Seongtak Kim

List of Publications by Year in Descending Order

21 papers	744 citations	11 h-index	21 g-index
21 ext. papers	878 ext. citations	3.5 avg, IF	3.38 L-index

#	Paper	IF	Citations
21	Perovskites fabricated on textured silicon surfaces for tandem solar cells. *Communications Chemistry*, **2020**, 3,	6.3	17
20	Conformal perovskite films on 100□cm2 textured silicon surface using two-step vacuum process. *Thin Solid Films*, **2020**, 693, 137694	2.2	10
19	Sputtering of TiO2 for High-Efficiency Perovskite and 23.1% Perovskite/Silicon 4-Terminal Tandem Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 6263-6268	6.1	11
18	Analysis of degradation in 25-year-old field-aged crystalline silicon solar cells. *Microelectronics Reliability*, **2019**, 100-101, 113392	1.2	4
17	Enhanced UV stability of perovskite solar cells with a SrO interlayer. *Organic Electronics*, **2018**, 63, 343-348	3.5	19
16	Potential induced degradation of n-type crystalline silicon solar cells with p+ front junction. *Energy Science and Engineering*, **2017**, 5, 30-37	3.4	30
15	Effects of Plasma Enhanced Chemical Vapor Deposition Radio Frequency on the Properties of SiNx:H Films. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 4687-4693	1.3	
14	Characterization of Methylammonium Lead Iodide Perovskite Solar Cells by Surface Morphology Changes. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 4817-4821	1.3	1
13	Relationship between ion migration and interfacial degradation of CHNHPbI perovskite solar cells under thermal conditions. *Scientific Reports*, **2017**, 7, 1200	4.9	93
12	Investigation of Thermally Induced Degradation in CHNHPbI Perovskite Solar Cells using In-situ Synchrotron Radiation Analysis. *Scientific Reports*, **2017**, 7, 4645	4.9	135
11	Improved performance and thermal stability of perovskite solar cells prepared via a modified sequential deposition process. *Organic Electronics*, **2017**, 41, 266-273	3.5	20
10	UV Degradation and Recovery of Perovskite Solar Cells. *Scientific Reports*, **2016**, 6, 38150	4.9	195
9	Electric-Field-Induced Degradation of Methylammonium Lead Iodide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 3091-6	6.4	123
8	Nano-glass frit for inkjet printed front side metallization of silicon solar cells prepared by sol□gel process. *Physica Status Solidi - Rapid Research Letters*, **2015**, 9, 293-296	2.5	3
7	Migration of Sn and Pb from Solder Ribbon onto Ag Fingers in Field-Aged Silicon Photovoltaic Modules. *International Journal of Photoenergy*, **2015**, 2015, 1-7	2.1	6
6	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 19043-9	9.5	41
5	The degradation of multi-crystalline silicon solar cells after damp heat tests. *Microelectronics Reliability*, **2014**, 54, 2176-2179	1.2	14

4	Influence of SiNx:H film properties according to gas mixture ratios for crystalline silicon solar cells. *Current Applied Physics*, **2013**, 13, 241-245	2.6	2
3	Improvement of electrical properties in screen-printed crystalline silicon solar cells by contact treatment of the grid edge. *Metals and Materials International*, **2013**, 19, 1333-1338	2.4	8
2	Effects of rapid thermal process on the junction properties of aluminum rear emitter solar cells. *Metals and Materials International*, **2012**, 18, 731-734	2.4	4
1	Effect of High-Temperature Annealing on Ion-Implanted Silicon Solar Cells. *International Journal of Photoenergy*, **2012**, 2012, 1-6	2.1	8