Kazuyoshi Nakada

List of Publications by Year
in descending order

33 papers	335 citations	759233 12 h-index	888059 17 g-index
33 all docs	33 docs citations	33 times ranked	367 citing authors

#	Article	IF	Citations
1	Effect of Cuâ€deficient layer formation in Cu(In,Ga)Se₂ solarâ€cell performance. Progress in Photovoltaics: Research and Applications, 2018, 26, 291-302.	8.1	39
2	Amorphous silicon oxide passivation films for silicon heterojunction solar cells studied by hydrogen evolution. Japanese Journal of Applied Physics, 2014, 53, 04ER13.	1.5	28
3	Correlation between carrier recombination and valence band offset effect of graded Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2019, 201, 110070.	6.2	27
4	Interfacial quality improvement of Cu(In,Ga)Se₂ thin film solar cells by Cu-depletion layer formation. Applied Physics Express, 2016, 9, 092301.	2.4	23
5	Fabrication and characterization of sputtered Cu2O:N/c-Si heterojunction diode. Applied Physics Letters, 2017, 111, .	3.3	18
6	Accurate control and characterization of Cu depletion layer for highly efficient Cu(In,Ga)Se₂ solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 171-178.	8.1	18
7	Conduction band offset engineering in wide-bandgap Ag(In,Ga)Se₂solar cells by hybrid buffer layer. Japanese Journal of Applied Physics, 2017, 56, 08MC09.	1.5	16
8	Enhancement of Cu(In,Ga)Se₂solar cells efficiency by controlling the formation of Cu-deficient layer. Japanese Journal of Applied Physics, 2020, 59, 041003.	1.5	15
9	Control of valence band offset of Cu(In,Ga)Se₂solar cells with single-graded band profile. Japanese Journal of Applied Physics, 2017, 56, 062301.	1.5	14
10	Highâ€performance aâ€Si_{1â€“<i>x</i>}O<i>_x</i>:H/câ€Si heterojunction solar cells realized by the aâ€Si:H/aâ€Si_{1â€“<i>x</i>}O<i>_x</i>:H stack buffer layer. Physica Status Solidi - Rapid Research Letters, 2015, 9, 225-229.	2.4	13
11	Examination of a Cu-Deficient Layer on Cu(In, Ga)Se₂ Films Fabricated by a Three-Stage Process for Highly Efficient Solar Cells. ACS Applied Energy Materials, 2019, 2, 5103-5108.	5.1	13
12	Effect of RF power on the properties of intrinsic hydrogenated amorphous silicon passivation layer deposited by facing target sputtering. Applied Physics Express, 2018, 11, 031301.	2.4	12
13	Characterization of Interface Between Accurately Controlled Cu-Deficient Layer and Cu(In,Ga)Se2 Absorber for Cu(In,Ga)Se2 Solar Cells. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800129.	2.4	11
14	Silicon heterojunction solar cells with high surface passivation quality realized using amorphous silicon oxide films with epitaxial phase. Japanese Journal of Applied Physics, 2015, 54, 052303.	1.5	9
15	Application of n-type microcrystalline silicon oxide as back reflector of crystalline silicon heterojunction solar cells. Japanese Journal of Applied Physics, 2015, 54, 082301.	1.5	9
16	Crystal growth mechanism of Cu₂ZnSn(S,Se)₄thin films fabricated from nanoparticles. Japanese Journal of Applied Physics, 2017, 56, 035502.	1.5	9
17	Effect of an additional Cu-deficient layer deposition on alkali treated Cu(In,Ga)Se2 solar cells deposited at low temperature. Solar Energy Materials and Solar Cells, 2018, 184, 67-72.	6.2	9
18	Control of Donor Concentration in <italic>n</italic>-Type Buffer Layer for High-Efficiency Cu(In,Ga)Se ₂ Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1841-1846.	2.5	8

#	Article	IF	Citations
19	Impact of roll-over-shaped currentâ€“voltage characteristics and device properties of Ag(In,Ga)Se₂ solar cells. Japanese Journal of Applied Physics, 2017, 56, 012302.	1.5	7
20	Efficiency enhancement of flexible Cu(In,Ga)Se₂solar cells deposited on polyimide-coated soda lime glass substrate by alkali treatment. Japanese Journal of Applied Physics, 2017, 56, 08MC15.	1.5	6
21	Improvement of Cu(In,Ga)Se₂ solar cell performance by thiourea treatment. Japanese Journal of Applied Physics, 2020, 59, 031005.	1.5	5
22	Effect of Superimposed DC Power on the Properties of Intrinsic Hydrogenated Amorphous Silicon Passivation Layer Deposited by RF Facing Target Sputtering. IEEE Journal of Photovoltaics, 2020, 10, 927-934.	2.5	4
23	Impact of bilayer structures on the surface passivation quality of highâ€rateâ€sputtered hydrogenated amorphous silicon for silicon heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 971-976.	8.1	4
24	Effects of epitaxial growth on the optimum condition of intrinsic amorphous silicon oxide buffer layers for silicon heterojunction solar cells. Thin Solid Films, 2017, 628, 214-220.	1.8	3
25	Improvement of the efficiency of Cu₂ZnSn(S,Se)₄ solar cells fabricated from nanoparticles by control of sintering heating rate. Japanese Journal of Applied Physics, 2019, 58, 051002.	1.5	3
26	Temperature-dependent minority carrier lifetime of crystalline silicon wafers passivated by high quality amorphous silicon oxide. Japanese Journal of Applied Physics, 2016, 55, 04ES04.	1.5	2
27	Silicon Heterojunction Solar Cells with Cu<inf>2</inf>O:N as p-type Layer. , 2018, , .		2
28	Cathode luminescence analysis of Cu(In,Ga)Se2 solar cells treated with thiourea solution. Japanese Journal of Applied Physics, 2021, 60, 031001.	1.5	2
29	Benefits of Low Electron-Affinity Material as the N-Type Layer for Cu(In,Ga)S2 Solar Cell. Energies, 2022, 15, 4.	3.1	2
30	Improvement of Cu(In, Ga)Se<inf>2</inf> photovoltaic performance by adding Cu-poor compounds Cu(In, Ga)<inf>3</inf>Se<inf>5</inf> at Cu(In, Ga)Se<inf>2</inf>/CdS interface. , 2016, , .		1
31	Silicon Heterojunction Solar Cell with Intrinsic Hydrogenated Amorphous Silicon Layer Deposited by Facing Target Sputtering. , 2018, , .		1
32	Effect of annealing after CdS layer deposition on Cu2ZnSn(S,Se)4 solar cells fabricated from nanoparticles. Japanese Journal of Applied Physics, 2018, 57, 08RC06.	1.5	1
33	Characterization of Interface Between Accurately Controlled Cuâ€Deficient Layer and Cu(In,Ga)Se₂ Absorber for Cu(In,Ga)Se₂ Solar Cells (Phys. Status Solidi RRL) Tj ETQq1 1 0.784314 rg BT /Ov	2.4	1