

# Soohyun Bae

## List of Publications by Citations

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30  
papers

591  
citations

9  
h-index

24  
g-index

34  
ext. papers

724  
ext. citations

3.9  
avg, IF

3.47  
L-index

#	Paper	IF	Citations
30	UV Degradation and Recovery of Perovskite Solar Cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 38150	4.9	195
29	Electric-Field-Induced Degradation of Methylammonium Lead Iodide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3091-6	6.4	123
28	Relationship between ion migration and interfacial degradation of CHNHPbI perovskite solar cells under thermal conditions. <i>Scientific Reports</i> , <b>2017</b> , 7, 1200	4.9	93
27	Potential induced degradation of n-type crystalline silicon solar cells with p+ front junction. <i>Energy Science and Engineering</i> , <b>2017</b> , 5, 30-37	3.4	30
26	Role of polysilicon in poly-Si/SiO passivating contacts for high-efficiency silicon solar cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 23261-23266	3.7	19
25	Pinhole-free TiO/Ag/ZnO configuration for flexible perovskite solar cells with ultralow optoelectrical loss.. <i>RSC Advances</i> , <b>2019</b> , 9, 9160-9170	3.7	18
24	Perovskites fabricated on textured silicon surfaces for tandem solar cells. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	17
23	Layer-by-Layer Self-Assembly of Hollow Nitrogen-Doped Carbon Quantum Dots on Cationized Textured Crystalline Silicon Solar Cells for an Efficient Energy Down-Shift. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10369-10381	9.5	15
22	Sputtering of TiO <sub>2</sub> for High-Efficiency Perovskite and 23.1% Perovskite/Silicon 4-Terminal Tandem Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6263-6268	6.1	11
21	Tunnel oxide passivating electron contacts for high-efficiency n-type silicon solar cells with amorphous silicon passivating hole contacts. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2019</b> , 27, 1104-1114	6.8	9
20	Impact of Buffer Layer Process and Na on Shunt Paths of Monolithic Series-connected CIGSSe Thin Film Solar Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 3666	4.9	8
19	Improvement of electrical properties in screen-printed crystalline silicon solar cells by contact treatment of the grid edge. <i>Metals and Materials International</i> , <b>2013</b> , 19, 1333-1338	2.4	8
18	Properties of Thermally Evaporated Titanium Dioxide as an Electron-Selective Contact for Silicon Solar Cells. <i>Energies</i> , <b>2020</b> , 13, 678	3.1	7
17	Migration of Sn and Pb from Solder Ribbon onto Ag Fingers in Field-Aged Silicon Photovoltaic Modules. <i>International Journal of Photoenergy</i> , <b>2015</b> , 2015, 1-7	2.1	6
16	. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 1545-1551	3.7	5
15	Effective Additive-Free Acidic-Solution Texturing for Surface-Damage-Free Kerfless Silicon Wafers. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 431-437	3.7	4
14	Effects of rapid thermal process on the junction properties of aluminum rear emitter solar cells. <i>Metals and Materials International</i> , <b>2012</b> , 18, 731-734	2.4	4

13	Effects of Annealing on Firing Stability of a Al <sub>2</sub> O <sub>3</sub> /SiN <sub>x</sub> Stack Passivation Layer for Crystalline Silicon Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 5050-5054	1.3	3
12	Effective Contact Formation Method on High-Sheet-Resistance Boron-Doped Emitter With Current Injection. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 615-620	3.7	3
11	19.2%-Efficient Multicrystalline Silicon Solar Cells via Additive-Free Mechanical Grinding Surface Pretreatment for Diamond-Wire-Sawn Wafers. <i>IEEE Journal of Photovoltaics</i> , <b>2021</b> , 11, 36-42	3.7	3
10	Surface Passivation of Boron Emitters on n-Type Silicon Solar Cells. <i>Sustainability</i> , <b>2019</b> , 11, 3784	3.6	2
9	Characterization of Potential-Induced Degradation and Recovery in CIGS Solar Cells. <i>Energies</i> , <b>2021</b> , 14, 4628	3.1	2
8	Effective Surface Texturing of Diamond-Wire-Sawn Multicrystalline Silicon Wafers Via Crystallization of the Native Surface Amorphous Layer. <i>IEEE Journal of Photovoltaics</i> , <b>2021</b> , 11, 43-49	3.7	2
7	Characterization of Methylammonium Lead Iodide Perovskite Solar Cells by Surface Morphology Changes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 4817-4821	1.3	1
6	Effects of Pre-annealing on Firing Stability of Atomic Layer-Deposited Al <sub>2</sub> O <sub>3</sub> . <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 1075-1080	3.4	1
5	Variations in Minority Carrier-Trapping Effects Caused by Hydrogen Passivation in Multicrystalline Silicon Wafer. <i>Energies</i> , <b>2020</b> , 13, 5783	3.1	1
4	Lowering firing temperature of a p-type passivated emitter rear contact Si solar cell via current injection. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 239, 111587	6.4	1
3	Effects of Plasma Enhanced Chemical Vapor Deposition Radio Frequency on the Properties of SiN <sub>x</sub> :H Films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 4687-4693	1.3	
2	Pre-Texturing Thermal Treatment for Saw-Damage-Removal-Free Wet Texturing of Monocrystalline Silicon Wafers. <i>Energies</i> , <b>2020</b> , 13, 6610	3.1	
1	Effective Recycling Method for Silicon Photovoltaic Modules With Electrical Sacrificial Layer. <i>IEEE Journal of Photovoltaics</i> , <b>2022</b> , 1-6	3.7	