

Akira Ibi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Estimation Method for AC Loss of Perpendicularly Stacked REBa ₂ Cu ₃ O Superconducting Tapes under Magnetic Field. Physica C: Superconductivity and Its Applications, 2021, 580, 1353801.	1.2	11
2	Nanostructural characterization of EuBa ₂ Cu ₃ O _y layers containing 3.5 mol%BaHfO ₃ nanorods grown by pulsed laser deposition growing in both vaporâ€‘solid and vaporâ€‘liquidâ€‘solid modes. Superconductor Science and Technology, 2020, 33, 024002.	3.5	4
3	Difference of AC Losses Between Nonstriated and Striated Tape and Applicability of Temperature Scaling Law to Stacked Striated Tape. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	3
4	Improved Flux Pinning for High-Field Applications in BaHfO ₃ -Doped SmBa ₂ Cu ₃ O _y -Coated Conductors With High Density of Random Pinning Centers Induced by BaHfO ₃ Nanorods. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	4
5	Effects of the Grain-Boundary Angle of the Buffer Layer on the In-Field Critical Current Density (J_c) of Y _{1-x} Tb _x ETQq1 1 0.784314 rgBT /Overlaid Superconductivity, 2017, 27, 1-4.	1.7	0
6	Scribing Effect on Shielding Current in REBCO Superconducting Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	5
7	AC Loss Properties of Stacked REBCO Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	8
8	Strongly enhanced irreversibility field and flux pinning force density in SmBa ₂ Cu ₃ O _y -coated conductors with well-aligned BaHfO ₃ nanorods. Applied Physics Express, 2017, 10, 103101.	2.4	11
9	Strong flux pinning at 4.2 K in SmBa ₂ Cu ₃ O _y -coated conductors with BaHfO ₃ nanorods controlled by low growth temperature. Superconductor Science and Technology, 2017, 30, 084009.	3.5	23
10	The influence of grain boundary on the macroscopic strain effect of BHO-doped GdBCO-coated conductors. Superconductor Science and Technology, 2016, 29, 075003.	3.5	2
11	Comparison between Bi-2223 tape and RE-123 coated conductor from the view point of current transport properties influencing thermal stability. Cryogenics, 2016, 80, 221-228.	1.7	11
12	Development of Long Coated Conductors with High In-field J_c Performance by PLD Method at High Production Rate. Physics Procedia, 2016, 81, 97-100.	1.2	9
13	Relaxation of Shielding Current in Test Coils for MRI With REBCO Superconducting Scribed Tapes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	6
14	New Method for Quick Decay of Shielding Current in REBCO Superconducting Coils. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-9.	1.7	7
15	Influence of Artificial Pinning Centers on Strain Effect in BaHfO ₃ -Doped GdBa ₂ Cu ₃ O _y -Coated Conductors Fabricated by Pulsed Laser Deposition. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	2
16	Decay of Shielding Current in Stacked REBCO Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	3
17	Development of Long REBCO with BMO Coated Conductors by PLD Method with High Production Rate. Physics Procedia, 2015, 65, 121-124.	1.2	3
18	Fabrication of 93.7 m long PLD-EuBCO + BaHfO ₃ coated conductors with 103 A/cm W at 77 K under 3 T. Physica C: Superconductivity and Its Applications, 2015, 518, 54-57.	1.2	4

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19	Fabrication of $\text{Eu}_1\text{Ba}_2\text{Cu}_3\text{O}_{7-x} + \text{BaHfO}_3$ coated conductors with 141 A/cm-w under 3 T at 77 K using the IBAD/PLD process. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 504, 42-46.	1.2	37
20	Development of High I Long REBCO Tapes with High Production Rate by PLD Method. <i>Physics Procedia</i> , 2013, 45, 145-148.	1.2	3
21	Transmission electron microscopy study of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-x}$ containing nano-sized BaMO_3 (M: Hf, Zr). <i>Tj ETQq1 1.0, 784314, 5rgBT / Overlock 10 Tf</i>	3.7	1
22	Nondestructive inductive measurement of local critical current densities and n-values in coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 492, 36-43.	1.2	1
23	High-rate deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ high-temperature superconducting films by IR-laser-assisted chemical vapor deposition. <i>Superconductor Science and Technology</i> , 2013, 26, 045020.	3.5	8
24	Strain Dependence of Superconducting Properties for GdBCO Coated Conductor in High Field Under Tensile Load. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 6600504-6600504.	1.7	7
25	AC Loss Properties of Laser-Scribed Multi-Filamentary GdBCO Coated Conductors with Artificial Pinning Centres. <i>Physics Procedia</i> , 2012, 36, 1522-1527.	1.2	2
26	Surface roughness of MgO thin film and its critical thickness for optimal biaxial texturing by ion-beam-assisted deposition. <i>Journal of Applied Physics</i> , 2011, 109, 113922.	2.5	23
27	Mechanical and transport characteristic exploration for coated conductors by hoop stress tests. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 1062-1066.	1.2	4
28	Electromagnetic Stress Properties of Gd123 Monolayer Coils. <i>TEION KOGAKU (Journal of Cryogenics)</i> Tj ETQq0 0 0 rgBT / Overlock 10 Tf	0.1	0
29	Evaluation of current transport properties of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors over a wide range of temperature and external magnetic fields. <i>Journal of Physics: Conference Series</i> , 2010, 234, 022009.	0.4	5
30	Three-dimensional analysis of BaZrO_3 pinning centers gives isotropic superconductivity in $\text{GdBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Journal of Applied Physics</i> , 2010, 108, 063901.	2.5	25
31	Improvement of spatial homogeneity in GdBCO/IBAD-MgO coated conductor. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 1288-1291.	1.2	1
32	Current transport property in GdBCO coated conductor with artificial pinning centers in a wide range of temperature, magnetic field up to 27T, and field angle. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, 1292-1294.	1.2	4
33	Unique behaviour of $\text{RE}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ superconducting tapes producing drastic reduction of pinning loss. <i>Superconductor Science and Technology</i> , 2010, 23, 075009.	3.5	9
34	Reversible strain limit of critical currents and universality of intrinsic strain effect for REBCO-coated conductors. <i>Superconductor Science and Technology</i> , 2009, 22, 025015.	3.5	26
35	Long IBAD-MgO and PLD coated conductor. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 1298-1302.	1.2	19
36	High production rate of IBAD-MgO buffered substrate. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 1361-1363.	1.2	17

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37	Superconducting layer thickness of relaxation properties of persistent current in high magnetic field in YBCO-coated conductor. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 1122-1125.	1.2	0
38	Development of TFA-MOD Process for Coated Conductors in Japan. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 3119-3122.	1.7	17
39	Development of Long Length IBAD-MgO and PLD Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 3236-3239.	1.7	23
40	Thickness Dependence of In-field J_c of Artificial-Pinning-Center-Introduced $GdBa_2Cu_3O_{7-\delta}$ Superconducting Films. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> 10(1) 50-60	1.7	17
41	Development of long REBCO coated conductors with artificial pinning centers by using MPMT-PLD method. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 1514-1517.	1.2	23
42	Development of scribing process of coated conductors for reduction of AC losses. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 1579-1582.	1.2	22
43	Improvement of spatial homogeneity in IBAD based YBCO coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 1518-1521.	1.2	4
44	Diffusion joint using silver layer of YBCO coated conductors for applications. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 1571-1574.	1.2	22
45	Development of a laser scribing process of coated conductors for the reduction of AC losses. <i>Superconductor Science and Technology</i> , 2007, 20, 822-826.	3.5	51
46	Rapid Formation of 200 m-long YBCO Coated Conductor by Multi-Stage CVD. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3386-3389.	1.7	17
47	GdBaCuO and YBaCuO Long Coated Conductors by IBAD-PLD Method—Enhancement of Production Speed and Critical Current in a Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3371-3374.	1.7	6
48	Visualizing Transport Properties in IBAD Based YBCO Coated Conductors by Multiple Analysis Techniques. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3211-3214.	1.7	26
49	Properties of Long GdBCO Coated Conductor by IBAD-PLD Method—The First GdBCO Coil Test. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3367-3370.	1.7	12
50	Current Transport Properties of 200 A-200 m-Class IBAD YBCO Coated Conductor Over Wide Range of Magnetic Field and Temperature. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3207-3210.	1.7	32
51	IBAD-PLD Method Coated Conductor with High Critical Current in a Magnetic Field. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007, 71, 1011-1016.	0.4	4
52	Single-Buffer-Architected Coated Conductor Based on IBAD and PLD Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3406-3408.	1.7	0
53	Developments of low cost coated conductors by multi-stage CVD process. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 488-492.	1.2	11
54	Development of a thick GdBCO and ZrO ₂ -doped GdBCO film with a high critical current on a PLD-CeO ₂ /IBAD-GZO metal substrate. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 630-632.	1.2	5

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55	Evaluation of film thickness dependency of the reversible fluxoid motion in the third harmonic voltage method. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 692-696.	1.2	3
56	Investigation of in-field properties of YBCO multi-layer film on PLD/IBAD metal substrate. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 661-664.	1.2	6
57	EBSP observation of oriented textures in Y-based coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 727-731.	1.2	3
58	Effect of ion-irradiation and annealing on superconductive property of PLD prepared YBCO tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 665-668.	1.2	29
59	Dependence of superconducting layer thickness on critical current density of YBCO-coated conductors at high temperatures. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 697-701.	1.2	7
60	Enhancement of critical current in YBCO coated conductors in association with c-axis correlated artificial pinning centers. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 674-677.	1.2	4
61	GdBCO and YBCO long coated conductors and coils. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 501-504.	1.2	19
62	J_c characteristics of (RE,RE \hat{e}) \hat{e} Ba \hat{e} Cu \hat{e} O films on PLD-CeO \hat{e} /IBAD-GZO/metal substrates. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 463-465, 682-685.	1.2	0
63	Development of High I_c and Long GdBCO Coated Conductors using IBAD/MPMT-PLD Method. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2007, 42, 42-46.	0.1	0
64	Growth and characterization of Sm-Ba-Cu-O films and other RE-Ba-Cu-O films on PLD-CeO \hat{e} /IBAD-GZO/metal substrates. <i>Journal of Physics: Conference Series</i> , 2006, 43, 174-177.	0.4	1
65	Film thickness dependence of critical current characteristics of YBCO-coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 141-145.	1.2	9
66	J_c characteristics of RE \hat{e} Ba \hat{e} Cu \hat{e} O (RE=Sm, Er and [Gd,Er]) films on PLD-CeO \hat{e} /IBAD-GZO/metal substrates. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 633-636.	1.2	9
67	Nanostructural characterization of Y123 and Gd123 with BaZrO \hat{e} rods fabricated by pulsed-laser deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 628-632.	1.2	16
68	Investigation of magnetic properties of YBCO film with artificial pinning centers on PLD/IBAD metal substrate. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 625-627.	1.2	14
69	Development of a magneto-optical imaging equipment for long length 2G-HTS tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 673-676.	1.2	16
70	Towards the practical PLD-IBAD coated conductor fabrication \hat{e} Long wire, high production rate and J_c enhancement in a magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 504-508.	1.2	23
71	Development of long YBCO coated conductors by IBAD \hat{e} PLD method. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 525-528.	1.2	38
72	Efforts for high throughput of IBAD-GZO-based substrate process for YBCO coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 611-613.	1.2	5

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73	Non-destructive characterization of long coated conductors using a Hall sensor array. Physica C: Superconductivity and Its Applications, 2006, 445-448, 669-672.	1.2	20
74	Nanostructural characterization of YBCO films on metal tape with textured buffer layer fabricated by pulsed-laser deposition. Journal of Materials Science, 2006, 41, 2587-2595.	3.7	8
75	Investigation of thick PLD-GdBCO and ZrO ₂ doped GdBCO coated conductors with high critical current on PLD-CeO ₂ capped IBAD-GZO substrate tapes. Superconductor Science and Technology, 2006, 19, 924-929.	3.5	81
76	Development of long GdBCO coated conductor using the IBAD/MPMT-PLD method. Superconductor Science and Technology, 2006, 19, 1229-1232.	3.5	48
77	Transmission electron microscopy studies of YBCO coated conductors prepared by pulsed-laser deposition and multiple-stage chemical vapor deposition processes. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1033-1042.	1.2	9
78	Flux pinning characteristics of YBCO coated conductor. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1096-1102.	1.2	11
79	Continuous fabrication of self-epitaxial PLD-CeO ₂ cap layer on IBAD tape for YBCO coated conductors. Physica C: Superconductivity and Its Applications, 2005, 426-431, 904-909.	1.2	3
80	Investigations of thick YBCO coated conductor with high critical current using IBAD-PLD method. Physica C: Superconductivity and Its Applications, 2005, 426-431, 910-914.	1.2	54
81	Magnetic field dependence of critical currents in PLD RE-Ba-Cu-O (RE=Er,Dy,Gd) film prepared on CeO ₂ capped IBAD-GZO layers. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1001-1004.	1.2	5
82	Dependence of critical current properties on the thickness of the superconducting layer in YBCO coated tapes. Superconductor Science and Technology, 2005, 18, S227-S231.	3.5	27
83	Magnetic field dependence of J_c for Gd-123 coated conductor on PLD-CeO ₂ capped IBAD-GZO substrate tapes. Superconductor Science and Technology, 2005, 18, 1118-1122.	3.5	65
84	Rapid Production of Buffered Substrates and Long Length Coated Conductor Development Using IBAD, PLD Methods and Self-Epitaxial-Ceria Buffer. IEEE Transactions on Applied Superconductivity, 2005, 15, 2600-2603.	1.7	16
85	Continuous Deposition and Rapid Fabrication of Self-Epitaxial CeO_2 Cap Layers by PLD Method on IBAD Buffers. IEEE Transactions on Applied Superconductivity, 2005, 15, 2695-2698.	1.7	4
86	Investigation of Multi-Deposition for High J_c YBCO Coated Conductors Prepared by PLD on Self-Epitaxial CeO_2 Buffers. IEEE Transactions on Applied Superconductivity, 2005, 15, 2620-2623.	1.7	14
87	High Rate Deposition by PLD of YBCO Films for Coated Conductors. IEEE Transactions on Applied Superconductivity, 2005, 15, 2566-2569.	1.7	26
88	Epitaxial nanostructure and defects effective for pinning in Y(RE)Ba ₂ Cu ₃ O _{7-x} coated conductors. Applied Physics Letters, 2005, 87, 132502.	3.3	285
89	High J_c and Long YBCO Coated Conductor using Multi-plume and Multi-turn PLD Method. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2005, 40, 585-590.	0.1	5
90	Development of Long YBCO Coated Conductor by IBAD-PLD Method-Self-Epitaxial PLD-CeO ₂ Cap Layer on IBAD Buffer Substrate-. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 712-717.	0.4	4

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91	Development of Long IBAD-PLD YBCO Coated Conductor-Long Length Conductor and Rapid Production Rate for Industrialization-. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 706-711.	0.4	0
92	Fabrication of High Jc YBa ₂ Cu ₃ O _{7-x} Coated Conductors Prepared by Pulsed Laser Deposition on Self-Epitaxial CeO ₂ Buffers. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 718-722.	0.4	8
93	Improvement of the weak-link in BSCCO by controlled overlapping of excimer laser exposure. Physica C: Superconductivity and Its Applications, 2002, 378-381, 688-691.	1.2	0
94	Excimer laser annealing of HTS surface. Physica C: Superconductivity and Its Applications, 2001, 357-360, 730-733.	1.2	1
95	Shielding of pulsed magnetic fields with already sintered 1 $\hat{1}$ / ₄ m sized powder-pressed Bi-based superconducting rings. Applied Physics Letters, 2001, 78, 3854-3856.	3.3	4