

Yong-Duck Chung

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	1,097 citations	18 h-index	28 g-index
128 ext. papers	1,250 ext. citations	3.8 avg, IF	4.01 L-index

#	Paper	IF	Citations
94	Adhesion and interface chemical reactions of Cu/polyimide and Cu/TiN by XPS. <i>Applied Surface Science</i> , 2003 , 205, 128-136	6.7	71
93	SOA-EAM frequency up/down-converters for 60-GHz bi-directional radio-on-fiber systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 959-966	4.1	63
92	Electronic effect of Na on Cu(In,Ga)Se ₂ solar cells. <i>Applied Physics Letters</i> , 2012 , 101, 023901	3.4	47
91	Effect of annealing on CdS/Cu(In,Ga)Se ₂ thin-film solar cells. <i>Current Applied Physics</i> , 2011 , 11, S65-S67	2.6	43
90	XPS core-level shifts and XANES studies of CuPt and CoPt alloys. <i>Surface and Interface Analysis</i> , 2000 , 30, 475-478	1.5	43
89	Behavior of Photocarriers in the Light-Induced Metastable State in the p-n Heterojunction of a Cu(In,Ga)Se ₂ Solar Cell with CBD-ZnS Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22151-8	9.5	42
88	Photovoltaic Performance and Interface Behaviors of Cu(In,Ga)Se ₂ Solar Cells with a Sputtered-Zn(O,S) Buffer Layer by High-Temperature Annealing. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17425-32	9.5	38
87	Chemical configuration of nitrogen in ultrathin Si oxynitride on Si(100). <i>Physical Review B</i> , 2002 , 66,	3.3	38
86	Spontaneous N incorporation onto a Si(100) surface. <i>Physical Review Letters</i> , 2003 , 90, 106101	7.4	37
85	Incorporation of Cu in Cu(In,Ga)Se ₂ -based Thin-film Solar Cells. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1826-1830	0.6	33
84	Influence of growth temperature of transparent conducting oxide layer on Cu(In,Ga)Se ₂ thin-film solar cells. <i>Thin Solid Films</i> , 2012 , 520, 2115-2118	2.2	31
83	Non-toxically enhanced sulfur reaction for formation of chalcogenide thin films using a thermal cracker. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14593-14599	13	26
82	Adsorption and reaction of NO on the Si(001) surface. <i>Physical Review B</i> , 2002 , 65,	3.3	26
81	Highly efficient Ag-alloyed Cu(In,Ga)Se ₂ solar cells with wide bandgaps and their application to chalcopyrite-based tandem solar cells. <i>Nano Energy</i> , 2018 , 48, 345-352	17.1	22
80	Effects of chemical etching with sulfuric acid on glass surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 401-404	2.9	22
79	Light-soaking effects and capacitance profiling in Cu(In,Ga)Se thin-film solar cells with chemical-bath-deposited ZnS buffer layers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 33211-33217	3.6	21
78	Grain boundary diffusion of Cu in TiN film by X-ray photoelectron spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 431-434	2.6	19

77	Characteristics of temperature and wavelength dependence of CuInSe ₂ thin-film solar cell with sputtered Zn(O,S) and CdS buffer layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2172-2176	1.6	18
76	Junction formation at the interface of CdS/CuIn _x Ga(1-x)Se ₂ . <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 345302	3	18
75	Titanium oxide films on Si(100) deposited by e-beam evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2932-2936	2.9	18
74	Thermally evaporated amorphous InZnO thin film applicable to transparent conducting oxide for solar cells. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 976-982	5.7	16
73	Effect of Se flux on CuIn _{1-x} Ga _x Se ₂ film in reactive sputtering process. <i>Progress in Photovoltaics: Research and Applications</i> , 2012 , 20, 899-903	6.8	16
72	Na-Dependent Ultrafast Carrier Dynamics of CdS/Cu(In,Ga)Se ₂ Measured by Optical Pump-Terahertz Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20231-20236	3.8	15
71	Remote optoelectronic frequency down-conversion using 60-GHz optical heterodyne signals and an electroabsorption Modulator. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1073-1075	2.2	15
70	Photovoltaic performance of flexible Cu(In,Ga)Se ₂ thin-film solar cells with varying Cr impurity barrier thickness. <i>Current Applied Physics</i> , 2013 , 13, 2033-2037	2.6	13
69	Development and RF characteristics of analog 60-GHz electroabsorption modulator module for RF/optic conversion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 780-787	4.1	13
68	Ultrafast Photocarrier Dynamics at the p-n Junction in Cu(In,Ga)Se ₂ Solar Cell with Various Zn(O,S) Buffer Layers Measured by Optical Pump-Terahertz Probe Spectroscopy. <i>ACS Applied Energy Materials</i> , 2018 , 1, 522-530	6.1	12
67	Interface Analysis of Cu(In,Ga)Se ₂ and ZnS Formed Using Sulfur Thermal Cracker. <i>ETRI Journal</i> , 2016 , 38, 265-271	1.4	12
66	Na effect on flexible Cu(In,Ga)Se ₂ photovoltaic cell depending on diffusion barriers (SiO _x , i-ZnO) on stainless steel. <i>Materials Chemistry and Physics</i> , 2014 , 147, 783-787	4.4	12
65	Effects of chemical etching with hydrochloric acid on a glass surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2563	2.9	12
64	Analysis of vertical phase distribution in reactively sputtered zinc oxysulfide thin films. <i>Applied Surface Science</i> , 2019 , 486, 555-560	6.7	11
63	Ultrafast wavelength-dependent carrier dynamics related to metastable defects in Cu(In,Ga)Se ₂ solar cells with chemically deposited Zn(O,S) buffer layer. <i>Nano Energy</i> , 2020 , 74, 104855	17.1	11
62	Optimization of Packaging Design of TWEAM Module for Digital and Analog Applications. <i>ETRI Journal</i> , 2004 , 26, 589-596	1.4	11
61	Enhanced sulfurization reaction of molybdenum using a thermal cracker for forming two-dimensional MoS layers. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16193-16201	3.6	11
60	Effects of Ga concentration in Cu(In,Ga)Se ₂ thin film solar cells with a sputtered-Zn(O,S) buffer layer. <i>Solar Energy</i> , 2017 , 145, 59-65	6.8	10

59	Analysis of the Current-voltage Curves of a Cu(In,Ga)Se ₂ Thin-film Solar Cell Measured at Different Irradiation Conditions. <i>Journal of the Optical Society of Korea</i> , 2010 , 14, 321-325		10
58	A 60-GHz-Band Analog Optical System-on-Package Transmitter for Fiber-Radio Communications. <i>Journal of Lightwave Technology</i> , 2007 , 25, 3407-3412	4	10
57	Effect of oxidized Al prelayer for the growth of polycrystalline Al ₂ O ₃ films on Si using ionized beam deposition. <i>Thin Solid Films</i> , 2001 , 388, 290-294	2.2	9
56	Work Function Tuning of Zinc-Tin Oxide Thin Films Using High-Density O ₂ Plasma Treatment. <i>Coatings</i> , 2020 , 10, 1026	2.9	8
55	Quantitative analysis of Cu(In,Ga)Se ₂ thin films by secondary ion mass spectrometry using a total number counting method. <i>Metrologia</i> , 2012 , 49, 522-529	2.1	8
54	Growth of epitaxial Al ₂ O ₃ (111) films using an oxidized Si(111) substrate. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2559-2562		8
53	Color tuning in Cu(In,Ga)Se ₂ thin-film solar cells by controlling optical interference in transparent front layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2020 , 28, 798-807	6.8	7
52	Metal-agglomeration-suppressed growth of MoS and MoSe films with small sulfur and selenium molecules for high mobility field effect transistor applications. <i>Nanoscale</i> , 2018 , 10, 15213-15221	7.7	7
51	60-GHz System-on-Packaging Transmitter for Radio-Over-Fiber Applications. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2379-2387	4	7
50	X-ray absorption spectroscopy of Ag-Cr and Pd-Cr alloys formed by ion-beam-mixing. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 59-63	2.6	7
49	Unraveling interface characteristics of Zn(O,S)/Cu(In,Ga)Se ₂ at nanoscale: Enhanced hole transport by tuning band offsets. <i>Applied Surface Science</i> , 2020 , 509, 144782	6.7	7
48	Surface nanostructuring of CuIn _{1-x} Ga _x Se ₂ films using argon plasma treatment. <i>Semiconductor Science and Technology</i> , 2017 , 32, 075014	1.8	6
47	Enhanced electrical conductivity of transparent electrode using metal microfiber networks for gridless thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109998	6.4	6
46	Reactively sputtered Zn(O,S) buffer layers for controlling band alignment of Cu(In,Ga)Se ₂ thin-film solar cell interface. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155986	5.7	6
45	Sodium-assisted passivation of grain boundaries and defects in CuZnSnSe thin films. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7597-7605	3.6	6
44	Characterization of bilayer AZO film grown by low-damage sputtering for Cu(In,Ga)Se ₂ solar cell with a CBD-ZnS buffer layer. <i>Materials Science in Semiconductor Processing</i> , 2018 , 81, 48-53	4.3	6
43	Effect of supersonic spraying impact velocity on opto-electric properties of transparent conducting flexible films consisting of silver nanowire, ITO, and polyimide multilayers. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 653-659	5.7	6
42	Flexible solar cells with a Cu(In,Ga)Se ₂ absorber grown by using a Se thermal cracker on a polyimide substrate. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 76-81	0.6	6

41	Role of hydrazine in the enhanced growth of zinc sulfide thin films using chemical bath deposition for Cu(In,Ga)Se ₂ solar cell application. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104729	4.3	6
40	Photoluminescence of sulfur-incorporated CIGS solar cells through post-annealing. <i>Journal of Luminescence</i> , 2017 , 188, 595-599	3.8	5
39	Accurate quantification of Cu(In,Ga)Se ₂ films by AES depth profiling analysis. <i>Applied Surface Science</i> , 2013 , 282, 777-781	6.7	5
38	Photoreflectance characteristics of chemical-bath-deposited-CdS layer in Cu(In,Ga)Se ₂ thin-film solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 04D116	2.9	5
37	System-on-Packaging with Electroabsorption Modulator for a 60-GHz Band Radio-Over-Fiber Link. <i>IEEE Transactions on Advanced Packaging</i> , 2008 , 31, 163-169		5
36	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1017-1024	3.8	5
35	Analog characteristics of electroabsorption modulator for RF/optic conversion; RF gain and IMD3. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 1151-1155	1.2	5
34	Improving 60-GHz band radio-frequency with radio-over-fiber link characteristics of optical transmitter system-on-packaging. <i>Optical Engineering</i> , 2008 , 47, 025005	1.1	4
33	Optical coupling analysis of dual-waveguide structure for monolithic integration of photonic devices. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2304-2306	2.2	4
32	Fabrication and characteristics of traveling-wave electro-absorption modulator (TWEAM) modules for millimeter-wave radio-over-fiber link		4
31	Large Enhancement of Linearity in Electroabsorption Modulator with Composite Quantum-Well Absorption Core. <i>IEICE Transactions on Electronics</i> , 2005 , E88-C, 967-972	0.4	4
30	Interface and bulk properties of Cu(In,Ga)Se ₂ solar cell with a cracker-ZnS buffer layer. <i>Current Applied Physics</i> , 2018 , 18, 405-410	2.6	3
29	Spectral Response of CuGaSe ₂ /Cu(In,Ga)Se ₂ Monolithic Tandem Solar Cell With Open-Circuit Voltage Over 1 V. <i>IEEE Journal of Photovoltaics</i> , 2018 , 1-9	3.7	3
28	Interface characteristics of CdS/Cu(In,Ga)Se ₂ thin-film solar cells by using photoreflectance spectroscopy. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1623-1627	0.6	3
27	Dependence of Cu(In,Ga)Se ₂ Solar Cell Performance on Cd Solution Treatment Conditions. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 551, 221-227	0.5	3
26	New Impedance Matching Scheme for 60 GHz Band Electro-Absorption Modulator Modules. <i>ETRI Journal</i> , 2006 , 28, 393-396	1.4	3
25	Comparison of titanium oxide films grown on bare glass and boiled glass in 50% H ₂ SO ₄ by metal-organic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2394	2.9	3
24	Post-Heat Treatment on Cu(In,Ga)Se ₂ Solar Cells with CBD-ZnS Buffer Layers as a Function of ITO Growth Temperature. <i>Applied Science and Convergence Technology</i> , 2018 , 27, 189-193	0.8	3

23	Distinction of [220] and [204] textures of Cu(In,Ga)Se ₂ film and their growth behaviors depending on substrate nature and Na incorporation. <i>Thin Solid Films</i> , 2015 , 589, 309-314	2.2	2
22	Effect of NaF precursor on preferential growth of Cu(In,Ga)Se ₂ thin films. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1517-1520	0.6	2
21	Electrical and optical properties of radio frequency magnetron-sputtered lightly aluminum-doped zinc oxide thin films deposited in hydrogen-argon gas. <i>Thin Solid Films</i> , 2013 , 540, 142-145	2.2	2
20	Fabrication and characterization of a spot-size converter-integrated 1.3 μ m FP laser diode. <i>Semiconductor Science and Technology</i> , 2006 , 21, 790-793	1.8	2
19	Ultrafast Photoexcited-Carrier Behavior Induced by Hydrogen Ion Irradiation of a Cu(In,Ga)Se ₂ Thin Film in the Terahertz Region. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 1-1	3-4	2
18	ZnS buffer layer prepared by sulfurization of sputtered Zn film for Cu(In, Ga)Se ₂ solar cells 2013 ,		1
17	The thickness effect of SiO _x layer in CIGS thin-film solar cells fabricated on stainless-steel substrate 2010 ,		1
16	Method for the study of grain boundary diffusion effects by Auger electron spectroscopy sputter depth profiling. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 2013-2016	2016	1
15	Low phase-noise 40 GHz optical pulses from a self-starting electroabsorption-modulator-based optoelectronic oscillator 2006 ,		1
14	Modeling of Traveling Wave Electro-absorption Modulator for High Speed Optical Communication Systems		1
13	Analysis of Crosstalk and Impedance Matching for 60 GHz Band Electro-Absorption Duplexer (EAD) Module 2006 ,		1
12	System-on-packaging with electro-absorption modulator for 60 GHz band radio-over-fiber link		1
11	Monolithic integration of thin film heater array with 4-channel WDM transmitter. <i>Microelectronics Journal</i> , 2004 , 35, 203-206	1.8	1
10	Characteristics of radio-over-fiber link with 60-GHz narrow band electroabsorption modulator 2005 ,		1
9	Comment on Enhancement in hardness and transmittance of ZnS via SiO ₂ /Y ₂ O ₃ multilayer \square <i>Journal of Alloys and Compounds</i> , 2016 , 664, 648-649	5-7	1
8	Colorful solar cells utilizing off-axis light diffraction via transparent nanograting structures. <i>Nano Energy</i> , 2021 , 80, 105550	17.1	1
7	The origin of the enhanced photoresponsivity of the phototransistor with ZnO _{1-x} S _x single active layer. <i>Applied Surface Science</i> , 2022 , 590, 153062	6.7	1
6	Development of 60-GHz analog optic transmitter module with radio-frequency gain for radio-over-fiber link. <i>Optical Engineering</i> , 2007 , 46, 115004	1.1	0

5	Evolution of Morphological and Chemical Properties at p-n Junction of Cu(In,Ga)Se Solar Cells with Zn(O,S) Buffer Layer as a Function of KF Postdeposition Treatment Time. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48611-48621	9.5	o
4	Terahertz Emission and Ultrafast Carrier Dynamics of Ar-Ion Implanted Cu(In,Ga)Se ₂ Thin Films. <i>Crystals</i> , 2021 , 11, 411	2.3	o
3	A monolithic electro-absorption duplexer (EAD) integrated with a spot size converter. <i>Semiconductor Science and Technology</i> , 2008 , 23, 015005	1.8	
2	Analog RF-optic performance of 60 GHz electroabsorption duplexer module 2006 , 6352, 830		
1	Fabrication of a four-channel monolithic integrated laser array with asymmetric sampled grating lasers. <i>Semiconductor Science and Technology</i> , 2004 , 19, 561-564	1.8	