

Jae-Won Song

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Sulfur-Enhanced Field-Effect Passivation using (NH ₄) ₂ S Surface Treatment for Black Si Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 25140-25146.	8.0	11
2	Effects of surface nanostructuring and impurity doping on ultrafast carrier dynamics of silicon photovoltaic cells: a pump-probe study. Journal Physics D: Applied Physics, 2018, 51, 024004.	2.8	1
3	Novel field-effect passivation for nanostructured Si solar cells using interfacial sulfur incorporation. Progress in Photovoltaics: Research and Applications, 2017, 25, 376-383.	8.1	3
4	Ultrathin Al ₂ O ₃ interface achieving an 11.46% efficiency in planar n-Si/PEDOT:PSS hybrid solar cells. Nanotechnology, 2017, 28, 155402.	2.6	22
5	Planar n-Si/PEDOT:PSS hybrid heterojunction solar cells utilizing functionalized carbon nanoparticles synthesized via simple pyrolysis route. Nanotechnology, 2017, 28, 475402.	2.6	10
6	Toward a planar black silicon technology for 50 μ m-thin crystalline silicon solar cells. Optics Express, 2016, 24, A1224.	3.4	9
7	Improved photoelectrochemical hydrogen evolution using a defect-passivated Al ₂ O ₃ thin film on p-Si. Thin Solid Films, 2016, 616, 550-554.	1.8	12
8	Photoelectrochemical oxygen evolution improved by a thin Al ₂ O ₃ interlayer in a NiOx/n-Si photoanode. Thin Solid Films, 2016, 599, 54-58.	1.8	36
9	Hydroxyl functionalization improves the surface passivation of nanostructured silicon solar cells degraded by epitaxial regrowth. RSC Advances, 2015, 5, 39177-39181.	3.6	6
10	Degradation Mechanism of Al ₂ O ₃ Passivation in Nanostructured Si Solar Cells. Advanced Materials Interfaces, 2014, 1, 1400010.	3.7	12
11	Long-term durable silicon photocathode protected by a thin Al ₂ O ₃ /SiO _x layer for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2014, 2, 2928.	10.3	93