

Jae-Won Song

List of Publications by Year in descending order

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papers

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449
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#	ARTICLE	IF	CITATIONS
1	Long-term durable silicon photocathode protected by a thin Al ₂ O ₃ /SiO _x layer for photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2928.	10.3	93
2	Photoelectrochemical oxygen evolution improved by a thin Al ₂ O ₃ interlayer in a NiO _x /n-Si photoanode. <i>Thin Solid Films</i> , 2016, 599, 54-58.	1.8	36
3	Ultrathin Al ₂ O ₃ interface achieving an 11.46% efficiency in planar n-Si/PEDOT:PSS hybrid solar cells. <i>Nanotechnology</i> , 2017, 28, 155402.	2.6	22
4	Degradation Mechanism of Al ₂ O ₃ Passivation in Nanostructured Si Solar Cells. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400010.	3.7	12
5	Improved photoelectrochemical hydrogen evolution using a defect-passivated Al ₂ O ₃ thin film on p-Si. <i>Thin Solid Films</i> , 2016, 616, 550-554.	1.8	12
6	Sulfur-Enhanced Field-Effect Passivation using (NH ₄) ₂ S Surface Treatment for Black Si Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25140-25146.	8.0	11
7	Planar n-Si/PEDOT:PSS hybrid heterojunction solar cells utilizing functionalized carbon nanoparticles synthesized via simple pyrolysis route. <i>Nanotechnology</i> , 2017, 28, 475402.	2.6	10
8	Toward a planar black silicon technology for 50 μ m-thin crystalline silicon solar cells. <i>Optics Express</i> , 2016, 24, A1224.	3.4	9
9	Hydroxyl functionalization improves the surface passivation of nanostructured silicon solar cells degraded by epitaxial regrowth. <i>RSC Advances</i> , 2015, 5, 39177-39181.	3.6	6
10	Novel field-effect passivation for nanostructured Si solar cells using interfacial sulfur incorporation. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 376-383.	8.1	3
11	Effects of surface nanostructuring and impurity doping on ultrafast carrier dynamics of silicon photovoltaic cells: a pump-probe study. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 024004.	2.8	1