Kaname Matsumoto

List of Publications by Year
in descending order

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111	2,431	236925	233421
papers	citations	25	45
		h-index	g-index

114	114	114	971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial pinning center technology to enhance vortex pinning in YBCO coated conductors. Superconductor Science and Technology, 2010, 23, 014001.	3.5	289
2	Ultra-high flux pinning properties of BaMO₃-doped YBa₂Cu₃O_{7â^'x}thin films (M = Zr, Sn). Superconductor Science and Technology, 2008, 21, 032002.	3.5	237
3	Critical Current Control in YBa2Cu3O7-Î´Films Using Artificial Pinning Centers. Japanese Journal of Applied Physics, 2005, 44, L246-L248.	1.5	116
4	High-temperature-superconductor coated conductors: technical progress in Japan. Superconductor Science and Technology, 2000, 13, 68-81.	3.5	100
5	Microstructures and critical current densities of YBCO films containing structure-controlled BaZrO₃nanorods. Superconductor Science and Technology, 2007, 20, 1144-1150.	3.5	88
6	J_cimprovement by double artificial pinning centers of BaSnO₃nanorods and Y₂O₃nanoparticles in YBa₂Cu₃O₇coated conductors. Superconductor Science and Technology, 2013, 26, 075019.	3.5	79
7	Critical Current Density Enhancement around a Matching Field in ErBa2Cu3O7-Î´Films with BaZrO3Nano-Rods. Japanese Journal of Applied Physics, 2005, 44, L952-L954.	1.5	78
8	Structural Evolution Induced by Interfacial Lattice Mismatch in Self-Organized YBa₂Cu₃O_{7â^'Î´} Nanocomposite Film. ACS Nano, 2017, 11, 1780-1788.	14.6	63
9	High-Critical-Current-Density Epitaxial Films of SmBa2Cu3O7-xin High Fields. Japanese Journal of Applied Physics, 2005, 44, L129-L132.	1.5	55
10	EnhancedJcproperties in superconducting NbTi composites by introducing Nb artificial pins with a layered structure. Applied Physics Letters, 1994, 64, 115-117.	3.3	51
11	High-Critical-Current-Density SmBa2Cu3O7-xFilms Induced by Surface Nanoparticle. Japanese Journal of Applied Physics, 2005, 44, L546-L548.	1.5	51
12	High critical current density YBa2Cu3O7âˆ'Î´ tapes prepared by the surface-oxidation epitaxy method. Physica C: Superconductivity and Its Applications, 2000, 330, 150-154.	1.2	49
13	Flux pinning properties and microstructure of SmBa2Cu3Oy thin films with systematically controlled BaZrO3 nanorods. Journal of Applied Physics, 2010, 108, 093905.	2.5	45
14	High pinning performance of YBa₂Cu₃O_{7â^'x}films added with Y₂O₃nanoparticulate defects. Superconductor Science and Technology, 2015, 28, 024002.	3.5	40
15	Superconductive REBCO Thin Films and Their Nanocomposites: The Role of Rare-Earth Oxides in Promoting Sustainable Energy. Frontiers in Physics, 2019, 7, .	2.1	40
16	High critical current density YBa2Cu3O7âˆ'Î´ films on surface-oxidized metallic substrates. Physica C: Superconductivity and Its Applications, 2000, 335, 39-43.	1.2	39
17	Influence of matching field on critical current density and irreversibility temperature in YBa2Cu3O7 films with BaMO3 (Mâ€‰=â€‰Zr, Sn, Hf) nanorods. Applied Physics Letters, 2016, 108, .	3.3	39
18	Feâ€“Teâ€“Se epitaxial thin films with enhanced superconducting properties. Superconductor Science and Technology, 2012, 25, 084021.	3.5	36

#	Article	IF	Citations
19	Dislocation Density and Critical Current Density of Sm1+xBa2-xCu3OyFilms Prepared by Various Fabrication Processes. Japanese Journal of Applied Physics, 2006, 45, L701-L704.	1.5	30
20	The crossover from the vortex glass to the Bose glass in nanostructured YBa2Cu3O7â˜'x films. Applied Physics Letters, 2008, 92, 182511.	3.3	30
21	Development of thermoelectric module based on dense Ca3Co4O9 and Zn0.98Al0.02O legs. Metals and Materials International, 2014, 20, 389-397.	3.4	30
22	Flux Pinning Properties at Low Temperatures in $ hbox{BaHfO}_{3}$ Doped $hbox{SmBa}_{2}hbox{Cu}_{3} hbox{O}_{y}$ Films. IEEE Transactions on Applied Superconductivity, 2013, 23, 8001104-8001104.	1.7	28
23	Thermoelectric Property in Orthorhombic-Domained SnSe Film. ACS Applied Materials & Interfaces, 2019, 11, 27057-27063.	8.0	28
24	c-axis correlated pinning behavior near the irreversibility fields. Applied Physics Letters, 2007, 90, 122501.	3.3	26
25	Irreversibility fields and critical current densities in strongly pinned YBa2Cu3O7-x films with BaSnO3 nanorods: The influence of segmented BaSnO3 nanorods. Journal of Applied Physics, 2014, 116, .	2.5	25
26	Isotropic enhancement in the critical current density of YBCO thin films incorporating nanoscale Y2BaCuO5 inclusions. Journal of Applied Physics, 2017, 122, .	2.5	25
27	Flux pinning properties and microstructures of a SmBa2Cu3Oyfilm with high number density of BaHfO3nanorods deposited by using low-temperature growth technique. Japanese Journal of Applied Physics, 2014, 53, 090304.	1.5	24
28	Enhancement of Critical Current Density in ErBa2Cu3OyThin Films by Post-Annealing. Japanese Journal of Applied Physics, 2004, 43, L1223-L1225.	1.5	22
29	Control of the glass-liquid transition temperature in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2009, 79, .	3.2	22
30	Flux pinning landscape up to 25 T in SmBa₂Cu₃O_yfilms with BaHfO₃nanorods fabricated by low-temperature growth technique. Superconductor Science and Technology, 2017, 30, 104004.	3.5	22
31	Tailoring the vortex pinning strength of YBCO thin films by systematic incorporation of hybrid artificial pinning centers. Superconductor Science and Technology, 2015, 28, 114004.	3.5	21
32	Pin potential effect on vortex pinning in YBa2Cu3O7-Î´ films containing nanorods: Pin size effect and mixed pinning. Applied Physics Letters, 2017, 110, .	3.3	21
33	Reduction of Surface Resistance of ErBa2Cu3O7-Î´Films by BaZrO3Nano-Particle Inclusion. Japanese Journal of Applied Physics, 2004, 43, L1623-L1625.	1.5	19
34	Elastic strain evolution in nanocomposite structure of YBa₂Cu₃O₇+BaZrO₃superconducting films. Japanese Journal of Applied Physics, 2014, 53, 083101.	1.5	19
35	in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi	3.2	18
36	Geometric and compositional factors on critical current density in YBa₂Cu₃O_{7â˜'Î´} films containing nanorods. Superconductor Science and Technology, 2018, 31, 065012.	3.5	18

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37	Evaluation of vortex pinning across low angle grain boundary in YBa₂Cu₃O₇ film. Applied Physics Letters, 2012, 101, 112604.	3.3	17
38	Effective Disappearance of the Meissner Signal in the Cuprate Superconductor YBa₂Cu₄O₈ under Uniaxial Strain. Journal of the Physical Society of Japan, 2014, 83, 023705.	1.6	17
39	Delocalization of vortex in SmBa2Cu3O7âÎ´ superconducting films with BaHfO3 nano-rods. Journal of Applied Physics, 2016, 120, .	2.5	17
40	Long length oxide template for YBCO coated conductor prepared by surface-oxidation epitaxy method. Physica C: Superconductivity and Its Applications, 2001, 357-360, 914-922.	1.2	16
41	Effect of BaHfO3introduction on the transport current at the grain boundaries in SmBa2Cu3Oyfilms. Applied Physics Express, 2015, 8, 033101.	2.4	15
42	Controlling the Critical Current Anisotropy of YBCO Superconducting Films by Incorporating Hybrid Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	15
43	Uniaxial strain effects on the superconducting transition in Re-doped Hg-1223 cuprate superconductors. Physical Review B, 2017, 95, .	3.2	15
44	In-plane alignment and superconducting properties in high-Jc Sm1+xBa2â^'xCu3O6+Î´ thin films. Physica C: Superconductivity and Its Applications, 2005, 426-431, 985-989.	1.2	14
45	MoirÃ© Fringe Analysis of BaZrO3Nanorods in ErBa2Cu3O7-Î´Films. Japanese Journal of Applied Physics, 2007, 46, 708-711.	1.5	14
46	Hybrid artificial pinning centers of elongated-nanorods and segmented-nanorods in YBa₂Cu₃O₇films. Superconductor Science and Technology, 2016, 29, 105010.	3.5	14
47	Surface-oxidation epitaxy method to control critical current of YBa2Cu3O7â^'Î´ coated conductors. Physica C: Superconductivity and Its Applications, 2002, 378-381, 922-926.	1.2	13
48	Anisotropic strain dependence of oxygen vacancy formation in YBa₂Cu₃O_{7â^'Î´}: first principle study. Superconductor Science and Technology, 2014, 27, 115013.	3.5	13
49	Proximity coupling effect in NbTi fineâ€multifilamentary superconducting composites. Applied Physics Letters, 1990, 57, 816-818.	3.3	12
50	Addition of low-Tc nanoparticles dispersions to enhance flux pinning of Sm1+xBa2â^'xCu3Oy films. Physica C: Superconductivity and Its Applications, 2006, 445-448, 643-647.	1.2	12
51	Irreversibility Fields and Critical Current Densities in Strongly Pinned YBa₂Cu₃O_{7-x} Films With Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	12
52	Possibility of High Deposition Rate in SmBa2Cu3OyFilms Prepared Using the Vaporâ€“Liquidâ€“Solid Growth Mode. Japanese Journal of Applied Physics, 2006, 45, 758-760.	1.5	11
53	Transmission Electron Microscopy Analysis of Nanorods in BaSnO3-Doped ErBa2Cu3O7-Î´Films. Japanese Journal of Applied Physics, 2008, 47, 899-903.	1.5	11
54	Uniaxial Strain Effects on Cuprate Superconductor YBa2Cu4O8. Journal of the Physical Society of Japan, 2012, 81, 113709.	1.6	11

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55	Influence of strain and composition on Tc in FeSe1â^'xTex films. Journal of Applied Physics, 2014, 116, 213906.	2.5	11
56	Strongly enhanced irreversibility field and flux pinning force density in SmBa₂Cu₃O_y-coated conductors with well-aligned BaHfO₃nanorods. Applied Physics Express, 2017, 10, 103101.	2.4	11
57	Development of Al₂O₃-ZnO/Ca₃Co₄O₉ Module for Thermoelectric Power Generation. Materials Research Society Symposia Proceedings, 2009, 1166, 23.	0.1	10
58	Variation of c-axis correlation on vortex pinning by ab-plane non-superconducting layers in YBa2Cu3O7 films. Journal of Applied Physics, 2013, 114, 073903.	2.5	10
59	Systematic Variation of Hybrid APCs Into YBCO Thin Films for Improving the Vortex Pinning Properties. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	10
60	Effect of Simultaneous Addition of 1D and 3D Artificial Pinning Centers in Hybrid YBa₂Cu₃O_{7â€“x} Multilayers. Science of Advanced Materials, 2017, 9, 1042-1050.	0.7	10
61	Characterization of YBa2Cu3O7â^'Î´ films grown on NiO buffer layer by liquid-phase epitaxy process. Physica C: Superconductivity and Its Applications, 2001, 357-360, 1042-1045.	1.2	9
62	BaMO₃(M=Zr, Hf, Sn) material dependence ofT_creduction in BaMO₃-doped SmBa₂Cu₃O_y, films. Journal of Physics: Conference Series, 2014, 507, 022043.	0.4	9
63	Uniaxial Strain Effects on Superconducting Transition in Y_{0.98}Ca_{0.02}Ba₂Cu₄O₈. Journal of the Physical Society of Japan, 2016, 85, 024711.	1.6	9
64	Artificial pinning centers in (Y, RE)-Ba-Cu-O superconductors: recent progress and future perspective. Superconductor Science and Technology, 2020, 33, 040301.	3.5	9
65	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	2.4	9
66	Flux Pinning Characteristics of Artificial Pinning Centers With Different Dimension. IEEE Transactions on Applied Superconductivity, 2009, 19, 3248-3253.	1.7	8
67	Strongc-axis correlated pinning and hybrid pinning in YBa2Cu3O7â^'Î´films containing BaHfO3nanorods and stacking faults. Superconductor Science and Technology, 2017, 30, 074009.	3.5	8
68	C-axis correlated pinning mechanism in vortex liquid and solid phases for Sm123 film with well-aligned BaHfO3nanorods. Superconductor Science and Technology, 2017, 30, 114005.	3.5	8
69	Temperature dependence of critical currents in REBCO thin films with artificial pinning centers. Superconductor Science and Technology, 2017, 30, 104006.	3.5	7
70	Thermoelectric Property of n-Type Bismuth-Doped SnSe Film: Influence of Characteristic Film Defect. ACS Applied Energy Materials, 2021, 4, 9563-9571.	5.1	7
71	Anisotropy and Lorentz-Force Dependences of Critical Current Density inC-Axis-Oriented YBa2Cu3O7-Î´Thin Film. Japanese Journal of Applied Physics, 2005, 44, L111-L113.	1.5	6
72	c-Axis-Correlated Vortex Pinning Center Induced by Dilute Co-doping in Pulsed-Laser-Deposition-ErBa2Cu3OyFilms. Japanese Journal of Applied Physics, 2006, 45, L617-L620.	1.5	6

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73	Flux Pinning Characteristics of ${m Sm}_{1+x}{m Ba}_{2-x}{m Cu}_{3}{m O}_{y}$ Films With the Additional c-Axis Correlated Pinning Centers. IEEE Transactions on Applied Superconductivity, 2009, 19, 3507-3510.	1.7	6
74	Flux Pinning Properties and Microstructure in ${m Sm}_{1+x}{m Ba}_{2-x}{m Cu}_{3}{m O}_{y}$ Films With ${m BaZrO}_{3}$ Nanorods Fabricated by Vapor-Liquid-Solid Growth Technique. IEEE Transactions on Applied Superconductivity, 2009, 19, 3168-3171.	1.7	6
75	Combined effect of nanorod and stacking fault for improving nanorod interface in YBa₂Cu₃O_{7â^'Î´} nanocomposite films. Superconductor Science and Technology, 2020, 33, 115001.	3.5	6
76	Fabrication of seed/buffer layers on metallic substrates for YBCO coated conductors. Physica C: Superconductivity and Its Applications, 2001, 357-360, 979-982.	1.2	5
77	Effect ofc-Axis-Correlated Disorders on the Vortex Diagram of the Pinning State. Applied Physics Express, 0, 1, 031703.	2.4	5
78	Magnetic Field of BG-VG Transition Depending on the Nanorods Shape in <inline-formula> <tex-math notation="TeX">$hbox{BaHfO}_{3}$</tex-math></inline-formula>-Doped <inline-formula> <tex-math notation="TeX">$hbox{SmBa}_{2}hbox{Cu}_{3}hbox{O}_{y}$</tex-math></inline-formula> Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	5
79	Observation of inhomogeneous depinning in YBa2Cu3O7 composite multilayers. Superconductor Science and Technology, 2019, 32, 085001.	3.5	5
80	Nanostructures and flux pinning properties in YBa2Cu3O7â^'y thin films with double perovskite Ba2LuNbO6 nanorods. Journal of Applied Physics, 2021, 129, 195301.	2.5	5
81	Simultaneous achievement of high J _c and suppressed J _c anisotropy by hybrid pinning in YBa₂Cu₃O₇ three-phase-nanocomposite film. Superconductor Science and Technology, 2020, 33, 105003.	3.5	5
82	Effects of Growth Conditions on One-dimensional Nanorod Growth in REBa2Cu3O7-Î´ Films. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 535-542.	0.1	5
83	Characteristics of multifilamentary wires for a.c. use developed by the bronze process using diffusion barrier techniques. Superconductor Science and Technology, 1996, 9, 218-226.	3.5	4
84	Comparative study of carrier concentration and reciprocal space mapping in SmBa2Cu3Oy thin films with high critical current density. Physica C: Superconductivity and Its Applications, 2006, 445-448, 689-693.	1.2	4
85	Enhanced Critical Current under a Magnetic Field in Sm1+xB2-xCu3OyThick Films Prepared Using Low-temperature Growth Technique. Japanese Journal of Applied Physics, 2007, 46, L807-L809.	1.5	4
86	Improved Flux Pinning in Nanostructured REBCO Films Controlling the APC Growth Mechanism. IEEE Transactions on Applied Superconductivity, 2009, 19, 3262-3265.	1.7	4
87	Improvement of critical current densities in SmBa2Cu3Oy, films with BaHfO3nano-rods using low temperature growth technique. Journal of Physics: Conference Series, 2014, 507, 022021.	0.4	4
88	Flux-pinning Properties and Microstructure in SmBa2Cu3Oy Thin Films with BaZrO3 Nanorods. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 549-557.	0.1	4
89	Fabrication and critical current density analysis of YBa2Cu3O7+(BaSnO3)â€²/YBa2Cu3O7+(BaSnO3)â€³ multilayer films. Superconductor Science and Technology, 2016, 29, 085002.	3.5	3
90	Overcoming optimization constraint for J _c by hybrid pinning in YBa₂Cu₃O₇ films containing nanorods. Japanese Journal of Applied Physics, 2021, 60, 023001.	1.5	3

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91	Self-Organized Nanocomposite Structure Controlled by Elemental Site Occupancy to Improve Vortex Pinning in YBa₂Cu₃O₇ Superconducting Films. ACS Applied Electronic Materials, 2022, 4, 3018-3026.	4.3	3
92	High critical current density and its magnetic fields dependence in (Sm,Eu,Gd)Ba2Cu3Oy films by using multiple targets. Physica C: Superconductivity and Its Applications, 2013, 484, 130-133.	1.2	2
93	Deposition-Temperature Dependence of Vortex Pinning Property in YBa₂Cu₃O₇+BaHfO₃ Films. Materials Transactions, 2020, 61, 449-454.	1.2	2
94	Interfaces in REBCO-Based Nanocomposite Thin Films and their Contribution to Vortex Pinning. , 2021, , 205-221.		2
95	Oxygen-Annealing Effects on Superconducting Properties of ErBa2Cu3Oy Thin Films Fabricated by Pulsed Laser Deposition Method. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 748-755.	0.4	1
96	Introduction of Artificial Pinning Centers to Improve Jc Properties of REBa2Cu3Oy Films under Magnetic Fields. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 409-415.	0.4	1
97	PM-07 Structure Characterization of Bi-Doped SnSe Thin Films Fabricated by Pulse Laser Deposition. Microscopy (Oxford, England), 2019, 68, i38-i38.	1.5	1
98	Angular vortex phase diagram in YBa₂Cu₃O₇ films with c-axis correlated pinning centers. Superconductor Science and Technology, 2021, 34, 085015.	3.5	1
99	Self-organized formation of a-few-nanometer sized nanocolumns in chalcogenide-oxide nanocomposite film. Thin Solid Films, 2021, 733, 138802.	1.8	1
100	Deposition-Temperature Dependence of Vortex Pinning Property in YBa₂Cu₃O₇+BaHfO₃ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.4	1
101	Perovskite Structures in the Formation of Nano-rods in REBa2Cu3O7-.DELTA. Films Self-organization to perovskite structures. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 25-31.	0.1	1
102	Superconducting Properties and Microstructures of BaHfO3-doped SmBa2Cu3Oy Films Fabricated using a Low-temperature Growth Technique. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (S		1
103	Fabrication of Fe(Te,Se) films added with oxide or chalcogenide: Influence of added material on phase formation and superconducting properties. Journal of Applied Physics, 2022, 131, 103901.	2.5	1
104	Microstructures of High-${m T}_{m C}$ Superconducting Films Introduced Zero-Dimensional and One-Dimensional Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2007, 17, 3701-3704.	1.7	0
105	Growth of ${m BaSnO}_{3}$ Doped ${m ErBa}_{2}{m Cu}_{3}{m O}_{7-delta}$ Thin Films on MgO Substrates for High ${mmb J}_{f C}$ Applications. IEEE Transactions on Applied Superconductivity, 2009, 19, 3416-3419.	1.7	0
106	Effect of ${m BaZrO}_{3}$ Addition and Film Growth on Superconducting Properties of $({m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Superconductivity, 2009, 19, 3144-3147.	1.7	0
107	High Performance Superconducting Materials —Progress of Microstructure Control. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 395-395.	0.4	0
108	Control of Critical Current Density Properties of Superconducting Films by Control of Their Microstructures. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 420-427.	0.4	0

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109	Development of High-performance YBCO Tapes Containing Hybrid APCs. TEION KOGAKU (Journal of) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
110	Uniaxial Compression Effects on Cuprate Superconductors. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2019, 29, 262-271.	0.0	0
111	Aligned Self-Organization Induced by Epitaxial Stress and Shear Deformation in Jahnâ€“Teller Spinel ZnMnGaO4. Journal of Physical Chemistry C, 0, , .	3.1	0