Takehiko Nagai

List of Publications by Year
in descending order

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29	444	759233 12	713466 21
papers	citations	h-index	g-index

29	29	29	637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of KF Post-Deposition Treatment on the Band Alignment of Epitaxial Cu(In,Ga)Se₂ Heterojunctions. ACS Applied Materials & Interfaces, 2022, 14, 16780-16790.	8.0	3
2	Tunability of the bandgap of SnS by variation of the cell volume by alloying with A.E. elements. Scientific Reports, 2022, 12, 7434.	3.3	9
3	Examination of Suitable Bandgap Grading of Cu(InGa)Se 2 Bottom Absorber Layers for Tandem Cell Application. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000658.	1.8	5
4	Characterization of Surface and Heterointerface of Cu 2 ZnSn 1â€“ x Ge x Se 4 for Solar Cell Applications. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900708.	2.4	7
5	Improving the Open Circuit Voltage through Surface Oxygen Plasma Treatment and 11.7% Efficient Cu₂ZnSnSe₄ Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 13319-13325.	8.0	36
6	Band Alignment of the CdS/Cu₂Zn(Sn_{1â€“x}Ge_x)Se₄ Heterointerface and Electronic Properties at the Cu₂ZnSn_{1â€“x}Ge_x)Se₄ Surface: x = 0, 0.2, and 0.4. ACS Applied Materials & Interfaces, 2019, 11, 4637-4648.	8.0	23
7	Reduced recombination in a surface-sulfurized Cu(InGa)Se₂thin-film solar cell. Japanese Journal of Applied Physics, 2018, 57, 055701.	1.5	9
8	Single-crystal Cu(In,Ga)Se₂solar cells grown on GaAs substrates. Applied Physics Express, 2018, 11, 082302.	2.4	30
9	Band Alignment of CdS/Cu2ZnSnSe4 Heterointerface and Solar Cell Performances. MRS Advances, 2017, 2, 3157-3162.	0.9	3
10	Electronic structures of Cu₂ZnSnSe₄surface and CdS/Cu₂ZnSnSe₄heterointerface. Japanese Journal of Applied Physics, 2017, 56, 065701.	1.5	7
11	Electronic structure of Cu₂ZnSn(S_xSe_{1â^'x})₄ surface and CdS/Cu₂ZnSn(S_xSe_{1â^'x})₄ interface. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, .	0.8	9
12	Influence of hydrogen dilution on a-SiSn:H film growth and solar cell properties. Journal of Non-Crystalline Solids, 2014, 386, 85-89.	3.1	1
13	Semiconducting quantum confined siliconâ€“tin alloyed nanocrystals prepared by ns pulsed laser ablation in water. Nanoscale, 2013, 5, 6725.	5.6	19
14	Improvement of photoconductivity in Silicon Tin (SiSn) thin films. Journal of Non-Crystalline Solids, 2012, 358, 2281-2284.	3.1	10
15	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. Journal of Physical Chemistry C, 2011, 115, 5084-5093.	3.1	67
16	Time-resolved cavity ringdown spectroscopy on nanoparticle generation in a SiH4â€“H2 VHF plasma. Journal of Non-Crystalline Solids, 2008, 354, 2096-2099.	3.1	5
17	Formation of SiH3Radicals and Nanoparticles in SiH4â€“H2Plasmas Observed by Time-Resolved Cavity Ringdown Spectroscopy. Japanese Journal of Applied Physics, 2008, 47, 7032-7043.	1.5	5
18	Time-resolved Cavity Ringdown Spectroscopy as a Monitoring Technique of Nanoparticles in Pulsed VHF Plasmas. Materials Research Society Symposia Proceedings, 2007, 989, 2.	0.1	0

#	Article	IF	Citations
19	Improvement of the Production Yield of Spherical Si by Optimization of the Seeding Technique in the Dropping Method. Japanese Journal of Applied Physics, 2007, 46, 5695-5700.	1.5	8
20	Characterization of spherical Si by photoluminescence measurement. Journal of Applied Physics, 2007, 101, 103530.	2.5	8
21	Seeding method with silicon powder for the formation of silicon spheres in the drop method. Journal of Applied Physics, 2007, 101, 093505.	2.5	18
22	A concentrator module of spherical Si solar cell. Solar Energy Materials and Solar Cells, 2007, 91, 1805-1810.	6.2	23
23	Study of Spatial Distribution of SiH3Radicals in Very High Frequency Plasma Using Cavity Ringdown Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, 8095-8098.	1.5	7
24	Photoluminescence dynamics of GaN under intense band-to-band and exciton resonant excitation. Physical Review B, 2005, 71, .	3.2	12
25	Band-gap renormalization in highly excited GaN. Applied Physics Letters, 2004, 84, 1284-1286.	3.3	42
26	Free-exciton photoluminescence from cubic CdS films on GaAs substrates. Journal of Luminescence, 2003, 102-103, 604-607.	3.1	4
27	Temperature dependence of free-exciton luminescence in cubic CdS films. Applied Physics Letters, 2003, 82, 388-390.	3.3	30
28	Free excitons in cubic CdS films. Applied Physics Letters, 2002, 80, 267-269.	3.3	20
29	Optical Properties of Cubic CdS. Physica Status Solidi (B): Basic Research, 2002, 229, 611-614.	1.5	24