

Takehiko Nagai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5084-5093.	3.1	67
2	Band-gap renormalization in highly excited GaN. <i>Applied Physics Letters</i> , 2004, 84, 1284-1286.	3.3	42
3	Improving the Open Circuit Voltage through Surface Oxygen Plasma Treatment and 11.7% Efficient Cu ₂ ZnSnSe ₄ Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13319-13325.	8.0	36
4	Temperature dependence of free-exciton luminescence in cubic CdS films. <i>Applied Physics Letters</i> , 2003, 82, 388-390.	3.3	30
5	Single-crystal Cu(In,Ga)Se ₂ solar cells grown on GaAs substrates. <i>Applied Physics Express</i> , 2018, 11, 082302.	2.4	30
6	Optical Properties of Cubic CdS. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 611-614.	1.5	24
7	A concentrator module of spherical Si solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1805-1810.	6.2	23
8	Band Alignment of the CdS/Cu ₂ ZnSn(S _x) ₄ Heterointerface and Electronic Properties at the Cu ₂ ZnSn(S _x) ₄ Surface: $x = 0, 0.2, \text{ and } 0.4$. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4637-4648.	8.0	23
9	Free excitons in cubic CdS films. <i>Applied Physics Letters</i> , 2002, 80, 267-269.	3.3	20
10	Semiconducting quantum confined silicon-tin alloyed nanocrystals prepared by ns pulsed laser ablation in water. <i>Nanoscale</i> , 2013, 5, 6725.	5.6	19
11	Seeding method with silicon powder for the formation of silicon spheres in the drop method. <i>Journal of Applied Physics</i> , 2007, 101, 093505.	2.5	18
12	Photoluminescence dynamics of GaN under intense band-to-band and exciton resonant excitation. <i>Physical Review B</i> , 2005, 71, .	3.2	12
13	Improvement of photoconductivity in Silicon Tin (SiSn) thin films. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2281-2284.	3.1	10
14	Reduced recombination in a surface-sulfurized Cu(InGa)Se ₂ thin-film solar cell. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 055701.	1.5	9
15	Electronic structure of Cu ₂ ZnSn(S _x) ₄ surface and CdS/Cu ₂ ZnSn(S _x) ₄ interface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2017, 14, .	0.8	9
16	Tunability of the bandgap of SnS by variation of the cell volume by alloying with A.E. elements. <i>Scientific Reports</i> , 2022, 12, 7434.	3.3	9
17	Improvement of the Production Yield of Spherical Si by Optimization of the Seeding Technique in the Dropping Method. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5695-5700.	1.5	8
18	Characterization of spherical Si by photoluminescence measurement. <i>Journal of Applied Physics</i> , 2007, 101, 103530.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Study of Spatial Distribution of SiH ₃ Radicals in Very High Frequency Plasma Using Cavity Ringdown Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, 8095-8098.	1.5	7
20	Electronic structures of Cu ₂ ZnSnSe ₄ surface and CdS/Cu ₂ ZnSnSe ₄ heterointerface. Japanese Journal of Applied Physics, 2017, 56, 065701.	1.5	7
21	Characterization of Surface and Heterointerface of Cu ₂ ZnSn _{1-x} Ge _x Se ₄ for Solar Cell Applications. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900708.	2.4	7
22	Time-resolved cavity ringdown spectroscopy on nanoparticle generation in a SiH ₄ /H ₂ VHF plasma. Journal of Non-Crystalline Solids, 2008, 354, 2096-2099.	3.1	5
23	Formation of SiH ₃ Radicals and Nanoparticles in SiH ₄ /H ₂ Plasmas Observed by Time-Resolved Cavity Ringdown Spectroscopy. Japanese Journal of Applied Physics, 2008, 47, 7032-7043.	1.5	5
24	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
25	Free-exciton photoluminescence from cubic CdS films on GaAs substrates. Journal of Luminescence, 2003, 102-103, 604-607.	3.1	4
26	Band Alignment of CdS/Cu ₂ ZnSnSe ₄ Heterointerface and Solar Cell Performances. MRS Advances, 2017, 2, 3157-3162.	0.9	3
27	Impacts of KF Post-Deposition Treatment on the Band Alignment of Epitaxial Cu(In,Ga)Se ₂ Heterojunctions. ACS Applied Materials & Interfaces, 2022, 14, 16780-16790.	8.0	3
28	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
29	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