

Jakapan Chantana

List of Publications by Year in descending order

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115
papers

2,319
citations

257101

24
h-index

288905

40
g-index

115
all docs

115
docs citations

115
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of Sb ₂ Se ₃ photovoltaic absorber materials and thin-film solar cells. <i>Solar Energy</i> , 2020, 201, 227-246.	2.9	243
2	Highly Efficient 17.6% Tin-Lead Mixed Perovskite Solar Cells Realized through Spike Structure. <i>Nano Letters</i> , 2018, 18, 3600-3607.	4.5	114
3	Impact of Urbach energy on open-circuit voltage deficit of thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 210, 110502.	3.0	107
4	Impact of growth temperature on the properties of SnS film prepared by thermal evaporation and its photovoltaic performance. <i>Current Applied Physics</i> , 2015, 15, 897-901.	1.1	98
5	Theoretical analysis of band alignment at back junction in Sn-Ge perovskite solar cells with inverted p-i-n structure. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110268.	3.0	66
6	Structural and Solar Cell Properties of a Ag-Containing Cu ₂ ZnSnS ₄ Thin Film Derived from Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5455-5463.	4.0	61
7	Introduction of Na into Cu ₂ SnS ₃ thin film for improvement of its photovoltaic performances. <i>Solar Energy Materials and Solar Cells</i> , 2017, 168, 207-213.	3.0	49
8	Investigation of carrier recombination of Na-doped Cu ₂ SnS ₃ solar cell for its improved conversion efficiency of 5.1%. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110261.	3.0	46
9	Thin-film Cu(In,Ga)(Se,S) ₂ -based solar cell with (Cd,Zn)S buffer layer and Zn _{1-x} Mg _x O window layer. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 431-440.	4.4	41
10	Aluminum-doped Zn _{1-x} Mg _x O as transparent conductive oxide of Cu(In,Ga)(S,Se) ₂ -based solar cell for minimizing surface carrier recombination. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 996-1004.	4.4	39
11	20% Efficient Zn _{0.9} Mg _{0.1} O:Al/Zn _{0.8} Mg _{0.2} O/Cu(In,Ga)(S,Se) ₂ Solar Cell Prepared by All-Dry Process through a Combination of Heat-Light-Soaking and Light-Soaking Processes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11361-11368.	4.0	38
12	Flexible Cu(In,Ga)Se ₂ solar cell on stainless steel substrate deposited by multi-layer precursor method: its photovoltaic performance and deep-level defects. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 990-1000.	4.4	35
13	Optimum bandgap profile analysis of Cu(In,Ga)Se ₂ solar cells with various defect densities by SCAPS. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04ER14.	0.8	33
14	Impact of annealing treatment before buffer layer deposition on Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Thin Solid Films</i> , 2015, 582, 151-153.	0.8	33
15	Investigation of Cu(In,Ga)Se ₂ absorber by time-resolved photoluminescence for improvement of its photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 567-572.	3.0	32
16	Uniqueness verification of direct solar spectral index for estimating outdoor performance of concentrator photovoltaic systems. <i>Renewable Energy</i> , 2015, 75, 762-766.	4.3	32
17	Investigation of correlation between open-circuit voltage deficit and carrier recombination rates in Cu(In,Ga)(S,Se) ₂ -based thin-film solar cells. <i>Applied Physics Letters</i> , 2018, 112, 151601.	1.5	32
18	Numerical reproduction of a perovskite solar cell by device simulation considering band gap grading. <i>Optical Materials</i> , 2019, 92, 60-66.	1.7	32

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19	Investigation on evaporation and suppression of SnS during fabrication of Cu ₂ SnS ₃ thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2289-2296.	0.8	31
20	Impact of Precursor Compositions on the Structural and Photovoltaic Properties of Spray-Deposited Cu ₂ ZnSnS ₄ Thin Films. <i>ChemSusChem</i> , 2016, 9, 2414-2420.	3.6	31
21	Heterointerface recombination of Cu(In,Ga)(S,Se) ₂ -based solar cells with different buffer layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 127-134.	4.4	31
22	Na role during sulfurization of NaF/Cu/SnS ₂ stacked precursor for formation of Cu ₂ SnS ₃ thin film as absorber of solar cell. <i>Applied Surface Science</i> , 2017, 414, 140-146.	3.1	29
23	Colorful, Flexible, and Lightweight Cu(In,Ga)Se ₂ Solar Cell by Lift-Off Process With Automotive Painting. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1326-1330.	1.5	27
24	Impact of Auger recombination on performance limitation of perovskite solar cell. <i>Solar Energy</i> , 2021, 217, 342-353.	2.9	27
25	Enhancement of photovoltaic performances of Cu(In,Ga)(S,Se) ₂ solar cell through combination of heat-light soaking and light soaking processes. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 868-876.	4.4	26
26	Aging Effect of a Cu(In,Ga)(S,Se) ₂ Absorber on the Photovoltaic Performance of Its Cd-Free Solar Cell Fabricated by an All-Dry Process: Its Carrier Recombination Analysis. <i>Advanced Energy Materials</i> , 2019, 9, 1902869.	10.2	26
27	Sputtered (Zn,Mg)O buffer layer for band offset control in Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 106502.	0.8	24
28	Characteristics of Zn _{1-x} Mg _x O:B and its application as transparent conductive oxide layer in Cu(In,Ga)(S,Se) ₂ solar cells with and without CdS buffer layer. <i>Solar Energy</i> , 2019, 184, 553-560.	2.9	24
29	Influence of conduction band minimum difference between transparent conductive oxide and absorber on photovoltaic performance of thin-film solar cell. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 032301.	0.8	23
30	Influence of Na in Cu ₂ SnS ₃ film on its physical properties and photovoltaic performances. <i>Thin Solid Films</i> , 2017, 636, 431-437.	0.8	23
31	Influences of environmental factors on Si-based photovoltaic modules after longtime outdoor exposure by multiple regression analysis. <i>Renewable Energy</i> , 2017, 101, 10-15.	4.3	23
32	Examination of Relationship between Urbach Energy and Open-Circuit Voltage Deficit of Flexible Cu(In,Ga)Se ₂ Solar Cell for Its Improved Photovoltaic Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 7843-7849.	2.5	22
33	Controlled back slope of Ga/(In+Ga) profile in Cu(In,Ga)Se ₂ absorber fabricated by multi layer precursor method for improvement of its photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 223-228.	3.0	21
34	Physical and chemical aspects at the interface and in the bulk of CuInSe ₂ -based thin-film photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1262-1285.	1.3	21
35	Trap-assisted recombination for ohmic-like contact at p-type Cu(In,Ga)Se ₂ /back n-type TCO interface in superstrate-type solar cell. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	20
36	Spectral mismatch correction factor indicated by average photon energy for precise outdoor performance measurements of different-type photovoltaic modules. <i>Renewable Energy</i> , 2017, 114, 567-573.	4.3	19

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37	Application of Al-Doped (Zn, Mg)O on pure-sulfide Cu(In, Ga)S ₂ solar cells for enhancement of open-circuit voltage. <i>Solar Energy Materials and Solar Cells</i> , 2019, 202, 110157.	3.0	19
38	Impact of average photon energy on spectral gain and loss of various-type PV technologies at different locations. <i>Renewable Energy</i> , 2020, 145, 1317-1324.	4.3	19
39	Localized surface plasmon enhanced microcrystalline silicon solar cells. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2319-2323.	1.5	18
40	Application of multi-buffer layer of (Zn,Mg)O/CdS in Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Current Applied Physics</i> , 2015, 15, 383-388.	1.1	18
41	ZnSnP ₂ solar cell with (Cd,Zn)S buffer layer: Analysis of recombination rates. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 412-417.	3.0	18
42	Characterization of Cd-Free Zn _{0.8} Mg _{0.2} O:Al/Zn _{0.9} Mg _{0.1} O/Cu(In,Ga)(S,Se) ₂ Solar Cells Fabricated by an All Dry Process Using Ultraviolet Light Excited Time-Resolved Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7539-7545.	4.0	18
43	Back-contact barrier analysis to develop flexible and bifacial Cu(In,Ga)Se ₂ solar cells using transparent conductive In ₂ O ₃ : SnO ₂ thin films. <i>Solar Energy</i> , 2020, 211, 1311-1317.	2.9	18
44	Determination of open-circuit voltage in Cu(In,Ga)Se ₂ solar cell by averaged Ga/(In+Ga) near its absorber surface. <i>Journal of Applied Physics</i> , 2013, 114, 084501.	1.1	17
45	Description of degradation of output performance for photovoltaic modules by multiple regression analysis based on environmental factors. <i>Optik</i> , 2019, 179, 1063-1070.	1.4	17
46	22% efficient Cd-free Cu(In,Ga)(S,Se) ₂ solar cell by all-dry process using Zn _{0.8} Mg _{0.2} O and Zn _{0.9} Mg _{0.1} O:B as buffer and transparent conductive oxide layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 79-89.	4.4	17
47	Superstrate-type flexible and bifacial Cu(In,Ga)Se ₂ thin-film solar cells with In ₂ O ₃ :SnO ₂ back contact. <i>Solar Energy</i> , 2020, 211, 725-731.	2.9	17
48	Application of Two-Dimensional MoSe ₂ Atomic Layers to the Lift-Off Process for Producing Light-Weight and Flexible Bifacial Cu(In, Ga)Se ₂ Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9504-9508.	2.5	17
49	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) ₂ Solar Cell by the All-Dry Process. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22298-22307.	4.0	17
50	Impact of Ga/(In + Ga) profile in Cu(In,Ga)Se ₂ prepared by multi-layer precursor method on its cell performance. <i>Thin Solid Films</i> , 2014, 556, 499-502.	0.8	16
51	Solar cells using bulk crystals of rare metal-free compound semiconductor ZnSnP ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600650.	0.8	15
52	Influence of halogen content in mixed halide perovskite solar cells on cell performances through device simulation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110252.	3.0	15
53	Time-resolved photoluminescence of Cu(In,Ga)(Se,S) ₂ thin films and temperature dependent current density-voltage characteristics of their solar cells on surface treatment effect. <i>Current Applied Physics</i> , 2017, 17, 461-466.	1.1	14
54	Fabrication of flexible and bifacial Cu(In,Ga)Se ₂ solar cell with superstrate-type structure using a lift-off process. <i>Solar Energy</i> , 2020, 199, 819-825.	2.9	14

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55	Physical properties of Cu(In,Ga)Se ₂ film on flexible stainless steel substrate for solar cell application: A multi-layer precursor method. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 510-516.	3.0	13
56	Impact of Heterointerfaces in Solar Cells Using ZnSnP ₂ Bulk Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33827-33832.	4.0	13
57	Flexible Cu(In,Ga)Se ₂ solar cell with superstrate-type configuration fabricated by a lift-off process. <i>Thin Solid Films</i> , 2018, 662, 110-115.	0.8	13
58	Development of flexible Cd-free Cu(In,Ga)Se ₂ solar cell on stainless steel substrate through multi-layer precursor method. <i>Journal of Alloys and Compounds</i> , 2018, 756, 111-116.	2.8	13
59	Structures of Cu(In,Ga)(S,Se) ₂ solar cells for minimizing open-circuit voltage deficit: Investigation of carrier recombination rates. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 630-639.	4.4	13
60	Description of performance degradation of photovoltaic modules using spectral mismatch correction factor under different irradiance levels. <i>Renewable Energy</i> , 2019, 141, 444-450.	4.3	13
61	Mobility improvement of Zn _{1-x} Mg _x O:Al prepared under room temperature by co-sputtering through optimizations of Al and Mg contents. <i>Materials Science in Semiconductor Processing</i> , 2020, 109, 104921.	1.9	13
62	Device design for high-performance bifacial Cu(In,Ga)Se ₂ solar cells under front and rear illuminations. <i>Solar Energy</i> , 2021, 218, 76-84.	2.9	13
63	Annealing effect on Cu ₂ ZnSn(S,Se) ₄ solar cell with Zn _{1-x} Mg _x O buffer layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2766-2771.	0.8	12
64	Influence of minimum position in [Ga]/([Ga]+[In]) profile of Cu(In,Ga)Se ₂ on flexible stainless steel substrate on its photovoltaic performances. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 750-756.	3.0	12
65	ZnSnP ₂ thin-film solar cell prepared by phosphidation method under optimized Zn/Sn atomic ratio of its absorbing layer. <i>Current Applied Physics</i> , 2017, 17, 557-564.	1.1	12
66	Urbach energy of Cu(In,Ga)Se ₂ and Cu(In,Ga)(S,Se) ₂ absorbers prepared by various methods: Indicator of their quality. <i>Materials Today Communications</i> , 2019, 21, 100652.	0.9	12
67	Effect of Alkali Treatment on Photovoltaic Performances of Cu(In,Ga)(S,Se) ₂ Solar Cells and Their Absorber Quality Analyzed by Urbach Energy and Carrier Recombination Rates. <i>ACS Applied Energy Materials</i> , 2020, 3, 1292-1297.	2.5	12
68	Optimized bandgaps of top and bottom subcells for bifacial two-terminal tandem solar cells under different back irradiances. <i>Solar Energy</i> , 2021, 220, 163-174.	2.9	12
69	Influence of Cu/(Ge + Sn) composition ratio on photovoltaic performances of Cu ₂ Sn _{1-x} Ge _x S ₃ solar cell. <i>Solar Energy</i> , 2017, 149, 341-346.	2.9	11
70	Gas-temperature control in VHF-PECVD process for high-rate (>5 nm/s) growth of microcrystalline silicon thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 521-524.	0.8	10
71	Relationship between open-circuit voltage in Cu(In,Ga)Se ₂ solar cell and peak position of (220/204) preferred orientation near its absorber surface. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	10
72	Ohmic-like contact formation at the rear interface between Cu(In,Ga)Se ₂ and ZnO:Al in a lift-off Cu(In,Ga)Se ₂ solar cell. <i>Thin Solid Films</i> , 2016, 616, 17-22.	0.8	10

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73	Examination of electrical and optical properties of Zn ^{1-x} Mg ^x O:Al fabricated by radio frequency magnetron co-sputtering. <i>Thin Solid Films</i> , 2018, 646, 105-111.	0.8	10
74	Influences of Fe and absorber thickness on photovoltaic performances of flexible Cu(In,Ga)Se ₂ solar cell on stainless steel substrate. <i>Solar Energy</i> , 2018, 173, 126-131.	2.9	10
75	Thermodynamic limit of tandem solar cells under different solar spectra and their perovskite top solar cell. <i>Optical Materials</i> , 2021, 113, 110819.	1.7	10
76	Spectral mismatch correction factor for precise outdoor performance evaluation and description of performance degradation of different-type photovoltaic modules. <i>Solar Energy</i> , 2019, 181, 169-177.	2.9	9
77	Description of short circuit current of outdoor photovoltaic modules by multiple regression analysis under various solar irradiance levels. <i>Renewable Energy</i> , 2020, 147, 895-902.	4.3	9
78	Influence of Ge/(Ge+Sn) composition ratio in Cu ₂ Sn _{1-x} GexS ₃ thin-film solar cells on their physical properties and photovoltaic performances. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110382.	3.0	9
79	Bismuth-doped Cu(In,Ga)Se ₂ absorber prepared by multi-layer precursor method and its solar cell. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 680-683.	0.8	8
80	Estimation of open-circuit voltage of Cu(In,Ga)Se ₂ solar cells before cell fabrication. <i>Renewable Energy</i> , 2015, 76, 575-581.	4.3	8
81	Interfacial modification mechanism by aging effect for high-performance Cd-free and all-dry process Cu(In,Ga)(S,Se) ₂ solar cells. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	8
82	Spectral gain and loss of different-type photovoltaic modules through average photon energy of various locations in Japan. <i>Solar Energy</i> , 2021, 214, 1-10.	2.9	8
83	Evaluation of junction quality of buffer-free Zn(O,S):Al/Cu(In,Ga)Se ₂ thin-film solar cells. <i>Applied Physics Express</i> , 2014, 7, 125503.	1.1	7
84	Multi layer precursor method for Cu(In,Ga)Se ₂ solar cells fabricated on flexible substrates. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FW03.	0.8	7
85	Evaluation of sputtering damage in Cu ₂ ZnSn(S,Se) ₄ solar cells with CdS and (Cd,Zn)S buffer layers by photoluminescence measurement. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 042302.	0.8	7
86	Effects of Na and secondary phases on physical properties of SnS thin film after sulfurization process. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 092301.	0.8	7
87	Manipulation of [Ga]/([Ga]+[In]) profile in 1.4- μ m-thick Cu(In,Ga)Se ₂ thin film on flexible stainless steel substrate for enhancing short-circuit current density and conversion efficiency of its solar cell. <i>Solar Energy</i> , 2020, 204, 231-237.	2.9	7
88	Silver-alloyed wide-gap CuGaSe ₂ solar cells. <i>Solar Energy</i> , 2021, 230, 509-514.	2.9	7
89	Bismuth-doped Cu(In,Ga)Se ₂ solar cell on flexible stainless steel substrate: Examination of bismuth-doping effectiveness under different substrate temperatures on photovoltaic performances. <i>Solar Energy</i> , 2020, 208, 20-30.	2.9	6
90	Formation of Native In _x (O,S) _y Buffer through Surface Oxidation of Cu(In,Ga)(S,Se) ₂ Absorber for Significantly Enhanced Conversion Efficiency of Flexible and Cd-Free Solar Cell by All-Dry Process. <i>Solar Rrl</i> , 2022, 6, .	3.1	6

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91	Effect of thermal annealing and hydrogen-plasma treatment in boron-doped microcrystalline silicon. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1966-1969.	1.5	5
92	Effect of crystal orientation in Cu(In,Ga)Se ₂ fabricated by multi-layer precursor method on its cell performance. <i>Applied Surface Science</i> , 2014, 314, 845-849.	3.1	5
93	Raman scattering peak position of Cu(In,Ga)Se ₂ film to predict its near-surface [Ga] / ([Ga] + [In]) and open-circuit voltage. <i>Thin Solid Films</i> , 2015, 582, 7-10.	0.8	5
94	Micro-scale current path distributions of Zn _{1-x} Mg _x O-coated SnO ₂ :F transparent electrodes prepared by sol-gel and sputtering methods in perovskite solar cells. <i>Thin Solid Films</i> , 2019, 669, 455-460.	0.8	5
95	Mg Content Impact of a Sputtered Zn _{1-x} Mg _x O:Al Transparent Electrode on Photovoltaic Performances of Flexible, Cd-Free, and All-Dry-Process Cu(In,Ga)(S,Se) ₂ Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 2270-2278.	2.5	5
96	Derived Conduction Band Offset by Photoelectron Yield Spectroscopy and Its Quantitative Number for Efficiency Enhancement of Flexible, Cd-Free, and All-Dry Process Zn _{1-x} Mg _x O:Al/Zn _{1-x} Mg _x O/Cu(In,Ga)(S,Se) ₂ Solar Cells. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2077-2085.	2.0	5
97	Numerical analysis of Cu(In,Ga)Se ₂ solar cells with high defect density layer at back side of absorber. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 638-642.	0.8	4
98	Utilization of spectral mismatch correction factor for estimation of precise outdoor performance under different average photon energies. <i>Renewable Energy</i> , 2020, 157, 173-181.	4.3	4
99	Effect of an Ohmic back contact on the stability of Cu(In,Ga)Se ₂ -based flexible bifacial solar cells. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
100	Zn _{1-x} Mg _x O second buffer layer of Cu ₂ Sn _{1-x} GexS ₃ thin-film solar cell for minimizing carrier recombination and open-circuit voltage deficit. <i>Solar Energy</i> , 2020, 204, 769-776.	2.9	4
101	Gaussian distribution of average photon energy and spectral gain and loss of several-type photovoltaic modules at different outdoor sites around the world. <i>Optics Communications</i> , 2022, 505, 127516.	1.0	4
102	[Ga]/([Ga]+[In]) profile controlled through Ga flux for performance improvement of Cu(In,Ga)Se ₂ solar cells on flexible stainless steel substrates. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163276.	2.8	4
103	Importance of Starting Procedure for Film Growth in Substrate-Type Microcrystalline-Silicon Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 045806.	0.8	3
104	Investigation of near-surface material composition of Cu(In,Ga)Se ₂ film after air exposure and chemical etching for its Cd-free solar cell. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 121201.	0.8	3
105	Accurate estimation of outdoor performance of photovoltaic module through spectral mismatch correction factor under wide range of solar spectrum. <i>Current Applied Physics</i> , 2021, 28, 59-71.	1.1	3
106	Theoretical impacts of single band gap grading of perovskite and valence band offset of perovskite/hole transport layer interface on its solar cell performances. <i>Solar Energy</i> , 2022, 231, 684-693.	2.9	3
107	The relationship between $L_{\{m H\}_{m \alpha}} / (L_{\{m SiH\}})^2$ and crystalline volume fraction in microcrystalline silicon growth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 587-590.	0.8	2
108	Post annealing effect on buffer-free CuInS ₂ solar cells with transparent conducting Zn _{1-x} Mg _x O:Al films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FW04.	0.8	2

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109	Highly Decorative, Lightweight Flexible Solar Cells for Automotive Applications. , 0, , .		2
110	Effect of ammonia etching on structural and electrical properties of Cu ₂ ZnSn(S,Se) ₄ absorbers. Applied Surface Science, 2015, 353, 209-213.	3.1	1
111	Tunableâ€Conductionâ€Band In ^z Zn ^o â€based Transparent Conductive Oxide Deposited at Room Temperature. Physica Status Solidi (A) Applications and Materials Science, 0, , .	0.8	1
112	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.	4.3	1
113	Position Influence of Sputtered Zn _{1-x} Mg _x O/Zn _{1-x} Mg _x O:Al Layers in Flexible and Cd-Free Cu(In,Ga)(S,Se) ₂ Solar Cells. ACS Applied Materials & Interfaces. 0, , .	4.0	1
114	Influence of hetero-interfaces on photovoltaic performance in solar cells based on ZnSnP ₂ bulk crystal. , 2017, , .		0
115	Peeling Technique by Two-Dimensional MoSe ₂ Atomic Layer for Bifacial-Flexible Cu(In, Ga)Se ₂ solar cells. , 2021, , .		0