

# Jakapan Chantana

## List of Publications by Year in descending order

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115  
papers

2,319  
citations

257450

24  
h-index

289244

40  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gaussian distribution of average photon energy and spectral gain and loss of several-type photovoltaic modules at different outdoor sites around the world. Optics Communications, 2022, 505, 127516.	2.1	4
2	Physical and chemical aspects at the interface and in the bulk of $\text{CuInSe}_2$ -based thin-film photovoltaics. Physical Chemistry Chemical Physics, 2022, 24, 1262-1285.	2.8	21
3	$[\text{Ga}]/([\text{Ga}]+[\text{In}])$ profile controlled through Ga flux for performance improvement of $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells on flexible stainless steel substrates. Journal of Alloys and Compounds, 2022, 899, 163276.	5.5	4
4	Theoretical impacts of single band gap grading of perovskite and valence band offset of perovskite/hole transport layer interface on its solar cell performances. Solar Energy, 2022, 231, 684-693.	6.1	3
5	Mg Content Impact of a Sputtered $\text{Zn}_{1-x}\text{Mg}_x\text{O:Al}$ Transparent Electrode on Photovoltaic Performances of Flexible, Cd-Free, and All-Dry-Process $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ Solar Cells. ACS Applied Energy Materials, 2022, 5, 2270-2278.	5.1	5
6	Formation of Native $\text{In}_x(\text{O,S})_y$ Buffer through Surface Oxidation of $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ Absorber for Significantly Enhanced Conversion Efficiency of Flexible and Cd-Free Solar Cell by All-Dry Process. Solar Rrl, 2022, 6, .	5.8	6
7	Derived Conduction Band Offset by Photoelectron Yield Spectroscopy and Its Quantitative Number for Efficiency Enhancement of Flexible, Cd-Free, and All-Dry Process $\text{Zn}_{1-x}\text{Mg}_x\text{O:Al/Zn}_{1-x}\text{Mg}_x\text{O/Cu}(\text{In,Ga})(\text{S,Se})_2$ Solar Cells. ACS Applied Electronic Materials, 2022, 4, 2077-2085.	4.3	5
8	Estimation of annual energy generation of perovskite/crystalline Si tandem solar cells with different configurations in central part of Japan. Renewable Energy, 2022, 195, 896-905.	8.9	1
9	Spectral gain and loss of different-type photovoltaic modules through average photon energy of various locations in Japan. Solar Energy, 2021, 214, 1-10.	6.1	8
10	Thermodynamic limit of tandem solar cells under different solar spectra and their perovskite top solar cell. Optical Materials, 2021, 113, 110819.	3.6	10
11	Impact of Auger recombination on performance limitation of perovskite solar cell. Solar Energy, 2021, 217, 342-353.	6.1	27
12	Device design for high-performance bifacial $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells under front and rear illuminations. Solar Energy, 2021, 218, 76-84.	6.1	13
13	Optimized bandgaps of top and bottom subcells for bifacial two-terminal tandem solar cells under different back irradiances. Solar Energy, 2021, 220, 163-174.	6.1	12
14	Peeling Technique by Two-Dimensional $\text{MoSe}_2$ Atomic Layer for Bifacial-Flexible $\text{Cu}(\text{In, Ga})\text{Se}_2$ solar cells. , 2021, , .		0
15	Accurate estimation of outdoor performance of photovoltaic module through spectral mismatch correction factor under wide range of solar spectrum. Current Applied Physics, 2021, 28, 59-71.	2.4	3
16	Effect of an Ohmic back contact on the stability of $\text{Cu}(\text{In,Ga})\text{Se}_2$ -based flexible bifacial solar cells. Applied Physics Letters, 2021, 119, .	3.3	4
17	Silver-alloyed wide-gap $\text{CuGaSe}_2$ solar cells. Solar Energy, 2021, 230, 509-514.	6.1	7
18	Impact of average photon energy on spectral gain and loss of various-type PV technologies at different locations. Renewable Energy, 2020, 145, 1317-1324.	8.9	19

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19	Description of short circuit current of outdoor photovoltaic modules by multiple regression analysis under various solar irradiance levels. Renewable Energy, 2020, 147, 895-902.	8.9	9
20	22% efficient Cd-free Cu(In,Ga)(S,Se) <sub>2</sub> solar cell by all-dry process using Zn <sub>0.8</sub> Mg <sub>0.2</sub> O and Zn <sub>0.9</sub> Mg <sub>0.1</sub> O:B as buffer and transparent conductive oxide layers. Progress in Photovoltaics: Research and Applications, 2020, 28, 79-89.	8.1	17
21	Influence of halogen content in mixed halide perovskite solar cells on cell performances through device simulation. Solar Energy Materials and Solar Cells, 2020, 205, 110252.	6.2	15
22	Investigation of carrier recombination of Na-doped Cu <sub>2</sub> SnS <sub>3</sub> solar cell for its improved conversion efficiency of 5.1%. Solar Energy Materials and Solar Cells, 2020, 206, 110261.	6.2	46
23	Theoretical analysis of band alignment at back junction in Sn-Ge perovskite solar cells with inverted p-i-n structure. Solar Energy Materials and Solar Cells, 2020, 206, 110268.	6.2	66
24	Influence of Ge/(Ge+Sn) composition ratio in Cu <sub>2</sub> Sn <sub>1-x</sub> GexS <sub>3</sub> thin-film solar cells on their physical properties and photovoltaic performances. Solar Energy Materials and Solar Cells, 2020, 208, 110382.	6.2	9
25	Superstrate-type flexible and bifacial Cu(In,Ga)Se <sub>2</sub> thin-film solar cells with In <sub>2</sub> O <sub>3</sub> :SnO <sub>2</sub> back contact. Solar Energy, 2020, 211, 725-731.	6.1	17
26	Application of Two-Dimensional MoSe <sub>2</sub> Atomic Layers to the Lift-Off Process for Producing Light-Weight and Flexible Bifacial Cu(In, Ga)Se <sub>2</sub> Solar Cells. ACS Applied Energy Materials, 2020, 3, 9504-9508.	5.1	17
27	Bismuth-doped Cu(In,Ga)Se <sub>2</sub> solar cell on flexible stainless steel substrate: Examination of bismuth-doping effectiveness under different substrate temperatures on photovoltaic performances. Solar Energy, 2020, 208, 20-30.	6.1	6
28	Interfacial modification mechanism by aging effect for high-performance Cd-free and all-dry process Cu(In,Ga)(S,Se) <sub>2</sub> solar cells. Applied Physics Letters, 2020, 117, .	3.3	8
29	Back-contact barrier analysis to develop flexible and bifacial Cu(In,Ga)Se <sub>2</sub> solar cells using transparent conductive In <sub>2</sub> O <sub>3</sub> : SnO <sub>2</sub> thin films. Solar Energy, 2020, 211, 1311-1317.	6.1	18
30	Utilization of spectral mismatch correction factor for estimation of precise outdoor performance under different average photon energies. Renewable Energy, 2020, 157, 173-181.	8.9	4
31	Manipulation of [Ga]/([Ga]+[In]) profile in 1.4-μm-thick Cu(In,Ga)Se <sub>2</sub> thin film on flexible stainless steel substrate for enhancing short-circuit current density and conversion efficiency of its solar cell. Solar Energy, 2020, 204, 231-237.	6.1	7
32	Impact of Urbach energy on open-circuit voltage deficit of thin-film solar cells. Solar Energy Materials and Solar Cells, 2020, 210, 110502.	6.2	107
33	A review of Sb <sub>2</sub> Se <sub>3</sub> photovoltaic absorber materials and thin-film solar cells. Solar Energy, 2020, 201, 227-246.	6.1	243
34	Fabrication of flexible and bifacial Cu(In,Ga)Se <sub>2</sub> solar cell with superstrate-type structure using a lift-off process. Solar Energy, 2020, 199, 819-825.	6.1	14
35	Mobility improvement of Zn <sub>1-x</sub> MgxO:Al prepared under room temperature by co-sputtering through optimizations of Al and Mg contents. Materials Science in Semiconductor Processing, 2020, 109, 104921.	4.0	13
36	Effect of Alkali Treatment on Photovoltaic Performances of Cu(In,Ga)(S,Se) <sub>2</sub> Solar Cells and Their Absorber Quality Analyzed by Urbach Energy and Carrier Recombination Rates. ACS Applied Energy Materials, 2020, 3, 1292-1297.	5.1	12

#	ARTICLE	IF	CITATIONS
37	Transparent Electrode and Buffer Layer Combination for Reducing Carrier Recombination and Optical Loss Realizing over a 22%-Efficient Cd-Free Alkaline-Treated Cu(In,Ga)(S,Se) <sub>2</sub> Solar Cell by the All-Dry Process. ACS Applied Materials & Interfaces, 2020, 12, 22298-22307.	8.0	17
38	Zn <sub>1-x</sub> Mg <sub>x</sub> O second buffer layer of Cu <sub>2</sub> Sn <sub>1-x</sub> GexS <sub>3</sub> thin-film solar cell for minimizing carrier recombination and open-circuit voltage deficit. Solar Energy, 2020, 204, 769-776.	6.1	4
39	Examination of Relationship between Urbach Energy and Open-Circuit Voltage Deficit of Flexible Cu(In,Ga)Se <sub>2</sub> Solar Cell for Its Improved Photovoltaic Performance. ACS Applied Energy Materials, 2019, 2, 7843-7849.	5.1	22
40	Aging Effect of a Cu(In,Ga)(S,Se) <sub>2</sub> Absorber on the Photovoltaic Performance of Its Cd-Free Solar Cell Fabricated by an All-Dry Process: Its Carrier Recombination Analysis. Advanced Energy Materials, 2019, 9, 1902869.	19.5	26
41	Application of Al-Doped (Zn, Mg)O on pure-sulfide Cu(In, Ga)S <sub>2</sub> solar cells for enhancement of open-circuit voltage. Solar Energy Materials and Solar Cells, 2019, 202, 110157.	6.2	19
42	Urbach energy of Cu(In,Ga)Se <sub>2</sub> and Cu(In,Ga)(S,Se) <sub>2</sub> absorbers prepared by various methods: Indicator of their quality. Materials Today Communications, 2019, 21, 100652.	1.9	12
43	Characterization of Cd-Free Zn <sub>x</sub> Mg <sub>1-x</sub> O:Al/Zn <sub>x</sub> Mg <sub>1-x</sub> O/Cu(In,Ga)(S,Se) <sub>2</sub> Solar Cells Fabricated by an All Dry Process Using Ultraviolet Light Excited Time-Resolved Photoluminescence. ACS Applied Materials & Interfaces, 2019, 11, 7539-7545.	8.0	18
44	Spectral mismatch correction factor for precise outdoor performance evaluation and description of performance degradation of different-type photovoltaic modules. Solar Energy, 2019, 181, 169-177.	6.1	9
45	Numerical reproduction of a perovskite solar cell by device simulation considering band gap grading. Optical Materials, 2019, 92, 60-66.	3.6	32
46	Characteristics of Zn <sub>1-x</sub> Mg <sub>x</sub> O:B and its application as transparent conductive oxide layer in Cu(In,Ga)(S,Se) <sub>2</sub> solar cells with and without CdS buffer layer. Solar Energy, 2019, 184, 553-560.	6.1	24
47	Structures of Cu(In,Ga)(S,Se) <sub>2</sub> solar cells for minimizing open-circuit voltage deficit: Investigation of carrier recombination rates. Progress in Photovoltaics: Research and Applications, 2019, 27, 630-639.	8.1	13
48	Description of performance degradation of photovoltaic modules using spectral mismatch correction factor under different irradiance levels. Renewable Energy, 2019, 141, 444-450.	8.9	13
49	Description of degradation of output performance for photovoltaic modules by multiple regression analysis based on environmental factors. Optik, 2019, 179, 1063-1070.	2.9	17
50	Micro-scale current path distributions of Zn <sub>1-x</sub> Mg <sub>x</sub> O-coated SnO <sub>2</sub> :F transparent electrodes prepared by sol-gel and sputtering methods in perovskite solar cells. Thin Solid Films, 2019, 669, 455-460.	1.8	5
51	Investigation of correlation between open-circuit voltage deficit and carrier recombination rates in Cu(In,Ga)(S,Se) <sub>2</sub> -based thin-film solar cells. Applied Physics Letters, 2018, 112, 151601.	3.3	32
52	Structural and Solar Cell Properties of a Ag-Containing Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Film Derived from Spray Pyrolysis. ACS Applied Materials & Interfaces, 2018, 10, 5455-5463.	8.0	61
53	Highly Efficient 17.6% Tin-Lead Mixed Perovskite Solar Cells Realized through Spike Structure. Nano Letters, 2018, 18, 3600-3607.	9.1	114
54	20% Efficient Zn <sub>0.9</sub> Mg <sub>0.1</sub> O:Al/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O/Cu(In,Ga)(S,Se) <sub>2</sub> Solar Cell Prepared by All-Dry Process through a Combination of Heat-Light-Soaking and Light-Soaking Processes. ACS Applied Materials & Interfaces, 2018, 10, 11361-11368.	8.0	38

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55	ZnSnP2 solar cell with (Cd,Zn)S buffer layer: Analysis of recombination rates. Solar Energy Materials and Solar Cells, 2018, 174, 412-417.	6.2	18
56	Heterointerface recombination of Cu(In,Ga)(S,Se) <sub>2</sub> -based solar cells with different buffer layers. Progress in Photovoltaics: Research and Applications, 2018, 26, 127-134.	8.1	31
57	Examination of electrical and optical properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O:Al fabricated by radio frequency magnetron co-sputtering. Thin Solid Films, 2018, 646, 105-111.	1.8	10
58	Investigation of near-surface material composition of Cu(In,Ga)Se <sub>2</sub> film after air exposure and chemical etching for its Cd-free solar cell. Japanese Journal of Applied Physics, 2018, 57, 121201.	1.5	3
59	Flexible Cu(In,Ga)Se <sub>2</sub> solar cell with superstrate-type configuration fabricated by a lift-off process. Thin Solid Films, 2018, 662, 110-115.	1.8	13
60	Influences of Fe and absorber thickness on photovoltaic performances of flexible Cu(In,Ga)Se <sub>2</sub> solar cell on stainless steel substrate. Solar Energy, 2018, 173, 126-131.	6.1	10
61	Development of flexible Cd-free Cu(In,Ga)Se <sub>2</sub> solar cell on stainless steel substrate through multi-layer precursor method. Journal of Alloys and Compounds, 2018, 756, 111-116.	5.5	13
62	Colorful, Flexible, and Lightweight Cu(In,Ga)Se <sub>2</sub> Solar Cell by Lift-Off Process With Automotive Painting. IEEE Journal of Photovoltaics, 2018, 8, 1326-1330.	2.5	27
63	Enhancement of photovoltaic performances of Cu(In,Ga)(S,Se) <sub>2</sub> solar cell through combination of heat-light soaking and light soaking processes. Progress in Photovoltaics: Research and Applications, 2018, 26, 868-876.	8.1	26
64	Time-resolved photoluminescence of Cu(In,Ga)(Se,S) <sub>2</sub> thin films and temperature dependent current density-voltage characteristics of their solar cells on surface treatment effect. Current Applied Physics, 2017, 17, 461-466.	2.4	14
65	ZnSnP <sub>2</sub> thin-film solar cell prepared by phosphidation method under optimized Zn/Sn atomic ratio of its absorbing layer. Current Applied Physics, 2017, 17, 557-564.	2.4	12
66	Thin-film Cu(In,Ga)(Se,S) <sub>2</sub> -based solar cell with (Cd,Zn)S buffer layer and Zn <sub>1-x</sub> Mg <sub>x</sub> O window layer. Progress in Photovoltaics: Research and Applications, 2017, 25, 431-440.	8.1	41
67	Na role during sulfurization of NaF/Cu/SnS <sub>2</sub> stacked precursor for formation of Cu <sub>2</sub> SnS <sub>3</sub> thin film as absorber of solar cell. Applied Surface Science, 2017, 414, 140-146.	6.1	29
68	Influence of Cu/(Ge + Sn) composition ratio on photovoltaic performances of Cu <sub>2</sub> Sn <sub>1-x</sub> Ge <sub>x</sub> S <sub>3</sub> solar cell. Solar Energy, 2017, 149, 341-346.	6.1	11
69	Introduction of Na into Cu <sub>2</sub> SnS <sub>3</sub> thin film for improvement of its photovoltaic performances. Solar Energy Materials and Solar Cells, 2017, 168, 207-213.	6.2	49
70	Aluminum-doped Zn <sub>1-x</sub> Mg <sub>x</sub> O as transparent conductive oxide of Cu(In,Ga)(S,Se) <sub>2</sub> -based solar cell for minimizing surface carrier recombination. Progress in Photovoltaics: Research and Applications, 2017, 25, 996-1004.	8.1	39
71	Impact of Heterointerfaces in Solar Cells Using ZnSnP <sub>2</sub> Bulk Crystals. ACS Applied Materials & Interfaces, 2017, 9, 33827-33832.	8.0	13
72	Spectral mismatch correction factor indicated by average photon energy for precise outdoor performance measurements of different-type photovoltaic modules. Renewable Energy, 2017, 114, 567-573.	8.9	19

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73	Influence of Na in Cu <sub>2</sub> SnS <sub>3</sub> film on its physical properties and photovoltaic performances. Thin Solid Films, 2017, 636, 431-437.	1.8	23
74	Solar cells using bulk crystals of rare metal-free compound semiconductor ZnSnP <sub>2</sub> . Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600650.	1.8	15
75	Influences of environmental factors on Si-based photovoltaic modules after longtime outdoor exposure by multiple regression analysis. Renewable Energy, 2017, 101, 10-15.	8.9	23
76	Influence of hetero-interfaces on photovoltaic performance in solar cells based on ZnSnP <sub>2</sub> bulk crystal. , 2017, , .		0
77	Flexible Cu(In,Ga)Se <sub>2</sub> solar cell on stainless steel substrate deposited by multi-layer precursor method: its photovoltaic performance and deep-level defects. Progress in Photovoltaics: Research and Applications, 2016, 24, 990-1000.	8.1	35
78	Trap-assisted recombination for ohmic-like contact at p-type Cu(In,Ga)Se <sub>2</sub> /back n-type TCO interface in superstrate-type solar cell. Journal of Applied Physics, 2016, 120, .	2.5	20
79	Ohmic-like contact formation at the rear interface between Cu(In,Ga)Se <sub>2</sub> and ZnO:Al in a lift-off Cu(In,Ga)Se <sub>2</sub> solar cell. Thin Solid Films, 2016, 616, 17-22.	1.8	10
80	Impact of Precursor Compositions on the Structural and Photovoltaic Properties of Spray-Deposited Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Films. ChemSusChem, 2016, 9, 2414-2420.	6.8	31
81	Influence of minimum position in [Ga]/([Ga]+[In]) profile of Cu(In,Ga)Se <sub>2</sub> on flexible stainless steel substrate on its photovoltaic performances. Solar Energy Materials and Solar Cells, 2016, 157, 750-756.	6.2	12
82	Effects of Na and secondary phases on physical properties of SnS thin film after sulfurization process. Japanese Journal of Applied Physics, 2016, 55, 092301.	1.5	7
83	Annealing effect on Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cell with Zn <sub>1-x</sub> Mg <sub>x</sub> O buffer layer. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2766-2771.	1.8	12
84	Investigation on evaporation and suppression of SnS during fabrication of Cu <sub>2</sub> SnS <sub>3</sub> thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2289-2296.	1.8	31
85	Bismuth-doped Cu(In,Ga)Se <sub>2</sub> absorber prepared by multi-layer precursor method and its solar cell. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 680-683.	0.8	8
86	Numerical analysis of Cu(In,Ga)Se <sub>2</sub> solar cells with high defect density layer at back side of absorber. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 638-642.	0.8	4
87	Influence of conduction band minimum difference between transparent conductive oxide and absorber on photovoltaic performance of thin-film solar cell. Japanese Journal of Applied Physics, 2015, 54, 032301.	1.5	23
88	Application of multi-buffer layer of (Zn,Mg)O/CdS in Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells. Current Applied Physics, 2015, 15, 383-388.	2.4	18
89	Effect of ammonia etching on structural and electrical properties of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> absorbers. Applied Surface Science, 2015, 353, 209-213.	6.1	1
90	Evaluation of sputtering damage in Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells with CdS and (Cd,Zn)S buffer layers by photoluminescence measurement. Japanese Journal of Applied Physics, 2015, 54, 042302.	1.5	7



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91	Impact of growth temperature on the properties of SnS film prepared by thermal evaporation and its photovoltaic performance. Current Applied Physics, 2015, 15, 897-901.	2.4	98
92	Physical properties of Cu(In,Ga)Se <sub>2</sub> film on flexible stainless steel substrate for solar cell application: A multi-layer precursor method. Solar Energy Materials and Solar Cells, 2015, 143, 510-516.	6.2	13
93	Estimation of open-circuit voltage of Cu(In,Ga)Se <sub>2</sub> solar cells before cell fabrication. Renewable Energy, 2015, 76, 575-581.	8.9	8
94	Controlled back slope of Ga/(In+Ga) profile in Cu(In,Ga)Se <sub>2</sub> absorber fabricated by multi layer precursor method for improvement of its photovoltaic performance. Solar Energy Materials and Solar Cells, 2015, 133, 223-228.	6.2	21
95	Raman scattering peak position of Cu(In,Ga)Se <sub>2</sub> film to predict its near-surface [Ga] / ([Ga] + [In]) and open-circuit voltage. Thin Solid Films, 2015, 582, 7-10.	1.8	5
96	Impact of annealing treatment before buffer layer deposition on Cu <sub>2</sub> ZnSn(S,Se) solar cells. Thin Solid Films, 2015, 582, 151-153.	1.8	33
97	Uniqueness verification of direct solar spectral index for estimating outdoor performance of concentrator photovoltaic systems. Renewable Energy, 2015, 75, 762-766.	8.9	32
98	Sputtered (Zn,Mg)O buffer layer for band offset control in Cu <sub>2</sub> ZnSn(S,Se) solar cells. Japanese Journal of Applied Physics, 2014, 53, 106502.	1.5	24
99	Evaluation of junction quality of buffer-free Zn(O,S):Al/Cu(In,Ga)Se <sub>2</sub> thin-film solar cells. Applied Physics Express, 2014, 7, 125503.	2.4	7
100	Multi layer precursor method for Cu(In,Ga)Se <sub>2</sub> solar cells fabricated on flexible substrates. Japanese Journal of Applied Physics, 2014, 53, 05FW03.	1.5	7
101	Post annealing effect on buffer-free CuInS <sub>2</sub> solar cells with transparent conducting Zn <sub>1-x</sub> Mg <sub>x</sub> O:Al films. Japanese Journal of Applied Physics, 2014, 53, 05FW04.	1.5	2
102	Impact of Ga/(In + Ga) profile in Cu(In,Ga)Se <sub>2</sub> prepared by multi-layer precursor method on its cell performance. Thin Solid Films, 2014, 556, 499-502.	1.8	16
103	Investigation of Cu(In,Ga)Se <sub>2</sub> absorber by time-resolved photoluminescence for improvement of its photovoltaic performance. Solar Energy Materials and Solar Cells, 2014, 130, 567-572.	6.2	32
104	Effect of crystal orientation in Cu(In,Ga)Se <sub>2</sub> fabricated by multi-layer precursor method on its cell performance. Applied Surface Science, 2014, 314, 845-849.	6.1	5
105	Optimum bandgap profile analysis of Cu(In,Ga)Se <sub>2</sub> solar cells with various defect densities by SCAPS. Japanese Journal of Applied Physics, 2014, 53, 04ER14.	1.5	33
106	Relationship between open-circuit voltage in Cu(In,Ga)Se <sub>2</sub> solar cell and peak position of (220/204) preferred orientation near its absorber surface. Applied Physics Letters, 2013, 103, .	3.3	10
107	Determination of open-circuit voltage in Cu(In,Ga)Se <sub>2</sub> solar cell by averaged Ga/(In+Ga) near its absorber surface. Journal of Applied Physics, 2013, 114, 084501.	2.5	17
108	Effect of thermal annealing and hydrogen-plasma treatment in boron-doped microcrystalline silicon. Journal of Non-Crystalline Solids, 2012, 358, 1966-1969.	3.1	5

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109	Localized surface plasmon enhanced microcrystalline silicon solar cells. Journal of Non-Crystalline Solids, 2012, 358, 2319-2323.	3.1	18
110	Importance of Starting Procedure for Film Growth in Substrate-Type Microcrystalline-Silicon Solar Cells. Japanese Journal of Applied Physics, 2011, 50, 045806.	1.5	3
111	The relationship between $L_{\{m H\}_{\{m \alpha\}}}/(L_{\{m SiH\}})^2$ and crystalline volume fraction in microcrystalline silicon growth. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 587-590.	1.8	2
112	Gas temperature control in VHF-PECVD process for high rate ( $>5$ nm/s) growth of microcrystalline silicon thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 521-524.	0.8	10
113	Highly Decorative, Lightweight Flexible Solar Cells for Automotive Applications. , 0, , .		2
114	Tunable Conduction Band $\text{In}^{\sim}\text{Zn}^{\sim}\text{O}$ -based Transparent Conductive Oxide Deposited at Room Temperature. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	1
115	Position Influence of Sputtered $\text{Zn}_{1-x}\text{Mg}_x\text{O}/\text{Zn}_{1-x}\text{Mg}_x\text{O}:\text{Al}$ Layers in Flexible and Cd-Free $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ Solar Cells. ACS Applied Materials & Interfaces. 0, , .	8.0	1