

# Yoonmook Kang

## List of Publications by Citations

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40  
papers

804  
citations

11  
h-index

28  
g-index

42  
ext. papers

962  
ext. citations

5.3  
avg, IF

4.01  
L-index

#	Paper	IF	Citations
40	UV Degradation and Recovery of Perovskite Solar Cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 38150	4.9	195
39	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
38	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
37	Well-aligned CdS nanorod/conjugated polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 166-174	6.4	90
36	Historical Analysis of High-Efficiency, Large-Area Solar Cells: Toward Upscaling of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002202	24	45
35	Passivation properties of tunnel oxide layer in passivated contact silicon solar cells. <i>Applied Surface Science</i> , <b>2017</b> , 409, 140-148	6.7	31
34	Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902389	21.8	28
33	Achievement of 17.9% efficiency in 30 B0 cm <sup>2</sup> Cu(In,Ga)(Se,S) <sub>2</sub> solar cell sub-module by sulfurization after selenization with Cd-free buffer. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2016</b> , 24, 175-182	6.8	21
32	Perovskites fabricated on textured silicon surfaces for tandem solar cells. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	17
31	Effects of the Cu/(Ga+In) ratio on the bulk and interface properties of Cu(InGa)(SSe) <sub>2</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 149, 195-203	6.4	15
30	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
29	Effects of annealing on ion-implanted Si for interdigitated back contact solar cell. <i>Current Applied Physics</i> , <b>2012</b> , 12, 1615-1618	2.6	11
28	Direct evidence of void passivation in Cu(InGa)(SSe) <sub>2</sub> absorber layers. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 083903	3.4	10
27	Influence of laser damage on the performance of selective emitter solar cell fabricated using laser doping process. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 132, 215-220	6.4	10
26	Conformal perovskite films on 100 $\mu$ m <sup>2</sup> textured silicon surface using two-step vacuum process. <i>Thin Solid Films</i> , <b>2020</b> , 693, 137694	2.2	10
25	Simulation of interdigitated back contact solar cell with trench structure. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 074503	2.5	9
24	Continuously deposited anti-reflection double layer of silicon nitride and silicon oxynitride for selective emitter solar cells by PECVD. <i>Current Applied Physics</i> , <b>2017</b> , 17, 517-521	2.6	8

23	Impact of Buffer Layer Process and Na on Shunt Paths of Monolithic Series-connected CIGS <sub>Se</sub> Thin Film Solar Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 3666	4.9	8
22	Recent Progress in Interconnection Layer for Hybrid Photovoltaic Tandems. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002196	24	8
21	Carbon Nanotube Electrode-Based Perovskite/Silicon Tandem Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000353	7.1	8
20	Characterization of SiN <sub>x</sub> :H thin film as a hydrogen passivation layer for silicon solar cells with passivated contacts. <i>Thin Solid Films</i> , <b>2019</b> , 675, 109-114	2.2	7
19	Enhancement of the photo conversion efficiencies in Cu(In,Ga)(Se,S) <sub>2</sub> solar cells fabricated by two-step sulfurization process. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 193901	3.4	6
18	Potential of chemical rounding for the performance enhancement of pyramid textured p-type emitters and bifacial n-PERT Si cells. <i>Current Applied Physics</i> , <b>2018</b> , 18, 1268-1274	2.6	5
17	. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 1545-1551	3.7	5
16	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
15	Potential of NiO <sub>x</sub> /Nickel Silicide/n+ Poly-Si Contact for Perovskite/TOPCon Tandem Solar Cells. <i>Energies</i> , <b>2022</b> , 15, 870	3.1	4
14	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
13	Optimization of Controllable Factors in the Aluminum Silicon Eutectic Paste and Rear Silicon Nitride Mono-Passivation Layer of PERC Solar Cells. <i>Metals and Materials International</i> , <b>2018</b> , 24, 664-671	2.4	3
12	Influence of Particle Velocity of Copper on Emitter Contact by Cold-Spray Method. <i>Journal of Thermal Spray Technology</i> , <b>2016</b> , 25, 465-472	2.5	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	Minimizing Light-Induced Degradation of the Al <sub>2</sub> O <sub>3</sub> Rear Passivation Layer for Highly Efficient PERC Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q253-Q258	2	3
9	Absorber Delamination-Induced Shunt Defects in Alcohol-Based Solution-Processed Cu(In,Ga)(S,Se) <sub>2</sub> Solar Modules. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10384-10392	6.1	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	Rapid and Accurate Measurement of Ideality Factor and Parasitic Resistances of Thin Film Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q105-Q108	2	1
6	Structural, electrical, and optical properties of ZnIn <sub>2</sub> Sn <sub>2</sub> O films for silicon heterojunction solar cells. <i>Thin Solid Films</i> , <b>2015</b> , 589, 233-237	2.2	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	Utilization of Multifunctional Environment-Friendly Organic Dopants Inspired from Nature for Carbon Nanotube-Based Planar Heterojunction Silicon Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2100155	1.6	0
3	Damage and residual layer analysis of reactive ion etching textured multi-crystalline silicon wafer for application to solar cells. <i>Solar Energy</i> , <b>2022</b> , 233, 111-117	6.8	0
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	Investigation of Optimum Conditions for Synthesis of Cu(In,Ga)Se <sub>2</sub> Nanoparticles by Refluxing. <i>Journal of the Korean Physical Society</i> , <b>2020</b> , 76, 527-532	0.6	