## Hyo Sik Chang

## List of Publications by Citations

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49 291 2.9 avg, IF L-index

#	Paper	IF	Citations
44	Excellent thermal stability of Al2O3/ZrO2/Al2O3 stack structure for metalbxideBemiconductor gate dielectrics application. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3385-3387	3.4	25
43	Investigation of the initial stage of growth of HfO2 films on Si(100) grown by atomic-layer deposition using in situ medium energy ion scattering. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 031906	3.4	18
42	Plasma nitridation of atomic layer deposition (ALD) Al2O3 by NH3 in plasma-enhanced chemical vapor deposition (PECVD) for silicon solar cell. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 1096-1099	4.4	16
41	The fabrication of front electrodes of Si solar cell by dispensing printing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2012</b> , 177, 217-222	3.1	16
40	Atomic transport and stability during annealing of HfO2 and HfAlO with an ultrathin layer of SiO2 on Si(001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 165-169	2.9	16
39	Analysis of electrical and thermal characteristics of PV array under mismatching conditions caused by partial shading and short circuit failure of bypass diodes. <i>Energy</i> , <b>2021</b> , 218, 119480	7.9	13
38	Enhancement in Photoelectrochemical Performance of Optimized Amorphous SnS Thin Film Fabricated through Atomic Layer Deposition. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
37	Thermal stability and decomposition of the HfO2Al2O3 laminate system. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 28-30	3.4	12
36	Effect of Si lattice strain on the reliability characteristics of ultrathin SiO2 on a 4\(^1\)tilted wafer. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 386-388	3.4	11
35	Efficient photo charge transfer of Al-doped ZnO inverse opal shells in SnS2 photoanodes prepared by atomic layer deposition. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 153349	5.7	10
34	Passivation performance improvement of ultrathin ALD-Al2O3 film by chemical oxidation. <i>Vacuum</i> , <b>2018</b> , 149, 180-184	3.7	9
33	Characterization of Atomic-Layer-Deposited (ALD) Al2O3-Passivated Sub-50-fh-thick Kerf-less Si Wafers by Controlled Spalling. <i>Electronic Materials Letters</i> , <b>2018</b> , 14, 363-369	2.9	7
32	Enhanced Piezoelectric Output Performance of the SnS/SnS Heterostructure Thin-Film Piezoelectric Nanogenerator Realized by Atomic Layer Deposition. <i>ACS Nano</i> , <b>2021</b> , 15, 10428-10436	16.7	7
31	Selective deposition contact patterning using atomic layer deposition for the fabrication of crystalline silicon solar cells. <i>Thin Solid Films</i> , <b>2014</b> , 568, 1-5	2.2	5
30	Effects of plasma-enhanced chemical vapor deposition (PECVD) on the carrier lifetime of Al2O3 passivation stack. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 67, 995-1000	0.6	5
29	Enhancement of Data Retention Time for 512-Mb DRAMs Using High-Pressure Deuterium Annealing. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 3599-3601	2.9	5
28	Enhanced boron gettering effect of n-type solar grade Si wafers by in situ oxidation. <i>Metals and Materials International</i> , <b>2013</b> , 19, 1377-1380	2.4	4

27	Effect of passivation process in upgraded metallurgical grade (UMG)-silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 63-65	6.4	4	
26	Three-dimensional nanoporous SnO2/CdS heterojunction for high-performance photoelectrochemical water splitting. <i>Applied Surface Science</i> , <b>2021</b> , 560, 149904	6.7	4	
25	Use of antireflection layers to avoid ghost plating on Ni/Cu plated crystalline silicon solar cells. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 036502	1.4	3	
24	Antimony as a Proper Candidate for Low-Temperature Solid Phase Epitaxially Activated n[sup +]/p Junctions. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, G216		3	
23	Bismuth ion-implanted solid-phase epitaxially grown shallow junction for metal®xideBemiconductor field-effect transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 032104	3.4	3	
22	Passivation improvement of nitric acid oxide by ozone post-treatment for tunnel oxide passivated contacts silicon solar cells. <i>Applied Surface Science</i> , <b>2019</b> , 489, 330-335	6.7	2	
21	Characteristics of surface passivation of ozone- and water-based Al2O3 films grown by atomic layer deposition for silicon solar cells. <i>Thin Solid Films</i> , <b>2018</b> , 649, 57-60	2.2	2	
20	Effects of initial growth mode on the electrical properties of atomic-layer-deposited Hfo2 films. <i>Electronic Materials Letters</i> , <b>2009</b> , 5, 187-190	2.9	2	
19	Nearly zero reflectance of nano-pyramids and dual-antireflection coating structure for monocrystalline silicon solar cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 3680-3	1.3	2	
18	Heterojunction Solar Cell with Carrier Selective Contact Using MoOx Deposited by Atomic Layer Deposition. <i>Korean Journal of Materials Research</i> , <b>2019</b> , 29, 322-327	0.2	2	
17	Electrical Characteristics of c-Si Shingled Photovoltaic Module Using Conductive Paste based on SnBiAg. <i>Korean Journal of Materials Research</i> , <b>2018</b> , 28, 528-533	0.2	2	
16	Relation of lifetime to surface passivation for atomic-layer-deposited Al2O3 on crystalline silicon solar cell. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2015</b> , 193, 160-163	3.1	1	
15	Characterization and Cell Performance of Al Paste with an Inorganic Binder of Bi2O3 <b>B</b> 2O3 <b>I</b> nO System in Si Solar Cells. <i>Current Nanoscience</i> , <b>2014</b> , 10, 66-69	1.4	1	
14	Reduction of surface reflectivity in multi-crystalline silicon solar cells by wet nano-texturing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 2097-2100		1	
13	Improvement in Conversion Efficiency of Multicrystalline Silicon Solar Cells Using Efficient Hydrogen Treatment. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, B127		1	
12	Ultrathin nitrided-nanolaminate (Al2O3/ZrO2/Al2O3) for metalBxideBemiconductor gate dielectric applications. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 1143		1	
11	Analysis of Output Characteristics of Lead-free Ribbon based PV Module Using Conductive Paste. Journal of the Korean Solar Energy Society, <b>2018</b> , 38, 45-55	0.1	1	
10	A Study on the Thermal Stability of an Al2O3/SiON Stack Structure for c-Si Solar Cell Passivation Application. <i>Journal of the Korean Ceramic Society</i> , <b>2014</b> , 51, 197-200	2.2	1	

9	c-Si Solar Cell Applications. <i>Journal of the Korean Institute of Electrical and Electronic Material Engineers</i> , <b>2015</b> , 28, 665-669		1
8	Charge Transporting Materials Grown by Atomic Layer Deposition in Perovskite Solar Cells. <i>Energies</i> , <b>2021</b> , 14, 1156	3.1	O
7	SiC Powder Manufacturing through Silicon Recovery from Waste Si Solar Cells. <i>Journal of the Korean Solar Energy Society</i> , <b>2021</b> , 41, 173-180	0.1	0
6	Change in atomic layer deposited Al2O3 passivation characteristics by ozone concentration. <i>Thin Solid Films</i> , <b>2019</b> , 690, 137539	2.2	
5	Effect of the Molar Ratio of B2O3to Bi2O3in Al Paste with Bi2O3B2O3InO Glass on Screen Printed Contact Formation and Si Solar Cell Performance. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 10MB22	1.4	
4	Analysis of Soiling for the Installation Direction of PV Module. New & Renewable Energy, 2020, 16, 76-8	<b>2</b> o.4	
3	Characteristics on Silicon Oxynitride Stack Layer of ALD-Al2O2 Passivation Layer for c-Si Solar Cell. <i>Korean Journal of Materials Research</i> , <b>2015</b> , 25, 233-237	0.2	
2	Atomic Layer Deposition of HfO2Films on Ge. <i>Applied Science and Convergence Technology</i> , <b>2014</b> , 23, 40-43	0.8	
1	Kerfless Si Wafering Using Al Metal Paste, Epoxy and Ni Electroplating as Stress-Induced Layer.  Journal of Korean Institute of Metals and Materials, 2022, 60, 370-375	1	