Akihiro Tsuruta

List of Publications by Year
in descending order

38 papers	591 citations	687363 13 h-index	610901 24 g-index
38 all docs	38 docs citations	38 times ranked	825 citing authors

#	Article	IF	Citations
1	Ba_{1/3}CoO₂: A Thermoelectric Oxide Showing a Reliable ZT of â¼0.55 at 600 Â°C in Air. ACS Applied Materials & Interfaces, 2022, 14, 33355-33360.	8.0	8
2	High Temperature Electrical Properties of Co-Substituted La4BaCu5O13+Î´ Thin Films Fabricated by Sputtering Method. Materials, 2021, 14, 2685.	2.9	0
3	CH3SH and H2S Sensing Properties of V2O5/WO3/TiO2 Gas Sensor. Chemosensors, 2021, 9, 113.	3.6	13
4	Effect of Pt electrodes in cerium oxide semiconductor-type oxygen sensors evaluated using alternating current. Sensors and Actuators B: Chemical, 2021, 345, 130396.	7.8	7
5	Gas Sensing Properties of High-Purity Semiconducting Single-Walled Carbon Nanotubes for NH₃, H₂, and NO. ECS Journal of Solid State Science and Technology, 2021, 10, 121004.	1.8	4
6	Co-Substitution Effect in Room-Temperature Ferromagnetic Oxide Sr3.1Y0.9Co4O10.5. Materials, 2020, 13, 2301.	2.9	3
7	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
8	Development of Na0.5CoO2 Thick Film Prepared by Screen-Printing Process. Materials, 2020, 13, 2805.	2.9	2
9	Increase in breath hydrogen concentration was correlated with the main pancreatic duct stenosis. Journal of Breath Research, 2018, 12, 036004.	3.0	9
10	Unusually Small Thermal Expansion of Ordered Perovskite Oxide CaCu3Ru4O12 with High Conductivity. Materials, 2018, 11, 1650.	2.9	5
11	Trial of an All-Ceramic SnO2 Gas Sensor Equipped with CaCu3Ru4O12 Heater and Electrode. Materials, 2018, 11, 981.	2.9	9
12	Formation Mechanism and Dispersion of Pseudo-Tetragonal BaTiO3-PVP Nanoparticles from Different Titanium Precursors: TiCl4 and TiO2. Materials, 2018, 11, 51.	2.9	4
13	Thin Film Coating with Highly Dispersible Barium Titanate-Polyvinylpyrrolidone Nanoparticles. Materials, 2018, 11, 712.	2.9	8
14	Thermoelectric Array Sensors with Selective Combustion Catalysts for Breath Gas Monitoring. Sensors, 2018, 18, 1579.	3.8	9
15	High electrical conductivity of composite ceramics consisting of insulating oxide and ordered perovskite conducting oxide. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600968.	1.8	6
16	Effect of PVP on the synthesis of high-dispersion coreâ€“shell barium-titanateâ€“polyvinylpyrrolidone nanoparticles. Journal of Asian Ceramic Societies, 2017, 5, 216-225.	2.3	35
17	A solution-processed TiS₂/organic hybrid superlattice film towards flexible thermoelectric devices. Journal of Materials Chemistry A, 2017, 5, 564-570.	10.3	130
18	Synthesis of highly disperse tetragonal BaTiO₃ nanoparticles with coreâ€“shell by a hydrothermal method. Journal of Asian Ceramic Societies, 2017, 5, 444-451.	2.3	18

#	Article	IF	Citations
19	Vortex Pinning Properties at Grain Boundary in SmBa2Cu3 ${ext{O}}_{y}$ Superconducting Films With BaHfO3 Nanorods Controlled via Low-Temperature Growth. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	2
20	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
21	Element Strategy Using Ru-Mn Substitution in CuO-CaCu3Ru4O12 Composite Ceramics with High Electrical Conductivity. Crystals, 2017, 7, 213.	2.2	3
22	Temperature dependence of electrical transport properties of La4BaCu5â^'xCoxO13+Î´conducting oxide thin films. Japanese Journal of Applied Physics, 2016, 55, 04EJ08.	1.5	1
23	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
24	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
25	Dependence of BaMO₃ (M=Zr, Sn, Hf) Materials on Lattice Stress and T_c in BaMO₃-Doped SmBa₂Cu₃O_y Thin Films. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2015, 50, 224-231.	0.1	3
26	Vortex pinning at low temperature under high magnetic field in SmBa₂Cu₃O_ysuperconducting films with high number density and small size of BaHfO₃nano-rods. Superconductor Science and Technology, 2015, 28, 114006.	3.5	14
27	Superconducting Properties in SmBa₂Cu₃O_y Films With High Density of BaHfO₃ Nanorods Fabricated With a Seed Layer. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	9
28	Effect of BaHfO3introduction on the transport current at the grain boundaries in SmBa2Cu3Oyfilms. Applied Physics Express, 2015, 8, 033101.	2.4	15
29	Magnetic Field of BG-VG Transition Depending on the Nanorods Shape in <inline-formula> <tex-math notation="TeX">$hbox{BaHfO}_{3}$</tex-math></inline-formula>-Doped <inline-formula> <tex-math notation="TeX">$hbox{SmBa}_{2}hbox{Cu}_{3}hbox{O}_{y}$</tex-math></inline-formula> Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	5
30	Determinant for Self-Organization of BaMO₃ Nanorods Included in Vapor-Phase-Grown <inline-formula> <tex-math notation="LaTeX">$mbox{REBa}_{2}mbox{Cu}_{3}mbox{O}_{y}$</tex-math></inline-formula> Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	13
31	Enhancement of critical current density in the force-free sate of BaHfO3-doped multilayered SmBa2Cu3Oyfilm. Japanese Journal of Applied Physics, 2014, 53, 078003.	1.5	14
32	BaMO₃(M=Zr, Hf, Sn) material dependence ofT_creduction in BaMO₃-doped SmBa₂Cu₃O_y, films. Journal of Physics: Conference Series, 2014, 507, 022043.	0.4	9
33	The influence of the geometric characteristics of nanorods on the flux pinning in high-performance BaMO₃-doped SmBa₂Cu₃O_yfilms (M = Hf, Sn). Superconductor Science and Technology, 2014, 27, 065001.	3.5	57
34	Flux pinning properties and microstructures of a SmBa2Cu3Oyfilm with high number density of BaHfO3nanorods deposited by using low-temperature growth technique. Japanese Journal of Applied Physics, 2014, 53, 090304.	1.5	24
35	Flux Pinning Properties at Low Temperatures in $ hbox{BaHfO}_{3}$ Doped $hbox{SmBa}_{2}hbox{Cu}_{3} hbox{O}_{y}$ Films. IEEE Transactions on Applied Superconductivity, 2013, 23, 8001104-8001104.	1.7	28
36	Superconducting Property of BaHfO3 Doped SmBa2Cu3Oy Films Prepared by Alternating-targets Technique on IBAD-MgO. Physics Procedia, 2013, 45, 149-152.	1.2	2

#	Article	IF	Citations
37	High critical current density and its magnetic fields dependence in (Sm,Eu,Gd)Ba2Cu3Oy films by using multiple targets. Physica C: Superconductivity and Its Applications, 2013, 484, 130-133.	1.2	2
38	Flux Pinning Properties and Microstructures of Multilayered Films Consisting of Sm1.04Ba1.96Cu3OyLayers and BaSnO3-Doped Sm1.04Ba1.96Cu3OyLayers. Japanese Journal of Applied Physics, 2013, 52, 010201.	1.5	13