

# Jin Hyun Kim

## List of Publications by Year in descending order

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34  
papers

3,644  
citations

279798

23  
h-index

395702

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

4564  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward practical solar hydrogen production – an artificial photosynthetic leaf-to-farm challenge. <i>Chemical Society Reviews</i> , 2019, 48, 1908-1971.	38.1	781
2	Boosting the performance of Cu <sub>2</sub> O photocathodes for unassisted solar water splitting devices. <i>Nature Catalysis</i> , 2018, 1, 412-420.	34.4	489
3	Elaborately Modified BiVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806938.	21.0	333
4	Hetero-type dual photoanodes for unbiased solar water splitting with extended light harvesting. <i>Nature Communications</i> , 2016, 7, 13380.	12.8	263
5	Wireless Solar Water Splitting Device with Robust Cobalt-Catalyzed, Dual-Doped BiVO <sub>4</sub> Photoanode and Perovskite Solar Cell in Tandem: A Dual Absorber Artificial Leaf. <i>ACS Nano</i> , 2015, 9, 11820-11829.	14.6	219
6	Defective ZnFe <sub>2</sub> O <sub>4</sub> nanorods with oxygen vacancy for photoelectrochemical water splitting. <i>Nanoscale</i> , 2015, 7, 19144-19151.	5.6	183
7	Benchmark performance of low-cost Sb <sub>2</sub> Se <sub>3</sub> photocathodes for unassisted solar overall water splitting. <i>Nature Communications</i> , 2020, 11, 861.	12.8	135
8	Carbonate-coordinated cobalt co-catalyzed BiVO <sub>4</sub> /WO <sub>3</sub> composite photoanode tailored for CO <sub>2</sub> reduction to fuels. <i>Nano Energy</i> , 2015, 15, 153-163.	16.0	113
9	Overall Photoelectrochemical Water Splitting using Tandem Cell under Simulated Sunlight. <i>ChemSusChem</i> , 2016, 9, 61-66.	6.8	112
10	BiVO <sub>4</sub> -Based Heterostructured Photocatalysts for Solar Water Splitting: A Review. <i>Energy and Environment Focus</i> , 2014, 3, 339-353.	0.3	96
11	Awakening Solar Water Splitting Activity of ZnFe <sub>2</sub> O <sub>4</sub> Nanorods by Hybrid Microwave Annealing. <i>Advanced Energy Materials</i> , 2015, 5, 1401933.	19.5	95
12	Bifunctional TiO <sub>2</sub> underlayer for Fe <sub>2</sub> O <sub>3</sub> nanorod based photoelectrochemical cells: enhanced interface and Ti <sup>4+</sup> doping. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5007-5013.	10.3	90
13	A versatile photoanode-driven photoelectrochemical system for conversion of CO <sub>2</sub> to fuels with high faradaic efficiencies at low bias potentials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2044.	10.3	85
14	Three Birds, One Stone Strategy for Hybrid Microwave Synthesis of Ta and Sn Codoped Fe <sub>2</sub> O <sub>3</sub> @FeTaO <sub>4</sub> Nanorods for Photoelectrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1805737.	14.9	79
15	Palladium oxide as a novel oxygen evolution catalyst on BiVO <sub>4</sub> photoanode for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2014, 317, 126-134.	6.2	65
16	Solar Water Splitting: Elaborately Modified BiVO <sub>4</sub> Photoanodes for Solar Water Splitting (Adv. Mater. 20/2019). <i>Advanced Materials</i> , 2019, 31, 1970146.	21.0	64
17	Ferrites: emerging light absorbers for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9447-9482.	10.3	61
18	Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity. <i>Advanced Functional Materials</i> , 2017, 27, 1702428.	14.9	52

#	ARTICLE	IF	CITATIONS
19	A precious metal-free solar water splitting cell with a bifunctional cobalt phosphide electrocatalyst and doubly promoted bismuth vanadate photoanode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1266-1274.	10.3	51
20	Precipitating Metal Nitrate Deposition of Amorphous Metal Oxyhydroxide Electrodes Containing Ni, Fe, and Co for Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9650-9662.	11.2	43
21	Ultrafast fabrication of highly active BiVO <sub>4</sub> photoanodes by hybrid microwave annealing for unbiased solar water splitting. <i>Nanoscale</i> , 2016, 8, 17623-17631.	5.6	40
22	An exceptionally facile method to produce layered double hydroxides on a conducting substrate and their application for solar water splitting without an external bias. <i>Energy and Environmental Science</i> , 2014, 7, 2301.	30.8	37
23	Immobilizing single atom catalytic sites onto highly reduced carbon hosts: Fe <sup>N<sub>4</sub></sup> /CNT as a durable oxygen reduction catalyst for Na <sup>+</sup> air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18891-18902.	10.3	31
24	Innovative strategies toward challenges in PV-powered electrochemical CO <sub>2</sub> reduction. <i>Journal of Energy Chemistry</i> , 2021, 60, 410-416.	12.9	23
25	All-Bismuth-Based Oxide Tandem Cell for Solar Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 6694-6699.	5.1	22
26	Seawater-Mediated Solar-to-Sodium Conversion by Bismuth Vanadate Photoanode- Photovoltaic Tandem Cell: Solar Rechargeable Seawater Battery. <i>IScience</i> , 2019, 19, 232-243.	4.1	16
27	ZnFe <sub>2</sub> O <sub>4</sub> Dendrite/SnO <sub>2</sub> Helix 3D Heterostructure Photoanodes for Enhanced Photoelectrochemical Water Splitting: Triple Functions of SnO <sub>2</sub> Nanohelix. <i>Small</i> , 2021, 17, e2103861.	10.0	14
28	Intentional Extrinsic Doping into ZnFe <sub>2</sub> O <sub>4</sub> Nanorod Photoanode for Enhanced Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2020, 4, 1900328.	5.8	13
29	Facile surfactant driven fabrication of transparent WO <sub>3</sub> photoanodes for improved photoelectrochemical properties. <i>Applied Catalysis A: General</i> , 2016, 521, 233-239.	4.3	10
30	Hetero-tandem organic solar cells drive water electrolysis with a solar-to-hydrogen conversion efficiency up to 10%. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121237.	20.2	8
31	Synthesis of high-purity, layered structured K <sub>2</sub> Ta <sub>4</sub> O <sub>11</sub> intermediate phase nanocrystals for photocatalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25831-25836.	2.8	7
32	Water Splitting: Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity ( <i>Adv. Funct. Mater.</i> 35/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	7
33	Perovskite Tandems Advance Solar Hydrogen Production. <i>Joule</i> , 2019, 3, 2892-2894.	24.0	7
34	Monolithic Solar Seawater Battery: Seawater-Mediated Solar-to-Sodium Conversion with 8.0 % Efficiency by Bismuth Vanadate Photoanode - Photovoltaic Tandem Cell. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0