## Ik Jae Park

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Efficient, stable silicon tandem cells enabled by anion-engineered wide-bandgap perovskites. Science, 2020, 368, 155-160.	12.6	420
2	Boosting the solar water oxidation performance of a BiVO <sub>4</sub> photoanode by crystallographic orientation control. Energy and Environmental Science, 2018, 11, 1299-1306.	30.8	330
3	An ultra-thin, un-doped NiO hole transporting layer of highly efficient (16.4%) organic–inorganic hybrid perovskite solar cells. Nanoscale, 2016, 8, 11403-11412.	5.6	307
4	300% Enhancement of Carrier Mobility in Uniaxialâ€Oriented Perovskite Films Formed by Topotacticâ€Oriented Attachment. Advanced Materials, 2017, 29, 1606831.	21.0	120
5	Tailoring of Electron-Collecting Oxide Nanoparticulate Layer for Flexible Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 1845-1851.	4.6	93
6	Zn <sub>2</sub> SnO <sub>4</sub> -Based Photoelectrodes for Organolead Halide Perovskite Solar Cells. Journal of Physical Chemistry C, 2014, 118, 22991-22994.	3.1	92
7	Crystallographically preferred oriented TiO2 nanotube arrays for efficient photovoltaic energy conversion. Energy and Environmental Science, 2012, 5, 7989.	30.8	88
8	Highly Efficient and Uniform 1â€cm <sup>2</sup> Perovskite Solar Cells with an Electrochemically Deposited NiO <sub><i>x</i></sub> Holeâ€Extraction Layer. ChemSusChem, 2017, 10, 2660-2667.	6.8	84
9	A Three-Terminal Monolithic Perovskite/Si Tandem Solar Cell Characterization Platform. Joule, 2019, 3, 807-818.	24.0	78
10	New Hybrid Hole Extraction Layer of Perovskite Solar Cells with a Planar p–i–n Geometry. Journal of Physical Chemistry C, 2015, 119, 27285-27290.	3.1	71
11	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 33835-33843.	8.0	67
12	A tree-like nanoporous WO <sub>3</sub> photoanode with enhanced charge transport efficiency for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2015, 3, 12920-12926.	10.3	60
13	Luminescence properties of Ca5(PO4)2SiO4:Eu2+ green phosphor for near UV-based white LED. Materials Letters, 2012, 70, 37-39.	2.6	58
14	Near-complete charge separation in tailored BiVO4-based heterostructure photoanodes toward artificial leaf. Applied Catalysis B: Environmental, 2021, 293, 120217.	20.2	57
15	Effect of Rubidium Incorporation on the Structural, Electrical, and Photovoltaic Properties of Methylammonium Lead lodide-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 41898-41905.	8.0	51
16	Anatase TiO2 nanorod-decoration for highly efficient photoenergy conversion. Nanoscale, 2013, 5, 11725.	5.6	44
17	Tailoring uniform Î <sup>3</sup> -MnO2 nanosheets on highly conductive three-dimensional current collectors for high-performance supercapacitor electrodes. Nano Research, 2015, 8, 990-1004.	10.4	39
18	Surfaceâ€Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts. Small, 2022, 18, e2105611.	10.0	36

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19	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO <sub>2</sub> Nanorods Decorated by Edgeâ€Rich MoS <sub>2</sub> Nanoplates. Small, 2021, 17, e2103457.	10.0	35
20	Multifunctional nano-heterogeneous Ni(OH)2/NiFe catalysts on silicon photoanode toward efficient water and urea oxidation. Applied Catalysis B: Environmental, 2022, 317, 121765.	20.2	28
21	Enhanced electrical properties of Li–doped NiO x hole extraction layer in p–i–n type perovskite solar cells. Current Applied Physics, 2018, 18, S55-S59.	2.4	27
22	Roughness of Ti Substrates for Control of the Preferred Orientation of TiO <sub>2</sub> Nanotube Arrays as a New Orientation Factor. Journal of Physical Chemistry C, 2015, 119, 13297-13305.	3.1	26
23	Improved interfacial properties of electrodeposited Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> thinâ€film solar cells by a facile postâ€heat treatment process. Progress in Photovoltaics: Research and Applications, 2020, 28, 1345-1354.	8.1	26
24	Electrodeposited Heterogeneous Nickel-Based Catalysts on Silicon for Efficient Sunlight-Assisted Water Splitting. Cell Reports Physical Science, 2020, 1, 100219.	5.6	23
25	Anomalous potential dependence of conducting property in black titania nanotube arrays for electrocatalytic chlorine evolution. Journal of Catalysis, 2020, 381, 462-467.	6.2	21
26	Nanoscale photocurrent mapping in perovskite solar cells. Nano Energy, 2018, 48, 543-550.	16.0	19
27	CdS-sensitized 1-D single-crystalline anatase TiO2 nanowire arrays for photoelectrochemical hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 863-869.	7.1	18
28	Observation of anatase nanograins crystallizing from anodic amorphous TiO <sub>2</sub> nanotubes. CrystEngComm, 2015, 17, 7346-7353.	2.6	13
29	Electrochemical approach for preparing conformal methylammonium lead iodide layer. Electrochemistry Communications, 2019, 103, 120-126.	4.7	12
30	γ-Al2O3 nanospheres-directed synthesis of monodispersed BaAl2O4:Eu2+ nanosphere phosphors. CrystEngComm, 2013, 15, 4797.	2.6	11
31	Photovoltaic powered solar hydrogen production coupled with waste SO2 valorization enabled by MoP electrocatalysts. Applied Catalysis B: Environmental, 2022, 305, 121045.	20.2	11
32	Influence of Niobium Doping in Hierarchically Organized Titania Nanostructure on Performance of Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2012, 12, 5091-5095.	0.9	10
33	Bifunctional Graphene Oxide Hole-Transporting and Barrier Layers for Transparent Bifacial Flexible Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 8824-8831.	5.1	8
34	Rationally Designed Window Layers for High Efficiency Perovskite/Si Tandem Solar Cells. Advanced Optical Materials, 2021, 9, 2100788.	7.3	7
35	SnO 2 nanowires decorated with forsythia-like TiO 2 for photoenergy conversion. Materials Letters, 2017, 202, 48-51.	2.6	6
36	Thermal-assisted photo-annealed TiO2 thin films for perovskite solar cells fabricated under ambient air. Applied Surface Science, 2020, 530, 147221.	6.1	5

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37	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO <sub>2</sub> Nanorods Decorated by Edgeâ€Rich MoS <sub>2</sub> Nanoplates (Small 39/2021). Small, 2021, 17, 2170206.	10.0	1