## Ji-Wook Jang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
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ext. citations
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avg, IF
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#	Paper	IF	Citations
76	Single-crystalline, wormlike hematite photoanodes for efficient solar water splitting. <i>Scientific Reports</i> , <b>2013</b> , 3, 2681	4.9	519
75	Toward practical solar hydrogen production - an artificial photosynthetic leaf-to-farm challenge. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1908-1971	58.5	415
74	Phosphate doping into monoclinic BiVO4 for enhanced photoelectrochemical water oxidation activity. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 3147-51	16.4	364
73	Enabling unassisted solar water splitting by iron oxide and silicon. <i>Nature Communications</i> , <b>2015</b> , 6, 744	<b>7</b> 17.4	359
72	Fabrication of CaFe2O4/TaON heterojunction photoanode for photoelectrochemical water oxidation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5375-83	16.4	261
71	Hetero-type dual photoanodes for unbiased solar water splitting with extended light harvesting. <i>Nature Communications</i> , <b>2016</b> , 7, 13380	17.4	197
70	Wireless Solar Water Splitting Device with Robust Cobalt-Catalyzed, Dual-Doped BiVO4 Photoanode and Perovskite Solar Cell in Tandem: A Dual Absorber Artificial Leaf. <i>ACS Nano</i> , <b>2015</b> , 9, 11820-9	16.7	172
69	Carbon-doped ZnO nanostructures synthesized using vitamin C for visible light photocatalysis. CrystEngComm, <b>2010</b> , 12, 3929	3.3	162
68	Understanding the origin of photoelectrode performance enhancement by probing surface kinetics. <i>Chemical Science</i> , <b>2016</b> , 7, 3347-3354	9.4	147
67	Fabrication of CdS nanowires decorated with TiO2 nanoparticles for photocatalytic hydrogen production under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5975-5980	) <sup>6.</sup> 7	146
66	Defective ZnFe©Thanorods with oxygen vacancy for photoelectrochemical water splitting. <i>Nanoscale</i> , <b>2015</b> , 7, 19144-51	7.7	138
65	Three-dimensional type II ZnO/ZnSe heterostructures and their visible light photocatalytic activities. <i>Langmuir</i> , <b>2011</b> , 27, 10243-50	4	137
64	Precursor effects of citric acid and citrates on ZnO crystal formation. <i>Langmuir</i> , <b>2009</b> , 25, 3825-31	4	134
63	High-Performance Hydrogen Evolution by Ru Single Atoms and Nitrided-Ru Nanoparticles Implanted on N-Doped Graphitic Sheet. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900931	21.8	131
62	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO2 reduction system. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3597-3604	35.4	122
61	A highly efficient transition metal nitride-based electrocatalyst for oxygen reduction reaction: TiN on a CNTgraphene hybrid support. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8007	13	105
60	Improved photoelectrochemical activity of CaFe2O4/BiVO4 heterojunction photoanode by reduced surface recombination in solar water oxidation. <i>ACS Applied Materials &amp; Discounty (Company)</i> 17762-9	9 <sup>9.5</sup>	103

## (2009-2013)

59	Highly Efficient and Stable Cadmium Chalcogenide Quantum Dot/ZnO Nanowires for Photoelectrochemical Hydrogen Generation. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 184-189	9.6	96
58	A Stable and Efficient Hematite Photoanode in a Neutral Electrolyte for Solar Water Splitting: Towards Stability Engineering. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400476	21.8	89
57	Research Update: Strategies for efficient photoelectrochemical water splitting using metal oxide photoanodes. <i>APL Materials</i> , <b>2014</b> , 2, 010703	5.7	87
56	GrapheneBarbon nanotube composite as an effective conducting scaffold to enhance the photoelectrochemical water oxidation activity of a hematite film. <i>RSC Advances</i> , <b>2012</b> , 2, 9415	3.7	86
55	Awakening Solar Water-Splitting Activity of ZnFe2O4 Nanorods by Hybrid Microwave Annealing. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401933	21.8	85
54	Porous ZnO-ZnSe nanocomposites for visible light photocatalysis. <i>Nanoscale</i> , <b>2012</b> , 4, 2066-71	7.7	85
53	Exposed crystal face controlled synthesis of 3D ZnO superstructures. <i>Langmuir</i> , <b>2010</b> , 26, 14255-62	4	83
52	Phosphate Doping into Monoclinic BiVO4 for Enhanced Photoelectrochemical Water Oxidation Activity. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3201-3205	3.6	82
51	Tree branch-shaped cupric oxide for highly effective photoelectrochemical water reduction. <i>Nanoscale</i> , <b>2015</b> , 7, 7624-31	7.7	80
50	Mo-Compound/CNT-Graphene Composites as Efficient Catalytic Electrodes for Quantum-Dot-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300775	21.8	79
49	Observation and Alteration of Surface States of Hematite Photoelectrodes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17054-17059	3.8	79
48	Enhancing Charge Carrier Lifetime in Metal Oxide Photoelectrodes through Mild Hydrogen Treatment. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701536	21.8	78
47	Anion-Doped Mixed Metal Oxide Nanostructures Derived from Layered Double Hydroxide as Visible Light Photocatalysts. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2348-2356	15.6	75
46	Photoelectrochemical water splitting over ordered honeycomb hematite electrodes stabilized by alumina shielding. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6375-6382	35.4	75
45	Aqueous-solution route to zinc telluride films for application to COIFeduction. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5852-7	16.4	72
44	Key Strategies to Advance the Photoelectrochemical Water Splitting Performance of 于e2O3 Photoanode. <i>ChemCatChem</i> , <b>2019</b> , 11, 157-179	5.2	71
43	A novel role of three dimensional graphene foam to prevent heater failure during boiling. <i>Scientific Reports</i> , <b>2013</b> , 3, 1960	4.9	68
42	Enhanced Photocatalytic Hydrogen Production from WaterMethanol Solution by Nickel Intercalated into Titanate Nanotube. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8990-8996	3.8	66

41	Self-assembled foam-like graphene networks formed through nucleate boiling. <i>Scientific Reports</i> , <b>2013</b> , 3, 1396	4.9	65
40	Fabrication of graphene-based electrode in less than a minute through hybrid microwave annealing. <i>Scientific Reports</i> , <b>2014</b> , 4, 5492	4.9	56
39	Palladium oxide as a novel oxygen evolution catalyst on BiVO4 photoanode for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , <b>2014</b> , 317, 126-134	7.3	56
38	TiN nanoparticles on CNT-graphene hybrid support as noble-metal-free counter electrode for quantum-dot-sensitized solar cells. <i>ChemSusChem</i> , <b>2013</b> , 6, 261-7	8.3	49
37	Demonstration of a 50 cm2 BiVO4 tandem photoelectrochemical-photovoltaic water splitting device. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2366-2379	5.8	48
36	Photocatalytic overall water splitting with dual-bed system under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3243-3249	6.7	47
35	Formation of amorphous zinc citrate spheres and their conversion to crystalline ZnO nanostructures. <i>Langmuir</i> , <b>2011</b> , 27, 371-8	4	45
34	Large-Scale Fabrication of Sub-20-nm-Diameter ZnO Nanorod Arrays at Room Temperature and Their Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10452-10458	3.8	44
33	Single-Crystalline Thin Films for Studying Intrinsic Properties of BiFeO3BrTiO3 Solid Solution Photoelectrodes in Solar Energy Conversion. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6635-6641	9.6	40
32	Simultaneous Synthesis of Al-Doped ZnO Nanoneedles and Zinc Aluminum Hydroxides through Use of a Seed Layer. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 4553-4558	3.5	40
31	Solution-based fabrication of ZnO/ZnSe heterostructure nanowire arrays for solar energy conversion. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17816		36
30	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> , <b>2014</b> , 7, 2301	35.4	33
29	High-performance and stable photoelectrochemical water splitting cell with organic-photoactive-layer-based photoanode. <i>Nature Communications</i> , <b>2020</b> , 11, 5509	17.4	33
28	Superaerophobic hydrogels for enhanced electrochemical and photoelectrochemical hydrogen production. <i>Science Advances</i> , <b>2020</b> , 6, eaaz3944	14.3	31
27	Tailorable Au Nanoparticles Embedded in Epitaxial TiO Thin Films for Tunable Optical Properties. <i>ACS Applied Materials &amp; Design Sciences</i> , <b>2018</b> , 10, 32895-32902	9.5	29
26	Photocatalytic synthesis of pure and water-dispersible graphene monosheets. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2762-7	4.8	27
25	Self-assembled gold nanoparticle-mixed metal oxide nanocomposites for self-sensitized dye degradation under visible light irradiation. <i>Langmuir</i> , <b>2012</b> , 28, 17530-6	4	26
24	Room temperature synthesis and optical properties of small diameter (5 nm) ZnO nanorod arrays. <i>Nanoscale</i> , <b>2010</b> , 2, 2199-202	7.7	26

## (2012-2009)

23	N-Doped ZnS Nanoparticles Prepared through an Inorganic Drganic Hybrid Complex ZnS[[piperazine]0.5. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20445-20451	3.8	26
22	Unassisted solar lignin valorisation using a compartmented photo-electro-biochemical cell. <i>Nature Communications</i> , <b>2019</b> , 10, 5123	17.4	25
21	Aqueous-Solution Route to Zinc Telluride Films for Application to CO2 Reduction. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5962-5967	3.6	24
20	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3017-3023	9.6	23
19	Effects of postannealing process on the properties of RuO2 films and their performance as electrodes in organic thin film transistors or solar cells. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2012</b> , 4, 4588-94	9.5	21
18	High performance H2O2 production achieved by sulfur-doped carbon on CdS photocatalyst via inhibiting reverse H2O2 decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 284, 119690	21.8	18
17	Immobilizing single atom catalytic sites onto highly reduced carbon hosts: FeN4/CNT as a durable oxygen reduction catalyst for NaBir batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18891-18902	13	17
16	Nature of Nitrogen Incorporation in BiVO4 Photoanodes through Chemical and Physical Methods. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900290	7.1	14
15	Phosphomolybdic Acid as a Catalyst for Oxidative Valorization of Biomass and Its Application as an Alternative Electron Source. <i>ACS Catalysis</i> , <b>2020</b> , 10, 2060-2068	13.1	13
14	In-situ synthesis, local structure, photoelectrochemical property of Fe-intercalated titanate nanotube. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11081-11089	6.7	10
13	Strong O 2p-Fe 3d Hybridization Observed in Solution-Grown Hematite Films by Soft X-ray Spectroscopies. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 927-932	3.4	10
12	Photocatalytic selective oxidation of the terminal methyl group of dodecane with molecular oxygen over atomically dispersed Ti in a mesoporous SiO2 matrix. <i>Green Chemistry</i> , <b>2013</b> , 15, 3387	10	9
11	Unassisted photocatalytic H2O2 production under visible light by fluorinated polymer-TiO2 heterojunction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129346	14.7	9
10	Facile fabrication of two-dimensional inorganic nanostructures and their conjugation to nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4497	7.1	7
9	A method for synthesizing ZnOlarbonaceous species nanocomposites, and their conversion to quasi-single crystal mesoporous ZnO nanostructures. <i>RSC Advances</i> , <b>2012</b> , 2, 566-572	3.7	7
8	A Method for Modifying the Crystalline Nature and Texture of ZnO Nanostructure Surfaces. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 5615-5620	3.5	5
7	Photochemistry: A Stable and Efficient Hematite Photoanode in a Neutral Electrolyte for Solar Water Splitting: Towards Stability Engineering (Adv. Energy Mater. 13/2014). <i>Advanced Energy Materials</i> , <b>2014</b> , 4, n/a-n/a	21.8	3
6	Light-Induced Cleaning of CdS and ZnS Nanoparticles: Superiority to Annealing as a Postsynthetic Treatment of Functional Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15427-15431	3.8	3

5	Nature Catalysis, <b>2022</b> , 5, 37-44	36.5	3
4	Selective, Stable, Bias-Free, and Efficient Solar Hydrogen Peroxide Production on Inorganic Layered Materials. <i>Advanced Functional Materials</i> ,2110412	15.6	2
3	Alkali-Metal-Mediated Reversible Chemical Hydrogen Storage Using Seawater <i>Jacs Au</i> , <b>2021</b> , 1, 2339-2	2348	2
2	Unassisted selective solar hydrogen peroxide production by an oxidised buckypaper-integrated perovskite photocathode. <i>Nature Communications</i> , <b>2021</b> , 12, 6644	17.4	2
1	Spontaneous stepwise formation of polar-facet-dominant ZnO crystals for enhanced catalytic	6.7	1