

# Tomoya Horide

## List of Publications by Year in descending order

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#	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.	1.1	1
2	Self-Organized Nanocomposite Structure Controlled by Elemental Site Occupancy to Improve Vortex Pinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ Superconducting Films. ACS Applied Electronic Materials, 2022, 4, 3018-3026.	2.0	3
3	Overcoming optimization constraint for $J_{c}$ by hybrid pinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ films containing nanorods. Japanese Journal of Applied Physics, 2021, 60, 023001.	0.8	3
4	Nanostructures and flux pinning properties in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-x}$ thin films with double perovskite $\text{Ba}_{2}\text{LuNbO}_{6}$ nanorods. Journal of Applied Physics, 2021, 129, 195301.	1.1	5
5	Angular vortex phase diagram in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ films with c-axis correlated pinning centers. Superconductor Science and Technology, 2021, 34, 085015.	1.8	1
6	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
7	Self-organized formation of a-few-nanometer sized nanocolumns in chalcogenide-oxide nanocomposite film. Thin Solid Films, 2021, 733, 138802.	0.8	1
8	Deposition-Temperature Dependence of Vortex Pinning Property in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}+\text{BaHfO}_{3}$ Films. Materials Transactions, 2020, 61, 449-454.	0.4	2
9	Simultaneous achievement of high $J_{c}$ and suppressed $J_{c}$ anisotropy by hybrid pinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ three-phase-nanocomposite film. Superconductor Science and Technology, 2020, 33, 105003.	1.8	5
10	Combined effect of nanorod and stacking fault for improving nanorod interface in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-x}$ nanocomposite films. Superconductor Science and Technology, 2020, 33, 115001.	1.8	6
11	Thermoelectric Property in Orthorhombic-Domained SnSe Film. ACS Applied Materials & Interfaces, 2019, 11, 27057-27063.	4.0	28
12	Observation of inhomogeneous depinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ composite multilayers. Superconductor Science and Technology, 2019, 32, 085001.	1.8	5
13	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
14	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	0.9	9
15	Deposition-Temperature Dependence of Vortex Pinning Property in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}+\text{BaHfO}_{3}$ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.2	1
16	Control of Vortex Pinning in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ Nanocomposite Film. Materia Japan, 2019, 58, 563-569.	0.1	0
17	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.	1.8	18
18	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.	7.3	63

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19	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. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	21
20	Strong-c-axis correlated pinning and hybrid pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films containing $\text{BaHfO}_3$ nanorods and stacking faults. <i>Superconductor Science and Technology</i> , 2017, 30, 074009.	1.8	8
21	Temperature dependence of critical currents in REBCO thin films with artificial pinning centers. <i>Superconductor Science and Technology</i> , 2017, 30, 104006.	1.8	7
22	Isotropic enhancement in the critical current density of YBCO thin films incorporating nanoscale $\text{Y}_2\text{BaCuO}_5$ inclusions. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	25
23	Influence of matching field on critical current density and irreversibility temperature in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films with $\text{BaMO}_3$ ( $M = \text{Zr, Sn, Hf}$ ) nanorods. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	39
24	Fabrication of Y doped $\text{BaZrO}_3$ epitaxial film on $\text{YBa}_2\text{Cu}_3\text{O}_x$ sacrificial buffer layer. <i>Thin Solid Films</i> , 2016, 598, 25-32.	0.8	3
25	Controlling the Critical Current Anisotropy of YBCO Superconducting Films by Incorporating Hybrid Artificial Pinning Centers. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	15
26	Tailoring the vortex pinning strength of YBCO thin films by systematic incorporation of hybrid artificial pinning centers. <i>Superconductor Science and Technology</i> , 2015, 28, 114004.	1.8	21
27	Irreversibility Fields and Critical Current Densities in Strongly Pinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films With Artificial Pinning Centers. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-6.	1.1	12
28	Systematic Variation of Hybrid APCs Into YBCO Thin Films for Improving the Vortex Pinning Properties. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	10
29	Tuning the microstructure and vortex pinning properties of YBCO-based superconducting nanocomposite films by controlling the target rotation speed. <i>Superconductor Science and Technology</i> , 2014, 27, 025009.	1.8	15
30	Influence of strain and composition on $T_c$ in $\text{FeSe}_{1-x}\text{Te}_x$ films. <i>Journal of Applied Physics</i> , 2014, 116, 213906.	1.1	11
31	Irreversibility fields and critical current densities in strongly pinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films with $\text{BaSnO}_3$ nanorods: The influence of segmented $\text{BaSnO}_3$ nanorods. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	25
32	Elastic strain evolution in nanocomposite structure of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x} + \text{BaZrO}_3$ superconducting films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 083101.	0.8	19
33	Anisotropic strain dependence of oxygen vacancy formation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ : first principle study. <i>Superconductor Science and Technology</i> , 2014, 27, 115013.	1.8	13
34	Improvement by double artificial pinning centers of $\text{BaSnO}_3$ nanorods and $\text{Y}_2\text{O}_3$ nanoparticles in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors. <i>Superconductor Science and Technology</i> , 2013, 26, 075019.	1.8	79
35	Variation of c-axis correlation on vortex pinning by ab-plane non-superconducting layers in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films. <i>Journal of Applied Physics</i> , 2013, 114, 073903.	1.1	10
36	Evaluation of vortex pinning across low angle grain boundary in $\text{YBa}_2\text{Cu}_3\text{O}_7$ film. <i>Applied Physics Letters</i> , 2012, 101, 112604.	1.5	17

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37	Control of the glass-liquid transition temperature in $YBa_2Cu_3O_{7-x}$ Physical Review B, 2009, 79, .		
38	Ultra-high flux pinning properties of BaMO <sub>3</sub> -doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films (M = Zr, Sn). Superconductor Science and Technology, 2008, 21, 032002.	1.8	237
39	The crossover from the vortex glass to the Bose glass in nanostructured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films. Applied Physics Letters, 2008, 92, 182511.	1.5	30
40	Anisotropy and Lorentz-Force Dependences of Critical Current Density in C-Axis-Oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Thin Film. Japanese Journal of Applied Physics, 2005, 44, L1111-L1113.	0.8	6
41	Aligned Self-Organization Induced by Epitaxial Stress and Shear Deformation in Jahn-Teller Spinel ZnMnGaO <sub>4</sub> . Journal of Physical Chemistry C, 0, , .	1.5	0