Masao Isomura

List of Publications by Year
in descending order

23 papers	265 citations	1163117 8 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	232 citing authors

#	Article	IF	Citations
1	Influence of alloy composition on carrier transport and solar cell properties of hydrogenated microcrystalline silicon-germanium thin films. Applied Physics Letters, 2006, 89, 142115.	3.3	69
2	Compact TiO₂/Anatase TiO₂ Single-Crystalline Nanoparticle Electron-Transport Bilayer for Efficient Planar Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 12070-12078.	6.7	39
3	Oblique Electrostatic Inkjet-Deposited TiO2 Electron Transport Layers for Efficient Planar Perovskite Solar Cells. Scientific Reports, 2019, 9, 19494.	3.3	29
4	A single-phase brookite TiO₂ nanoparticle bridge enhances the stability of perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 2009-2017.	4.9	25
5	Effect of illumination-induced space charge on photocarrier transport in hydrogenated microcrystalline Si1âˆ’xGex p-i-n solar cells. Applied Physics Letters, 2007, 91, 102111.	3.3	21
6	Formation of polycrystalline SiGe thin films by the RF magnetron sputtering method with Arâ€“H2 mixture gases. Vacuum, 2006, 80, 712-715.	3.5	18
7	Polycrystalline silicon germanium thin films prepared by aluminumâ€induced crystallization. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 617-620.	1.8	14
8	Microcrystalline siliconâ€“germanium thin films prepared by the chemical transport process using hydrogen radicals. Journal of Non-Crystalline Solids, 2008, 354, 2109-2112.	3.1	10
9	Crystalline growth of germanium thin films on single crystal silicon substrates by solid phase crystallization. Journal of Non-Crystalline Solids, 2012, 358, 2166-2170.	3.1	8
10	Epitaxial growth of germanium thin films on crystal silicon substrates by solid phase crystallization. Japanese Journal of Applied Physics, 2015, 54, 04DR08.	1.5	8
11	Preferential crystal growth of germanium by solid phase crystallization. Canadian Journal of Physics, 2014, 92, 576-581.	1.1	5
12	Formation of crystalline silicon-germanium thin films on silicon substrates by solid phase crystallization. Thin Solid Films, 2018, 645, 203-208.	1.8	5
13	Solid phase crystallization of germanium films on crystalline silicon. Thin Solid Films, 2017, 621, 207-210.	1.8	4
14	Atmospheric Pressure Linear Microwave Plasma for Surface Treatment of Materials. Journal of the Vacuum Society of Japan, 2017, 60, 105-111.	0.3	4
15	Crystallization of siliconâ€“germanium by aluminum-induced layer exchange. Japanese Journal of Applied Physics, 2018, 57, 025503.	1.5	3
16	Micro-crystalline silicon-germanium thin films prepared by the multi-target RF sputtering system. Materials Research Society Symposia Proceedings, 2005, 862, 621.	0.1	2
17	Development of flexible perovskite solar cells by the low-temperature fabrication of TiO₂ electron transport layers. Journal of Advanced Science, 2020, 32, n/a.	0.1	1
18	Effects of the hydrogen plasma treatment on the thin-film polycrystalline SiGe. , 2006, , .		0

#	Article	IF	Citations
19	Micro-Crystalline Silicon Thin Films Deposited by the Reactive RF Magnetron Sputtering System. , 2006, , .		0
20	Highly Efficient Planar Perovskite Solar Cells Exploiting a Compact TiO<inf>2</inf>/Anatase TiO<inf>2</inf> Single Crystalline Nanoparticles Electron Transport Bilayer. , 2018, , .		0
21	Improvement of dispersibility and film formability of TiO₂ nanoparticles by surfactant modification. Journal of Advanced Science, 2019, 31, n/a.	0.1	0
22	Development of organic-inorganic hybrid perovskite solar cells. Journal of Advanced Science, 2016, 28, n/a.	0.1	0
23	Optimization of Brookite TiO₂ NPs Solution for Preparing the Electron Transport Layer of Flexible Perovskite Solar Cells. Journal of Advanced Science, 2022, 34, n/a.	0.1	0