

Tomoya Horide

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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.	1.8	237
2	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.	1.8	79
3	Structural Evolution Induced by Interfacial Lattice Mismatch in Self-Organized YBa ₂ Cu ₃ O _{7-δ} Nanocomposite Film. ACS Nano, 2017, 11, 1780-1788.	7.3	63
4	Influence of matching field on critical current density and irreversibility temperature in YBa ₂ Cu ₃ O ₇ films with BaMO ₃ (M = Zr, Sn, Hf) nanorods. Applied Physics Letters, 2016, 108, .	1.5	39
5	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.	1.5	30
6	Thermoelectric Property in Orthorhombic-Domained SnSe Film. ACS Applied Materials & Interfaces, 2019, 11, 27057-27063.	4.0	28
7	Irreversibility fields and critical current densities in strongly pinned YBa ₂ Cu ₃ O _{7-x} films with BaSnO ₃ nanorods: The influence of segmented BaSnO ₃ nanorods. Journal of Applied Physics, 2014, 116, .	1.1	25
8	Isotropic enhancement in the critical current density of YBCO thin films incorporating nanoscale Y ₂ BaCuO ₅ inclusions. Journal of Applied Physics, 2017, 122, .	1.1	25
9	Control of the glass-liquid transition temperature in $YBa_2Cu_3O_{7-\delta}$. Physical Review B, 2009, 79, .	1.1	22
10	Tailoring the vortex pinning strength of YBCO thin films by systematic incorporation of hybrid artificial pinning centers. Superconductor Science and Technology, 2015, 28, 114004.	1.8	21
11	Pin potential effect on vortex pinning in YBa ₂ Cu ₃ O _{7-δ} films containing nanorods: Pin size effect and mixed pinning. Applied Physics Letters, 2017, 110, .	1.5	21
12	Elastic strain evolution in nanocomposite structure of YBa ₂ Cu ₃ O ₇ +BaZrO ₃ superconducting films. Japanese Journal of Applied Physics, 2014, 53, 083101.	0.8	19
13	Geometric and compositional factors on critical current density in YBa ₂ Cu ₃ O _{7-δ} films containing nanorods. Superconductor Science and Technology, 2018, 31, 065012.	1.8	18
14	Evaluation of vortex pinning across low angle grain boundary in YBa ₂ Cu ₃ O ₇ film. Applied Physics Letters, 2012, 101, 112604.	1.5	17
15	Tuning the microstructure and vortex pinning properties of YBCO-based superconducting nanocomposite films by controlling the target rotation speed. Superconductor Science and Technology, 2014, 27, 025009.	1.8	15
16	Controlling the Critical Current Anisotropy of YBCO Superconducting Films by Incorporating Hybrid Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	15
17	Anisotropic strain dependence of oxygen vacancy formation in YBa ₂ Cu ₃ O _{7-δ} : first principle study. Superconductor Science and Technology, 2014, 27, 115013.	1.8	13
18	Irreversibility Fields and Critical Current Densities in Strongly Pinned YBa ₂ Cu ₃ O _{7-x} Films With Artificial Pinning Centers. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.1	12

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19	Influence of strain and composition on T _c in FeSe _{1-x} Te _x films. Journal of Applied Physics, 2014, 116, 213906.	1.1	11
20	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.	1.1	10
21	Systematic Variation of Hybrid APCs Into YBCO Thin Films for Improving the Vortex Pinning Properties. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	10
22	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	0.9	9
23	Strong c-axis correlated pinning and hybrid pinning in YBa ₂ Cu ₃ O _{7-δ} films containing BaHfO ₃ nanorods and stacking faults. Superconductor Science and Technology, 2017, 30, 074009.	1.8	8
24	Temperature dependence of critical currents in REBCO thin films with artificial pinning centers. Superconductor Science and Technology, 2017, 30, 104006.	1.8	7
25	Thermoelectric Property of n-Type Bismuth-Doped SnSe Film: Influence of Characteristic Film Defect. ACS Applied Energy Materials, 2021, 4, 9563-9571.	2.5	7
26	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.	0.8	6
27	Combined effect of nanorod and stacking fault for improving nanorod interface in YBa ₂ Cu ₃ O _{7-δ} nanocomposite films. Superconductor Science and Technology, 2020, 33, 115001.	1.8	6
28	Observation of inhomogeneous depinning in YBa ₂ Cu ₃ O ₇ composite multilayers. Superconductor Science and Technology, 2019, 32, 085001.	1.8	5
29	Nanostructures and flux pinning properties in YBa ₂ Cu ₃ O _{7-δ} thin films with double perovskite Ba ₂ LuNbO ₆ nanorods. Journal of Applied Physics, 2021, 129, 195301.	1.1	5
30	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.	1.8	5
31	Fabrication of Y doped BaZrO ₃ epitaxial film on YBa ₂ Cu ₃ O _x sacrificial buffer layer. Thin Solid Films, 2016, 598, 25-32.	0.8	3
32	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.	0.8	3
33	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.	2.0	3
34	Deposition-Temperature Dependence of Vortex Pinning Property in YBa ₂ Cu ₃ O ₇ +BaHfO ₃ Films. Materials Transactions, 2020, 61, 449-454.	0.4	2
35	PM-07 Structure Characterization of Bi-Doped SnSe Thin Films Fabricated by Pulse Laser Deposition. Microscopy (Oxford, England), 2019, 68, i38-i38.	0.7	1
36	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.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Self-organized formation of a-few-nanometer sized nanocolumns in chalcogenide-oxide nanocomposite film. Thin Solid Films, 2021, 733, 138802.	0.8	1
38	Deposition-Temperature Dependence of Vortex Pinning Property in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-x}+\text{BaHfO}_{3}$ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.2	1
39	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.	1.1	1
40	Control of Vortex Pinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-x}$ Nanocomposite Film. Materia Japan, 2019, 58, 563-569.	0.1	0
41	Aligned Self-Organization Induced by Epitaxial Stress and Shear Deformation in Jahn-Teller Spinel ZnMnGaO_4 . Journal of Physical Chemistry C, 0, , .	1.5	0