

Akihiro Tsuruta

List of Publications by Year in descending order

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38
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825
citing authors

#	ARTICLE	IF	CITATIONS
1	A solution-processed TiS ₂ /organic hybrid superlattice film towards flexible thermoelectric devices. Journal of Materials Chemistry A, 2017, 5, 564-570.	10.3	130
2	The influence of the geometric characteristics of nanorods on the flux pinning in high-performance BaMO ₃ -doped SmBa ₂ Cu ₃ O _y films (M = Hf, Sn). Superconductor Science and Technology, 2014, 27, 065001.	3.5	57
3	Development of an Exhaled Breath Monitoring System with Semiconductive Gas Sensors, a Gas Condenser Unit, and Gas Chromatograph Columns. Sensors, 2016, 16, 1891.	3.8	54
4	Selective Detection of Target Volatile Organic Compounds in Contaminated Humid Air Using a Sensor Array with Principal Component Analysis. Sensors, 2017, 17, 1662.	3.8	36
5	Effect of PVP on the synthesis of high-dispersion core-shell barium-titanate polyvinylpyrrolidone nanoparticles. Journal of Asian Ceramic Societies, 2017, 5, 216-225.	2.3	35
6	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
7	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
8	Synthesis of highly disperse tetragonal BaTiO_3 nanoparticles with core-shell by a hydrothermal method. Journal of Asian Ceramic Societies, 2017, 5, 444-451.	2.3	18
9	Selective Detection of Target Volatile Organic Compounds in Contaminated Air Using Sensor Array with Machine Learning: Aging Notes and Mold Smells in Simulated Automobile Interior Contaminant Gases. Sensors, 2020, 20, 2687.	3.8	17
10	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
11	Enhancement of critical current density in the force-free state of BaHfO_3 -doped multilayered $\text{SmBa}_2\text{Cu}_3\text{O}_y$ film. Japanese Journal of Applied Physics, 2014, 53, 078003.	1.5	14
12	Vortex pinning at low temperature under high magnetic field in $\text{SmBa}_2\text{Cu}_3\text{O}_y$ superconducting films with high number density and small size of BaHfO_3 nano-rods. Superconductor Science and Technology, 2015, 28, 114006.	3.5	14
13	Flux Pinning Properties and Microstructures of Multilayered Films Consisting of $\text{Sm}_{1.04}\text{Ba}_{1.96}\text{Cu}_3\text{O}_y$ Layers and BaSnO_3 -Doped $\text{Sm}_{1.04}\text{Ba}_{1.96}\text{Cu}_3\text{O}_y$ Layers. Japanese Journal of Applied Physics, 2013, 52, 010201.	1.5	13
14	Determinant for Self-Organization of BaMO_3 Nanorods Included in Vapor-Phase-Grown $\text{REBa}_2\text{Cu}_3\text{O}_y$ Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	13
15	CH ₃ SH and H ₂ S Sensing Properties of V ₂ O ₅ /WO ₃ /TiO ₂ Gas Sensor. Chemosensors, 2021, 9, 113.	3.6	13
16	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
17	Superconducting Properties in $\text{SmBa}_2\text{Cu}_3\text{O}_y$ Films With High Density of BaHfO_3 Nanorods Fabricated With a Seed Layer. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	9
18	Increase in breath hydrogen concentration was correlated with the main pancreatic duct stenosis. Journal of Breath Research, 2018, 12, 036004.	3.0	9

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19	Trial of an All-Ceramic SnO ₂ Gas Sensor Equipped with CaCu ₃ Ru ₄ O ₁₂ Heater and Electrode. <i>Materials</i> , 2018, 11, 981.	2.9	9
20	Thermoelectric Array Sensors with Selective Combustion Catalysts for Breath Gas Monitoring. <i>Sensors</i> , 2018, 18, 1579.	3.8	9
21	Thin Film Coating with Highly Dispersible Barium Titanate-Polyvinylpyrrolidone Nanoparticles. <i>Materials</i> , 2018, 11, 712.	2.9	8
22	Ba _{1/3} CoO ₂ : A Thermoelectric Oxide Showing a Reliable α of 40.55 at 600 Å°C in Air. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33355-33360.	8.0	8
23	Effect of Pt electrodes in cerium oxide semiconductor-type oxygen sensors evaluated using alternating current. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130396.	7.8	7
24	High electrical conductivity of composite ceramics consisting of insulating oxide and ordered perovskite conducting oxide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600968.	1.8	6
25	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. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.7	5
26	Unusually Small Thermal Expansion of Ordered Perovskite Oxide CaCu ₃ Ru ₄ O ₁₂ with High Conductivity. <i>Materials</i> , 2018, 11, 1650.	2.9	5
27	Formation Mechanism and Dispersion of Pseudo-Tetragonal BaTiO ₃ -PVP Nanoparticles from Different Titanium Precursors: TiCl ₄ and TiO ₂ . <i>Materials</i> , 2018, 11, 51.	2.9	4
28	Gas Sensing Properties of High-Purity Semiconducting Single-Walled Carbon Nanotubes for NH ₃ , H ₂ , and NO. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 121004.	1.8	4
29	Dependence of BaMO ₃ (M=Zr, Sn, Hf) Materials on Lattice Stress and T_c in BaMO ₃ -Doped SmBa ₂ Cu ₃ O _y Thin Films. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2015, 50, 224-231.	0.1	3
30	Element Strategy Using Ru-Mn Substitution in CuO-CaCu ₃ Ru ₄ O ₁₂ Composite Ceramics with High Electrical Conductivity. <i>Crystals</i> , 2017, 7, 213.	2.2	3
31	Co-Substitution Effect in Room-Temperature Ferromagnetic Oxide Sr ₃ Y _{0.9} Co ₄ O _{10.5} . <i>Materials</i> , 2020, 13, 2301.	2.9	3
32	Superconducting Property of BaHfO ₃ Doped SmBa ₂ Cu ₃ O _y Films Prepared by Alternating-targets Technique on IBAD-MgO. <i>Physics Procedia</i> , 2013, 45, 149-152.	1.2	2
33	High critical current density and its magnetic fields dependence in (Sm,Eu,Gd)Ba ₂ Cu ₃ O _y films by using multiple targets. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 484, 130-133.	1.2	2
34	Vortex Pinning Properties at Grain Boundary in SmBa ₂ Cu ₃ O _y Superconducting Films With BaHfO ₃ Nanorods Controlled via Low-Temperature Growth. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	2
35	Development of Na _{0.5} CoO ₂ Thick Film Prepared by Screen-Printing Process. <i>Materials</i> , 2020, 13, 2805.	2.9	2
36	Temperature dependence of electrical transport properties of La ₄ BaCu _{5-x} CoxO ₁₃ + δ conducting oxide thin films. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EJ08.	1.5	1

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37	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
38	High Temperature Electrical Properties of Co-Substituted La ₄ BaCu ₅ O ₁₃ + \hat{r} Thin Films Fabricated by Sputtering Method. Materials, 2021, 14, 2685.	2.9	0