Takio Kizu

List of Publications by Year
in descending order

27 papers	440 citations	840119 11 h-index	713013 21 g-index
28 all docs	28 docs citations	28 times ranked	450 citing authors

#	Article	IF	Citations
1	Si-doping effect on solution-processed In-O thin-film transistors. Materials Research Express, 2019, 6, 026410.	0.8	2
2	Investigation on solution-processed In-Si-O thin-film transistor via spin-coating method. , 2018, , .		1
3	Effect of carbon doping on threshold voltage and mobility of In-Si-O thin-film transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 061206.	0.6	5
4	Amorphous In-Si-O Films Fabricated via Solution Processing. Journal of Electronic Materials, 2017, 46, 3610-3614.	1.0	7
5	Correlation between active layer thickness and ambient gas stability in IGZO thin-film transistors. Journal Physics D: Applied Physics, 2017, 50, 025102.	1.3	4
6	Radial Interference Contrast in in-situ SEM Observation of Metal Oxide Semiconductor Film Crystallization. Microscopy and Microanalysis, 2017, 23, 1512-1513.	0.2	1
7	Phase transitions from semiconductive amorphous to conductive polycrystalline in indium silicon oxide thin films. Applied Physics Letters, 2016, 109, .	1.5	13
8	Homogeneous double-layer amorphous Si-doped indium oxide thin-film transistors for control of turn-on voltage. Journal of Applied Physics, 2016, 120, .	1.1	19
9	High-performance non-volatile field-effect transistor memories using an amorphous oxide semiconductor and ferroelectric polymer. Journal of Materials Chemistry C, 2016, 4, 7917-7923.	2.7	15
10	Codoping of zinc and tungsten for practical high-performance amorphous indium-based oxide thin film transistors. Journal of Applied Physics, 2015, 118, .	1.1	23
11	Influence of Al2O3 layer insertion on the electrical properties of Ga-In-Zn-O thin-film transistors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	6
12	Dopant selection for control of charge carrier density and mobility in amorphous indium oxide thin-film transistors: Comparison between Si- and W-dopants. Applied Physics Letters, 2015, 106, .	1.5	56
13	Suppression of excess oxygen for environmentally stable amorphous In-Si-O thin-film transistors. Applied Physics Letters, 2015, 106, .	1.5	25
14	Reduction of the interfacial trap density of indium-oxide thin film transistors by incorporation of hafnium and annealing process. AIP Advances, 2015, 5, .	0.6	16
15	Stable amorphous In2O3-based thin-film transistors by incorporating SiO2 to suppress oxygen vacancies. Applied Physics Letters, 2014, 104, .	1.5	83
16	Low-temperature processable amorphous In-W-O thin-film transistors with high mobility and stability. Applied Physics Letters, 2014, 104, 152103.	1.5	79
17	Controllable film densification and interface flatness for high-performance amorphous indium oxide based thin film transistors. Applied Physics Letters, 2014, 105, .	1.5	9
18	Self-formed copper oxide contact interlayer for high-performance oxide thin film transistors. Applied Physics Letters, 2014, 105, .	1.5	13

#	Article	IF	Citations
19	Effect of Inrush Current on Carbon Nanotube Synthesis from Xylene by Liquid-Phase Pulsed Arc Method Using Copper Electrodes. E-Journal of Surface Science and Nanotechnology, 2013, 11, 8-12.	0.1	3
20	Influence of Pulse Condition in the Synthesis of Carbon Nanotubes Containing Tungsten by Arc Discharge in Water. Japanese Journal of Applied Physics, 2012, 51, 125102.	0.8	1
21	One-Step Synthesis of Metal-Encapsulated Carbon Nanotubes by Pulsed Arc Discharge in Water. E-Journal of Surface Science and Nanotechnology, 2012, 10, 414-416.	0.1	5
22	Influence of Pulse Condition in the Synthesis of Carbon Nanotubes Containing Tungsten by Arc Discharge in Water. Japanese Journal of Applied Physics, 2012, 51, 125102.	0.8	1
23	Molar Concentration Dependence of Sucrose Solution in Carbon Nanotube Synthesis by Liquid-Phase Arc Discharge. E-Journal of Surface Science and Nanotechnology, 2011, 9, 215-218.	0.1	4
24	Oxidation of Carbon Nanotubes by Combination of Ultraviolet Irradiation and Hydrogen Peroxide Treatment for Environmental Benefit. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2010, 61, 384-385.	0.1	1
25	Catalytic graphitization of an amorphous carbon film under focused electron beam irradiation due to the presence of sputtered nickel metal particles. Carbon, 2010, 48, 2997-2999.	5.4	32
26	Carbon Nanotube Synthesis by Arc Discharge in Water Using Metal Cathodes. E-Journal of Surface Science and Nanotechnology, 2010, 8, 203-206.	0.1	4
27	Carbon Nanomaterial Synthesis from Sucrose Solution without Using Graphite Electrodes. Chemistry Letters, 2007, 36, 1426-1427.	0.7	9