) polycrystalline materials. Superconductor Science and Technology, 2012, 25, 115018.	3.5	48
10	Combined microstructural and magneto-optical study of current flow in polycrystalline forms of Nd and Sm Fe-oxypnictides. Superconductor Science and Technology, 2009, 22, 015010.	3.5	45
11	Void and phase evolution during the processing of Bi-2212 superconducting wires monitored by combined fast synchrotron micro-tomography and x-ray diffraction. Superconductor Science and Technology, 2011, 24, 115004.	3.5	43
12	Beneficial influence of Hf and Zr additions to Nb ₄ at%Ta on the vortex pinning of Nb ₃ Sn with and without an O source. Superconductor Science and Technology, 2019, 32, 044006.	3.5	42
13	On the through-thickness critical current density of an YBa ₂ Cu ₃ O _{7-x} film containing a high density of insulating, vortex-pinning nanoprecipitates. Applied Physics Letters, 2007, 90, 252502.	3.3	35
14	Broad temperature range study of <i>J_c</i> and <i>H_{irr}</i> anisotropy in YBa ₂ Cu ₃ O _x thin films containing either Y ₂ O ₃ nanoparticles or stacking faults. Applied Physics Letters, 2015, 106, .	3.3	28
15	Heat treatment control of Ag-Bi ₂ Sr ₂ CaCu ₂ O _x multifilamentary round wire: investigation of time in the melt. Superconductor Science and Technology, 2011, 24, 115009.	3.5	26
16	<i>J_c</i> (4.2 K, 31.2 T) beyond 1 kA/mm ² of a ~3.2 μm thick, 20 mol% Zr-added MOCVD REBCO coated conductor. Scientific Reports, 2017, 7, 6853.	3.3	24
17	Effects of Filament Size on Critical Current Density in Overpressure Processed Bi-2212 Round Wire. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	22
18	High critical current density over 1 MA cm ⁻² at 13 T in BaZrO ₃ incorporated Ba(Fe,Co) ₂ As ₂ thin film. Superconductor Science and Technology, 2017, 30, 085006.	3.5	20

#	ARTICLE	IF	CITATIONS
19	An Experimental and Analytical Study of Periodic and Aperiodic Fluctuations in the Critical Current of Long Coated Conductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	17
20	Pinning, thermally activated depinning and their importance for tuning the nanoprecipitate size and density in high J _c YBa ₂ Cu ₃ O _{7-x} films. Physica C: Superconductivity and Its Applications, 2009, 469, 2021-2028.	1.2	16
21	Origin of the enhanced Nb ₃ Sn performance by combined Hf and Ta doping. Scientific Reports, 2021, 11, 17845.	3.3	15
22	Improvement of Strain Tolerance in RE-123 Coated Conductors by Controlling the Yielding Behavior of Hastelloy C-276 Substrates. IEEE Transactions on Applied Superconductivity, 2007, 17, 3040-3043.	1.7	12
23	Study of grain boundary transparency in (Yb _{1-x} Ca _x)Ba ₂ Cu ₃ O ₇ bicrystal thin films over a wide temperature, field, and field orientation range. Physical Review B, 2015, 91, .	3.2	12
24	Effects of Wire Diameter and Filament Size on the Processing Window of Bi-2212 Round Wire. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	11
25	Development and characterization of Nb ₃ Sn/Al ₂ O ₃ superconducting multilayers for particle accelerators. Scientific Reports, 2021, 11, 7770.	3.3	10
26	Chemically degraded grain boundaries in fine-grain Ba _{0.6} K _{0.4} Fe ₂ As ₂ polycrystalline bulks. Applied Physics Express, 2020, 13, 113002.	2.4	9
27	Effect of heat treatments on superconducting properties and connectivity in K-doped BaFe ₂ As ₂ . Scientific Reports, 2021, 11, 3143.	3.3	6
28	Conundrum of strongly coupled supercurrent flow in both under- and overdoped Bi-2212 round wires. Physical Review Materials, 2021, 5, .	2.4	5
29	Visualization of the grain structure in the filament cross sections of uniaxially textured high J _c Bi-2223 tapes. Applied Physics Express, 2019, 12, 093002.	2.4	3
30	Relationship between Current Transport Properties and the Microstructure in a Random Polycrystalline Fe-Oxypnictide Bulk. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 444-452.	0.4	2
31	Investigation of Precipitation and Segregation of Secondary Phase Byproducts in Intermetallic Superconducting Materials. Microscopy and Microanalysis, 2019, 25, 2246-2247.	0.4	0