

Kaname Matsumoto

List of Publications by Year in descending order

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114
times ranked

971
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Self-Organized Nanocomposite Structure Controlled by Elemental Site Occupancy to Improve Vortex Pinning in YBa ₂ Cu ₃ O ₇ Superconducting Films. ACS Applied Electronic Materials, 2022, 4, 3018-3026.	4.3	3
3	Interfaces in REBCO-Based Nanocomposite Thin Films and their Contribution to Vortex Pinning. , 2021, , 205-221.		2
4	Overcoming optimization constraint for J _c by hybrid pinning in YBa ₂ Cu ₃ O ₇ films containing nanorods. Japanese Journal of Applied Physics, 2021, 60, 023001.	1.5	3
5	Nanostructures and flux pinning properties in YBa ₂ Cu ₃ O ₇ thin films with double perovskite Ba ₂ LuNbO ₆ nanorods. Journal of Applied Physics, 2021, 129, 195301.	2.5	5
6	Angular vortex phase diagram in YBa ₂ Cu ₃ O ₇ films with c-axis correlated pinning centers. Superconductor Science and Technology, 2021, 34, 085015.	3.5	1
7	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
8	Self-organized formation of a-few-nanometer sized nanocolumns in chalcogenide-oxide nanocomposite film. Thin Solid Films, 2021, 733, 138802.	1.8	1
9	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
10	Deposition-Temperature Dependence of Vortex Pinning Property in YBa ₂ Cu ₃ O ₇ +BaHfO ₃ Films. Materials Transactions, 2020, 61, 449-454.	1.2	2
11	Simultaneous achievement of high J _c and suppressed J _c anisotropy by hybrid pinning in YBa ₂ Cu ₃ O ₇ three-phase-nanocomposite film. Superconductor Science and Technology, 2020, 33, 105003.	3.5	5
12	Combined effect of nanorod and stacking fault for improving nanorod interface in YBa ₂ Cu ₃ O ₇ nanocomposite films. Superconductor Science and Technology, 2020, 33, 115001.	3.5	6
13	Thermoelectric Property in Orthorhombic-Domained SnSe Film. ACS Applied Materials & Interfaces, 2019, 11, 27057-27063.	8.0	28
14	Observation of inhomogeneous depinning in YBa ₂ Cu ₃ O ₇ composite multilayers. Superconductor Science and Technology, 2019, 32, 085001.	3.5	5
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	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
17	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	2.4	9
18	Deposition-Temperature Dependence of Vortex Pinning Property in YBa ₂ Cu ₃ O ₇ +BaHfO ₃ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.4	1

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19	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
20	Geometric and compositional factors on critical current density in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films containing nanorods. Superconductor Science and Technology, 2018, 31, 065012.	3.5	18
21	Structural Evolution Induced by Interfacial Lattice Mismatch in Self-Organized $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Nanocomposite Film. ACS Nano, 2017, 11, 1780-1788.	14.6	63
22	Pin potential effect on vortex pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films containing nanorods: Pin size effect and mixed pinning. Applied Physics Letters, 2017, 110, .	3.3	21
23	Strong c-axis correlated pinning and hybrid pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films containing BaHfO_3 nanorods and stacking faults. Superconductor Science and Technology, 2017, 30, 074009.	3.5	8
24	Strongly enhanced irreversibility field and flux pinning force density in $\text{SmBa}_2\text{Cu}_3\text{O}_{7-x}$ -coated conductors with well-aligned BaHfO_3 nanorods. Applied Physics Express, 2017, 10, 103101.	2.4	11
25	Flux pinning landscape up to 25 T in $\text{SmBa}_2\text{Cu}_3\text{O}_{7-x}$ films with BaHfO_3 nanorods fabricated by low-temperature growth technique. Superconductor Science and Technology, 2017, 30, 104004.	3.5	22
26	Temperature dependence of critical currents in REBCO thin films with artificial pinning centers. Superconductor Science and Technology, 2017, 30, 104006.	3.5	7
27	Isotropic enhancement in the critical current density of YBCO thin films incorporating nanoscale Y_2BaCuO_5 inclusions. Journal of Applied Physics, 2017, 122, .	2.5	25
28	Uniaxial strain effects on the superconducting transition in Re-doped Hg-1223 cuprate superconductors. Physical Review B, 2017, 95, .	3.2	15
29	C-axis correlated pinning mechanism in vortex liquid and solid phases for $\text{Sm}123$ film with well-aligned BaHfO_3 nanorods. Superconductor Science and Technology, 2017, 30, 114005.	3.5	8
30	Effect of Simultaneous Addition of 1D and 3D Artificial Pinning Centers in Hybrid $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Multilayers. Science of Advanced Materials, 2017, 9, 1042-1050.	0.7	10
31	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
32	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
33	Delocalization of vortex in $\text{SmBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting films with BaHfO_3 nano-rods. Journal of Applied Physics, 2016, 120, .	2.5	17
34	Fabrication and critical current density analysis of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}(\text{BaSnO}_3)_2/\text{YBa}_2\text{Cu}_3\text{O}_{7-x}(\text{BaSnO}_3)_3$ multilayer films. Superconductor Science and Technology, 2016, 29, 085002.	3.5	3
35	Influence of matching field on critical current density and irreversibility temperature in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films with BaMO_3 ($\text{M} = \text{Zr, Sn, Hf}$) nanorods. Applied Physics Letters, 2016, 108, .	3.3	39
36	Hybrid artificial pinning centers of elongated-nanorods and segmented-nanorods in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Superconductor Science and Technology, 2016, 29, 105010.	3.5	14

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37	Uniaxial Strain Effects on Superconducting Transition in $\text{Y}_{0.98}\text{Ca}_{0.02}\text{Ba}_2\text{Cu}_4\text{O}_8$. Journal of the Physical Society of Japan, 2016, 85, 024711.	1.6	9
38	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
39	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
40	High pinning performance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films added with Y_2O_3 nanoparticulate defects. Superconductor Science and Technology, 2015, 28, 024002.	3.5	40
41	Effect of BaHfO_3 introduction on the transport current at the grain boundaries in $\text{SmBa}_2\text{Cu}_3\text{O}_y$ films. Applied Physics Express, 2015, 8, 033101.	2.4	15
42	Irreversibility Fields and Critical Current Densities in Strongly Pinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films With Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	12
43	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
44	Magnetic Field of BG-VG Transition Depending on the Nanorods Shape in BaHfO_3 -Doped $\text{SmBa}_2\text{Cu}_3\text{O}_y$ Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	5
45	Influence of strain and composition on T_c in FeSe_1Te_x films. Journal of Applied Physics, 2014, 116, 213906.	2.5	11
46	BaMO_3 (M=Zr, Hf, Sn) material dependence of T_c reduction in BaMO_3 -doped $\text{SmBa}_2\text{Cu}_3\text{O}_y$ films. Journal of Physics: Conference Series, 2014, 507, 022043.	0.4	9
47	Irreversibility fields and critical current densities in strongly pinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films with BaSnO_3 nanorods: The influence of segmented BaSnO_3 nanorods. Journal of Applied Physics, 2014, 116, .	2.5	25
48	Flux pinning properties and microstructures of a $\text{SmBa}_2\text{Cu}_3\text{O}_y$ film with high number density of BaHfO_3 nanorods deposited by using low-temperature growth technique. Japanese Journal of Applied Physics, 2014, 53, 090304.	1.5	24
49	Elastic strain evolution in nanocomposite structure of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x} + \text{BaZrO}_3$ superconducting films. Japanese Journal of Applied Physics, 2014, 53, 083101.	1.5	19
50	Effective Disappearance of the Meissner Signal in the Cuprate Superconductor $\text{YBa}_2\text{Cu}_4\text{O}_8$ under Uniaxial Strain. Journal of the Physical Society of Japan, 2014, 83, 023705.	1.6	17
51	Anisotropic strain dependence of oxygen vacancy formation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$: first principle study. Superconductor Science and Technology, 2014, 27, 115013.	3.5	13
52	Development of thermoelectric module based on dense $\text{Ca}_3\text{Co}_4\text{O}_9$ and $\text{Zn}_{0.98}\text{Al}_{0.02}\text{O}$ legs. Metals and Materials International, 2014, 20, 389-397.	3.4	30
53	Improvement of critical current densities in $\text{SmBa}_2\text{Cu}_3\text{O}_y$ films with BaHfO_3 nano-rods using low temperature growth technique. Journal of Physics: Conference Series, 2014, 507, 022021.	0.4	4
54	Development of High-performance YBCO Tapes Containing Hybrid APCs. TEION KOGAKU (Journal of) Tj ETQq0 0 0 r gBT /Overlock 10 Tf	0.1	0

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55	Superconducting Properties and Microstructures of BaHfO ₃ -doped SmBa ₂ Cu ₃ O _y Films Fabricated using a Low-temperature Growth Technique. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50		
56	Improvement by double artificial pinning centers of BaSnO ₃ nanorods and Y ₂ O ₃ nanoparticles in YBa ₂ Cu ₃ O ₇ -coated conductors. Superconductor Science and Technology, 2013, 26, 075019.	3.5	79
57	Flux Pinning Properties at Low Temperatures in BaHfO_3 Doped $\text{SmBa}_2\text{Cu}_3\text{O}_y$ Films. IEEE Transactions on Applied Superconductivity, 2013, 23, 8001104-8001104.	1.7	28
58	High critical current density and its magnetic fields dependence in (Sm,Eu,Gd)Ba ₂ Cu ₃ O _y films by using multiple targets. Physica C: Superconductivity and Its Applications, 2013, 484, 130-133.	1.2	2
59	Variation of c-axis correlation on vortex pinning by ab-plane non-superconducting layers in YBa ₂ Cu ₃ O ₇ films. Journal of Applied Physics, 2013, 114, 073903.	2.5	10
60	Uniaxial Strain Effects on Cuprate Superconductor YBa ₂ Cu ₄ O ₈ . Journal of the Physical Society of Japan, 2012, 81, 113709.	1.6	11
61	Evaluation of vortex pinning across low angle grain boundary in YBa ₂ Cu ₃ O ₇ film. Applied Physics Letters, 2012, 101, 112604.	3.3	17
62	FeTeSe epitaxial thin films with enhanced superconducting properties. Superconductor Science and Technology, 2012, 25, 084021.	3.5	36
63	Introduction of Artificial Pinning Centers to Improve J _c Properties of REBa ₂ Cu ₃ O _y Films under Magnetic Fields. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 409-415.	0.4	1
64	Flux pinning properties and microstructure of SmBa ₂ Cu ₃ O _y thin films with systematically controlled BaZrO ₃ nanorods. Journal of Applied Physics, 2010, 108, 093905.	2.5	45
65	Artificial pinning center technology to enhance vortex pinning in YBCO coated conductors. Superconductor Science and Technology, 2010, 23, 014001.	3.5	289
66	Flux Pinning Characteristics of Artificial Pinning Centers With Different Dimension. IEEE Transactions on Applied Superconductivity, 2009, 19, 3248-3253.	1.7	8
67	Improved Flux Pinning in Nanostructured REBCO Films Controlling the APC Growth Mechanism. IEEE Transactions on Applied Superconductivity, 2009, 19, 3262-3265.	1.7	4
68	Growth of BaSnO_3 Doped $\text{ErBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films on MgO Substrates for High J _c Applications. IEEE Transactions on Applied Superconductivity, 2009, 19, 3416-3419.	1.7	0
69	Development of Al ₂ O ₃ -ZnO/Ca ₃ Co ₄ O ₉ Module for Thermoelectric Power Generation. Materials Research Society Symposia Proceedings, 2009, 1166, 23.	0.1	10
70	Flux Pinning Characteristics of $\text{Sm}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_y$ Films With the Additional c-Axis Correlated Pinning Centers. IEEE Transactions on Applied Superconductivity, 2009, 19, 3507-3510.	1.7	6
71	Effect of BaZrO_3 Addition and Film Growth on Superconducting Properties of $\text{Sm}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_y$ Superconductivity, 2009, 19, 3144-3147.	1.7	0
72	Flux Pinning Properties and Microstructure in $\text{Sm}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_y$ Films With BaZrO_3 Nanorods Fabricated by Vapor-Liquid-Solid Growth Technique. IEEE Transactions on Applied Superconductivity, 2009, 19, 3168-3171.	1.7	6

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73	Control of the glass-liquid transition temperature in $YBa_2Cu_3O_{7-x}$ thin films. Physical Review B, 2009, 79, .	3.2	22
74	Flux-pinning Properties and Microstructure in SmBa ₂ Cu ₃ O _y Thin Films with BaZrO ₃ Nanorods. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 549-557.	0.1	4
75	Perovskite Structures in the Formation of Nano-rods in REBa ₂ Cu ₃ O _{7-Δ} . Films Self-organization to perovskite structures. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 25-31.	0.1	1
76	Effects of Growth Conditions on One-dimensional Nanorod Growth in REBa ₂ Cu ₃ O _{7-Δ} Films. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2009, 44, 535-542.	0.1	5
77	Ultra-high flux pinning properties of BaMO ₃ -doped YBa ₂ Cu ₃ O _{7-Δ} thin films (M = Zr, Sn). Superconductor Science and Technology, 2008, 21, 032002.	3.5	237
78	The crossover from the vortex glass to the Bose glass in nanostructured YBa ₂ Cu ₃ O _{7-Δ} films. Applied Physics Letters, 2008, 92, 182511.	3.3	30
79	Transmission Electron Microscopy Analysis of Nanorods in BaSnO ₃ -Doped ErBa ₂ Cu ₃ O _{7-Δ} Films. Japanese Journal of Applied Physics, 2008, 47, 899-903.	1.5	11
80	Tilt angle dependences of vortex structure and critical current density at low-angle grain boundaries in $YBa_2Cu_3O_{7-x}$ thin films. Applied Physics Letters, 2008, 92, 182511.	3.2	18
81	Microstructures of High- T_c Superconducting Films Introduced Zero-Dimensional and One-Dimensional Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2007, 17, 3701-3704.	1.7	0
82	Enhanced Critical Current under a Magnetic Field in Sm _{1-x} Ba _{2-x} Cu ₃ O _y Thick Films Prepared Using Low-temperature Growth Technique. Japanese Journal of Applied Physics, 2007, 46, L807-L809.	1.5	4
83	Moiré Fringe Analysis of BaZrO ₃ Nanorods in ErBa ₂ Cu ₃ O _{7-Δ} Films. Japanese Journal of Applied Physics, 2007, 46, 708-711.	1.5	14
84	c-axis correlated pinning behavior near the irreversibility fields. Applied Physics Letters, 2007, 90, 122501.	3.3	26
85	Microstructures and critical current densities of YBCO films containing structure-controlled BaZrO ₃ nanorods. Superconductor Science and Technology, 2007, 20, 1144-1150.	3.5	88
86	Addition of low-T _c nanoparticles dispersions to enhance flux pinning of Sm _{1-x} Ba _{2-x} Cu ₃ O _y films. Physica C: Superconductivity and Its Applications, 2006, 445-448, 643-647.	1.2	12
87	Comparative study of carrier concentration and reciprocal space mapping in SmBa ₂ Cu ₃ O _y thin films with high critical current density. Physica C: Superconductivity and Its Applications, 2006, 445-448, 689-693.	1.2	4
88	c-Axis-Related Vortex Pinning Center Induced by Dilute Co-doping in Pulsed-Laser-Deposition-ErBa ₂ Cu ₃ O _y Films. Japanese Journal of Applied Physics, 2006, 45, L617-L620.	1.5	6
89	Possibility of High Deposition Rate in SmBa ₂ Cu ₃ O _y Films Prepared Using the Vapor-Liquid-Solid Growth Mode. Japanese Journal of Applied Physics, 2006, 45, 758-760.	1.5	11
90	Dislocation Density and Critical Current Density of Sm _{1-x} Ba _{2-x} Cu ₃ O _y Films Prepared by Various Fabrication Processes. Japanese Journal of Applied Physics, 2006, 45, L701-L704.	1.5	30

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91	In-plane alignment and superconducting properties in high-Jc Sm _{1-x} Ba _{2x} Cu ₃ O _{6+δ} thin films. Physica C: Superconductivity and Its Applications, 2005, 426-431, 985-989.	1.2	14
92	High-Critical-Current-Density SmBa ₂ Cu ₃ O _{7-x} Films Induced by Surface Nanoparticle. Japanese Journal of Applied Physics, 2005, 44, L546-L548.	1.5	51
93	Anisotropy and Lorentz-Force Dependences of Critical Current Density in C-Axis-Oriented YBa ₂ Cu ₃ O _{7-δ} Thin Film. Japanese Journal of Applied Physics, 2005, 44, L111-L113.	1.5	6
94	Critical Current Density Enhancement around a Matching Field in ErBa ₂ Cu ₃ O _{7-δ} Films with BaZrO ₃ Nano-Rods. Japanese Journal of Applied Physics, 2005, 44, L952-L954.	1.5	78
95	Critical Current Control in YBa ₂ Cu ₃ O _{7-δ} Films Using Artificial Pinning Centers. Japanese Journal of Applied Physics, 2005, 44, L246-L248.	1.5	116
96	High-Critical-Current-Density Epitaxial Films of SmBa ₂ Cu ₃ O _{7-x} in High Fields. Japanese Journal of Applied Physics, 2005, 44, L129-L132.	1.5	55
97	Reduction of Surface Resistance of ErBa ₂ Cu ₃ O _{7-δ} Films by BaZrO ₃ Nano-Particle Inclusion. Japanese Journal of Applied Physics, 2004, 43, L1623-L1625.	1.5	19
98	Enhancement of Critical Current Density in ErBa ₂ Cu ₃ O _y Thin Films by Post-Annealing. Japanese Journal of Applied Physics, 2004, 43, L1223-L1225.	1.5	22
99	Oxygen-Annealing Effects on Superconducting Properties of ErBa ₂ Cu ₃ O _y 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
100	Surface-oxidation epitaxy method to control critical current of YBa ₂ Cu ₃ O _{7-δ} coated conductors. Physica C: Superconductivity and Its Applications, 2002, 378-381, 922-926.	1.2	13
101	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
102	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
103	Characterization of YBa ₂ Cu ₃ O _{7-δ} 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
104	High critical current density YBa ₂ Cu ₃ O _{7-δ} films on surface-oxidized metallic substrates. Physica C: Superconductivity and Its Applications, 2000, 335, 39-43.	1.2	39
105	High critical current density YBa ₂ Cu ₃ O _{7-δ} tapes prepared by the surface-oxidation epitaxy method. Physica C: Superconductivity and Its Applications, 2000, 330, 150-154.	1.2	49
106	High-temperature-superconductor coated conductors: technical progress in Japan. Superconductor Science and Technology, 2000, 13, 68-81.	3.5	100
107	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
108	Enhanced J _c properties in superconducting NbTi composites by introducing Nb artificial pins with a layered structure. Applied Physics Letters, 1994, 64, 115-117.	3.3	51

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109	Proximity coupling effect in NbTi fineâ€multifilamentary superconducting composites. Applied Physics Letters, 1990, 57, 816-818.	3.3	12
110	Effect of <i>c</i> -Axis-Correlated Disorders on the Vortex Diagram of the Pinning State. Applied Physics Express, 0, 1, 031703.	2.4	5
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