Yong-Duck Chung

List of Publications by Year in Descending Order

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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 1,097 18 28 g-index

128 1,250 3.8 4.01 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
94	The origin of the enhanced photoresponsivity of the phototransistor with ZnO1-xSx single active layer. <i>Applied Surface Science</i> , 2022 , 590, 153062	6.7	1
93	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 & ACS Applied Materials</i>	9.5	O
92	Terahertz Emission and Ultrafast Carrier Dynamics of Ar-Ion Implanted Cu(In,Ga)Se2 Thin Films. <i>Crystals</i> , 2021 , 11, 411	2.3	O
91	Colorful solar cells utilizing off-axis light diffraction via transparent nanograting structures. <i>Nano Energy</i> , 2021 , 80, 105550	17.1	1
90	Work Function Tuning of ZincTin Oxide Thin Films Using High-Density O2 Plasma Treatment. <i>Coatings</i> , 2020 , 10, 1026	2.9	8
89	Ultrafast wavelength-dependent carrier dynamics related to metastable defects in Cu(In,Ga)Se2 solar cells with chemically deposited Zn(O,S) buffer layer. <i>Nano Energy</i> , 2020 , 74, 104855	17.1	11
88	Reactively sputtered Zn(O,S) buffer layers for controlling band alignment of Cu(In,Ga)Se2 thin-film solar cell interface. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155986	5.7	6
87	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
86	Color tuning in Cu(In,Ga)Se2 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
85	Ultrafast Photoexcited-Carrier Behavior Induced by Hydrogen Ion Irradiation of a Cu(In,Ga)Se2 Thin Film in the Terahertz Region. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 1-1	3.4	2
84	Unraveling interface characteristics of Zn(O,S)/Cu(In,Ga)Se2 at nanoscale: Enhanced hole transport by tuning band offsets. <i>Applied Surface Science</i> , 2020 , 509, 144782	6.7	7
83	Role of hydrazine in the enhanced growth of zinc sulfide thin films using chemical bath deposition for Cu(In,Ga)Se2 solar cell application. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104729	4.3	6
82	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
81	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
80	Analysis of vertical phase distribution in reactively sputtered zinc oxysulfide thin films. <i>Applied Surface Science</i> , 2019 , 486, 555-560	6.7	11
79	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
78	Characterization of bilayer AZO film grown by low-damage sputtering for Cu(In,Ga)Se2 solar cell with a CBD-ZnS buffer layer. <i>Materials Science in Semiconductor Processing</i> , 2018 , 81, 48-53	4.3	6

(2015-2018)

77	flexible films consisting of silver nanowire, ITO, and polyimide multilayers. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 653-659	5.7	6
76	Ultrafast Photocarrier Dynamics at the pfi Junction in Cu(In,Ga)Se2 Solar Cell with Various Zn(O,S) Buffer Layers Measured by Optical Pumplerahertz Probe Spectroscopy. <i>ACS Applied Energy Materials</i> , 2018 , 1, 522-530	6.1	12
75	Highly efficient Ag-alloyed Cu(In,Ga)Se2 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
74	Spectral Response of CuGaSe2/Cu(In,Ga)Se2 Monolithic Tandem Solar Cell With Open-Circuit Voltage Over 1 V. <i>IEEE Journal of Photovoltaics</i> , 2018 , 1-9	3.7	3
73	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
72	Post-Heat Treatment on Cu(In,Ga)Se2 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
71	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
70	Surface nanostructuring of CuIn1\(\mathbb{Q}\)axSe2films using argon plasma treatment. <i>Semiconductor Science and Technology</i> , 2017 , 32, 075014	1.8	6
69	Photoluminescence of sulfur-incorporated CIGS solar cells through post-annealing. <i>Journal of Luminescence</i> , 2017 , 188, 595-599	3.8	5
68	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
67	Interface Analysis of Cu(In,Ga)Se2 and ZnS Formed Using Sulfur Thermal Cracker. <i>ETRI Journal</i> , 2016 , 38, 265-271	1.4	12
66	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
65	Comment on Enhancement in hardness and transmittance of ZnS via SiO2/Y2O3 multilayer Journal of Alloys and Compounds, 2016 , 664, 648-649	5.7	1
64	Behavior of Photocarriers in the Light-Induced Metastable State in the p-n Heterojunction of a Cu(In,Ga)Se2 Solar Cell with CBD-ZnS Buffer Layer. <i>ACS Applied Materials & amp; Interfaces</i> , 2016 , 8, 2215	59:-8	42
63	Distinction of [220] and [204] textures of Cu(In,Ga)Se2 film and their growth behaviors depending on substrate nature and Na incorporation. <i>Thin Solid Films</i> , 2015 , 589, 309-314	2.2	2
62	Photovoltaic Performance and Interface Behaviors of Cu(In,Ga)Se2 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
61	Na-Dependent Ultrafast Carrier Dynamics of CdS/Cu(In,Ga)Se2 Measured by Optical Pump-Terahertz Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20231-20236	3.8	15
60	Flexible solar cells with a Cu(In,Ga)Se2 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

59	Characteristics of temperature and wavelength dependence of CuInSe2 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
58	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
57	Na effect on flexible Cu(In,Ga)Se2 photovoltaic cell depending on diffusion barriers (SiOx, i-ZnO) on stainless steel. <i>Materials Chemistry and Physics</i> , 2014 , 147, 783-787	4.4	12
56	Junction formation at the interface of CdS/CuInxGa(1 🛭)Se2. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 345302	3	18
55	Accurate quantification of Cu(In,Ga)Se2 films by AES depth profiling analysis. <i>Applied Surface Science</i> , 2013 , 282, 777-781	6.7	5
54	Photovoltaic performance of flexible Cu(In,Ga)Se2 thin-film solar cells with varying Cr impurity barrier thickness. <i>Current Applied Physics</i> , 2013 , 13, 2033-2037	2.6	13
53	Electrical and optical properties of radio frequency magnetron-sputtered lightly aluminum-doped zinc oxide thin films deposited in hydrogen gas. <i>Thin Solid Films</i> , 2013 , 540, 142-145	2.2	2
52	ZnS buffer layer prepared by sulfurization of sputtered Zn film for Cu(In, Ga)Se2 solar cells 2013 ,		1
51	Influence of growth temperature of transparent conducting oxide layer on Cu(In,Ga)Se2 thin-film solar cells. <i>Thin Solid Films</i> , 2012 , 520, 2115-2118	2.2	31
50	Effect of NaF precursor on preferential growth of Cu(In,Ga)Se2 thin films. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1517-1520	0.6	2
49	Interface characteristics of CdS/Cu(In,Ga)Se2 thin-film solar cells by using photoreflectance spectroscopy. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1623-1627	0.6	3
48	Electronic effect of Na on Cu(In,Ga)Se2 solar cells. <i>Applied Physics Letters</i> , 2012 , 101, 023901	3.4	47
47	Effect of Se flux on CuIn1-xGaxSe2 film in reactive sputtering process. <i>Progress in Photovoltaics: Research and Applications</i> , 2012 , 20, 899-903	6.8	16
46	Quantitative analysis of Cu(In,Ga)Se2thin films by secondary ion mass spectrometry using a total number counting method. <i>Metrologia</i> , 2012 , 49, 522-529	2.1	8
45	Photoreflectance characteristics of chemical-bath-deposited-CdS layer in Cu(In,Ga)Se2 thin-film solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 04D116	2.9	5
44	Effect of annealing on CdS/Cu(In,Ga)Se2 thin-film solar cells. <i>Current Applied Physics</i> , 2011 , 11, S65-S67	2.6	43
43	Dependence of Cu(In,Ga)Se2 Solar Cell Performance on Cd Solution Treatment Conditions. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 551, 221-227	0.5	3
42	The thickness effect of SiOx layer in CIGS thin-film solar cells fabricated on stainless-steel substrate 2010 ,		1

(2005-2010)

41	Analysis of the Current-voltage Curves of a Cu(In,Ga)Se2 Thin-film Solar Cell Measured at Different Irradiation Conditions. <i>Journal of the Optical Society of Korea</i> , 2010 , 14, 321-325		10
40	Incorporation of Cu in Cu(In,Ga)Se2-based Thin-film Solar Cells. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1826-1830	0.6	33
39	60-GHz System-on-Packaging Transmitter for Radio-Over-Fiber Applications. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2379-2387	4	7
38	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
37	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
36	A monolithic electro-absorption duplexer (EAD) integrated with a spot size converter. <i>Semiconductor Science and Technology</i> , 2008 , 23, 015005	1.8	
35	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	О
34	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
33	. IEEE Journal of Selected Topics in Quantum Electronics, 2006 , 12, 1017-1024	3.8	5
32	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
31	Fabrication and characterization of a spot-size converter-integrated 1.3 \(\bar{\textsf{\textsf{p}}} \mathbf{m} \) FP laser diode. Semiconductor Science and Technology, 2006 , 21, 790-793	1.8	2
30	Low phase-noise 40 GHz optical pulses from a self-starting electroabsorption-modulator-based optoelectronic oscillator 2006 ,		1
29	Analysis of Crosstalk and Impedance Matching for 60 GHz Band Electro-Absorption Duplexer (EAD) Module 2006 ,		1
28	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
27	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
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	Analog RF-optic performance of 60 GHz electroabsorption duplexer module 2006 , 6352, 830		
24	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

23	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
22	Characteristics of radio-over-fiber link with 60-GHz narrow band electroabsorption modulator 2005		1
21	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
20	Optimization of Packaging Design of TWEAM Module for Digital and Analog Applications. <i>ETRI Journal</i> , 2004 , 26, 589-596	1.4	11
19	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	
18	Monolithic integration of thin film Eheater array with 4-channel WDM transmitter. <i>Microelectronics Journal</i> , 2004 , 35, 203-206	1.8	1
17	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
16	Spontaneous N incorporation onto a Si(100) surface. <i>Physical Review Letters</i> , 2003 , 90, 106101	7.4	37
15	Chemical configuration of nitrogen in ultrathin Si oxynitride on Si(100). Physical Review B, 2002, 66,	3.3	38
14	Adsorption and reaction of NO on the Si(001) surface. <i>Physical Review B</i> , 2002 , 65,	3.3	26
13	Growth of epitaxial EAl2O3(111) films using an oxidized Si(111) substrate. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2559-2562		8
12	Effect of oxidized Al prelayer for the growth of polycrystalline Al2O3 films on Si using ionized beam		
	deposition. <i>Thin Solid Films</i> , 2001 , 388, 290-294	2.2	9
11	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
10	XPS core-level shifts and XANES studies of CuPt and CoPt alloys. Surface and Interface Analysis,		
	XPS core-level shifts and XANES studies of CuPt and CoPt alloys. Surface and Interface Analysis, 2000, 30, 475-478 Grain boundary diffusion of Cu in TiN film by X-ray photoelectron spectroscopy. Applied Physics A:	1.5	43
10	XPS core-level shifts and XANES studies of CuPt and CoPt alloys. Surface and Interface Analysis, 2000, 30, 475-478 Grain boundary diffusion of Cu in TiN film by X-ray photoelectron spectroscopy. Applied Physics A: Materials Science and Processing, 2000, 70, 431-434 X-ray absorption spectroscopy of Ag-Cr and Pd-Cr alloys formed by ion-beam-mixing. Applied	1.5 2.6	43
10	XPS core-level shifts and XANES studies of CuPt and CoPt alloys. Surface and Interface Analysis, 2000, 30, 475-478 Grain boundary diffusion of Cu in TiN film by X-ray photoelectron spectroscopy. Applied Physics A: Materials Science and Processing, 2000, 70, 431-434 X-ray absorption spectroscopy of Ag-Cr and Pd-Cr alloys formed by ion-beam-mixing. Applied Physics A: Materials Science and Processing, 2000, 70, 59-63 Comparison of titanium oxide films grown on bare glass and boiled glass in 50% H2SO4 by metal-organic chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum,	1.52.62.6	43 19 7

LIST OF PUBLICATIONS

5	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	18
4	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, 2013-201	6 ¹
3	Modeling of Traveling Wave Electro-absorption Modulator for High Speed Optical Communication Systems	1
2	System-on-packaging with electro-absorption modulator for 60 GHz band radio-over-fiber link	1
1	Fabrication and characteristics of traveling-wave electro-absorption modulator (TWEAM) modules	4