

# Hong-Yan Chen

## List of Publications by Year in descending order

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68  
papers

7,668  
citations

50276

46  
h-index

98798

67  
g-index

68  
all docs

68  
docs citations

68  
times ranked

9210  
citing authors

#	ARTICLE	IF	CITATIONS
1	A CsPbBr <sub>3</sub> Perovskite Quantum Dot/Graphene Oxide Composite for Photocatalytic CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 5660-5663.	13.7	946
2	Novel porous molybdenum tungsten phosphide hybrid nanosheets on carbon cloth for efficient hydrogen evolution. <i>Energy and Environmental Science</i> , 2016, 9, 1468-1475.	30.8	437
3	Core@Shell CsPbBr <sub>3</sub> @Zeolitic Imidazolate Framework Nanocomposite for Efficient Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Energy Letters</i> , 2018, 3, 2656-2662.	17.4	425
4	Reduced Graphene Oxide-Hierarchical ZnO Hollow Sphere Composites with Enhanced Photocurrent and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8111-8117.	3.1	413
5	Oriented hierarchical single crystalline anatase TiO <sub>2</sub> nanowire arrays on Ti-foil substrate for efficient flexible dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 5750-5757.	30.8	353
6	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5277-5281.	13.8	310
7	In Situ Construction of a Cs <sub>2</sub> Sn <sub>6</sub> Perovskite Nanocrystal/SnS <sub>2</sub> Nanosheet Heterojunction with Boosted Interfacial Charge Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 13434-13441.	13.7	303
8	All-Solid-State Z-Scheme Fe <sub>2</sub> O <sub>3</sub> /Amine-RGO/CsPbBr <sub>3</sub> Hybrids for Visible-Light-Driven Photocatalytic CO <sub>2</sub> Reduction. <i>Chem</i> , 2020, 6, 766-780.	11.7	280
9	Intrinsic Self-Trapped Emission in OD Lead-Free (C <sub>4</sub> H <sub>14</sub> N <sub>2</sub> ) <sub>2</sub> In <sub>2</sub> Br <sub>10</sub> Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15435-15440.	13.8	244
10	Z-Scheme 2D/2D Heterojunction of CsPbBr <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> for Improved Photocatalytic CO <sub>2</sub> Reduction. <i>Advanced Functional Materials</i> , 2020, 30, 2004293.	14.9	234
11	Improving the Extraction of Photogenerated Electrons with SnO <sub>2</sub> Nanocolloids for Efficient Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 7200-7207.	14.9	194
12	Intrinsic Self-Trapped Emission in OD Lead-Free (C <sub>4</sub> H <sub>14</sub> N <sub>2</sub> ) <sub>2</sub> In <sub>2</sub> Br <sub>10</sub> Single Crystal. <i>Angewandte Chemie</i> , 2019, 131, 15581-15586.	2.0	190
13	Self-supported NiMoP <sub>2</sub> nanowires on carbon cloth as an efficient and durable electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7191-7199.	10.3	168
14	Achieving high-performance planar perovskite solar cell with Nb-doped TiO <sub>2</sub> compact layer by enhanced electron injection and efficient charge extraction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5647-5653.	10.3	163
15	Atomically Thin Defect-Rich Fe-Mn-O Hybrid Nanosheets as High Efficient Electrocatalyst for Water Oxidation. <i>Advanced Functional Materials</i> , 2018, 28, 1802463.	14.9	163
16	All-Inorganic Lead-Free Cs <sub>2</sub> PdX <sub>6</sub> (X = Br, I) Perovskite Nanocrystals with Single Unit Cell Thickness and High Stability. <i>ACS Energy Letters</i> , 2018, 3, 2613-2619.	17.4	143
17	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 15475.	6.7	141
18	Enhanced Solar-Driven Gaseous CO <sub>2</sub> Conversion by CsPbBr <sub>3</sub> Nanocrystal/Pd Nanosheet Schottky-Junction Photocatalyst. <i>ACS Applied Energy Materials</i> , 2018, 1, 5083-5089.	5.1	135

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19	Amorphous $\text{TiO}_2$ Encapsulated $\text{CsPbBr}_3$ Nanocrystal Composite Photocatalyst with Enhanced Charge Separation and $\text{CO}_2$ Fixation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801015.	3.7	125
20	Hierarchical $\text{CsPbBr}_3$ nanocrystal-decorated ZnO nanowire/macroporous graphene hybrids for enhancing charge separation and photocatalytic $\text{CO}_2$ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13762-13769.	10.3	115
21	Dye-sensitized solar cells based on a double layered $\text{TiO}_2$ photoanode consisting of hierarchical nanowire arrays and nanoparticles with greatly improved photovoltaic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 18057.	6.7	100
22	Toward High Performance Photoelectrochemical Water Oxidation: Combined Effects of Ultrafine Cobalt Iron Oxide Nanoparticle. <i>Advanced Functional Materials</i> , 2016, 26, 4414-4421.	14.9	97
23	In Situ Photosynthesis of an $\text{MAPbI}_3/\text{CoP}$ Hybrid Heterojunction for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 2001478.	14.9	92
24	Electrospun Hierarchical $\text{TiO}_2$ Nanorods with High Porosity for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9205-9211.	8.0	91
25	CdS/CdSe co-sensitized $\text{TiO}_2$ nanowire-coated hollow Spheres exceeding 6% photovoltaic performance. <i>Nano Energy</i> , 2015, 11, 621-630.	16.0	91
26	CdS/CdSe co-sensitized vertically aligned anatase $\text{TiO}_2$ nanowire arrays for efficient solar cells. <i>Nano Energy</i> , 2014, 8, 1-8.	16.0	81
27	Plasmonic $\text{CsPbBr}_3$ -Au nanocomposite for excitation wavelength dependent photocatalytic $\text{CO}_2$ reduction. <i>Journal of Energy Chemistry</i> , 2021, 53, 309-315.	12.9	70
28	High-performance dye-sensitized solar cells based on hierarchical yolk-shell anatase $\text{TiO}_2$ beads. <i>Journal of Materials Chemistry</i> , 2012, 22, 1627-1633.	6.7	67
29	$\text{CsPbBr}_3$ Nanocrystal/ $\text{MO}_2$ (M = Si, Ti, Sn) Composites: Insight into Charge-Carrier Dynamics and Photoelectrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42301-42309.	8.0	66
30	Achieving Highly Efficient Photoelectrochemical Water Oxidation with a $\text{TiCl}_4$ Treated 3D Antimony-Doped $\text{SnO}_2$ Macropore/Branched $\text{Fe}_2\text{O}_3$ Nanorod Heterojunction Photoanode. <i>Advanced Science</i> , 2015, 2, 1500049.	11.2	65
31	The top-down synthesis of single-layered $\text{Cs}_4\text{CuSb}_2\text{Cl}_{12}$ halide perovskite nanocrystals for photoelectrochemical application. <i>Nanoscale</i> , 2019, 11, 5180-5187.	5.6	65
32	Dextran based highly conductive hydrogel polysulfide electrolyte for efficient quasi-solid-state quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 92, 117-123.	5.2	64
33	Large-Area Synthesis of a $\text{Ni}_2\text{P}$ Honeycomb Electrode for Highly Efficient Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32812-32819.	8.0	62
34	Macroporous $\text{SnO}_2$ Synthesized via a Template-Assisted Reflux Process for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5105-5111.	8.0	61
35	Surface passivated halide perovskite single-crystal for efficient photoelectrochemical synthesis of dimethoxydihydrofuran. <i>Nature Communications</i> , 2021, 12, 1202.	12.8	58
36	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie</i> , 2019, 131, 5331-5335.	2.0	57

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37	Ordered macroporous CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite semitransparent film for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15662-15669.	10.3	54
38	A novel TCO- and Pt-free counter electrode for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1724-1730.	10.3	53
39	Self-assembled lead-free double perovskite-MXene heterostructure with efficient charge separation for photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121358.	20.2	53
40	Recent advances in hierarchical three-dimensional titanium dioxide nanotree arrays for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12699-12717.	10.3	52
41	In situ formation of zinc ferrite modified Al-doped ZnO nanowire arrays for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5124-5129.	10.3	51
42	Immobilizing Re(CO) <sub>3</sub> Br(dcbpy) Complex on CsPbBr <sub>3</sub> Nanocrystal for Boosted Charge Separation and Photocatalytic CO <sub>2</sub> Reduction. <i>Solar Rrl</i> , 2020, 4, 1900365.	5.8	51
43	CdS/CdSe Quantum Dot Shell Decorated Vertical ZnO Nanowire Arrays by Spin-Coating-Based SILAR for Photoelectrochemical Cells and Quantum-Dot-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2012, 13, 1435-1439.	2.1	50
44	Inorganic cesium lead halide CsPbX <sub>3</sub> nanowires for long-term stable solar cells. <i>Science China Materials</i> , 2017, 60, 285-294.	6.3	48
45	Solvent selection and Pt decoration towards enhanced photocatalytic CO <sub>2</sub> reduction over CsPbBr <sub>3</sub> perovskite single crystals. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2249-2255.	4.9	47
46	A family of vertically aligned nanowires with smooth, hierarchical and hyperbranched architectures for efficient energy conversion. <i>Nano Energy</i> , 2014, 9, 15-24.	16.0	46
47	A novel metal-organic gel based electrolyte for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15406.	10.3	45
48	Template-free solvothermal fabrication of hierarchical TiO <sub>2</sub> hollow microspheres for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13274.	10.3	44
49	Recent advances in hierarchical macroporous composite structures for photoelectric conversion. <i>Energy and Environmental Science</i> , 2014, 7, 3887-3901.	30.8	42
50	Electrospun TiO <sub>2</sub> nanofiber based hierarchical photoanode for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 189, 259-264.	5.2	39
51	Iron-assisted engineering of molybdenum phosphide nanowires on carbon cloth for efficient hydrogen evolution in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22790-22796.	10.3	34
52	Constructing CsPbBr <sub>x</sub> I <sub>3-x</sub> nanocrystal/carbon nanotube composites with improved charge transfer and light harvesting for enhanced photoelectrochemical activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5409-5415.	10.3	34
53	Porous ZnO@ZnSe nanosheet array for photoelectrochemical reduction of CO <sub>2</sub> . <i>Electrochimica Acta</i> , 2018, 274, 298-305.	5.2	32
54	Fabrication of a double layered photoanode consisting of SnO <sub>2</sub> nanofibers and nanoparticles for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 13804.	3.6	28

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55	Highly Catalytic Carbon Nanotube/Pt Nanohybrid-Based Transparent Counter Electrode for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1795-1802.	3.3	27
56	Hierarchical ZnO nanorod-on-nanosheet arrays electrodes for efficient CdSe quantum dot-sensitized solar cells. <i>Science China Materials</i> , 2016, 59, 807-816.	6.3	21
57	A laminar MAPbBr <sub>3</sub> /MAPbBr <sub>3</sub> -x graded heterojunction single crystal for enhancing charge extraction and optoelectronic performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5670-5676.	5.5	20
58	Construction of a ternary WO <sub>3</sub> /CsPbBr <sub>3</sub> /ZIF-67 heterostructure for enhanced photocatalytic carbon dioxide reduction. <i>Science China Materials</i> , 2022, 65, 1550-1559.	6.3	19
59	Constructing a Cs <sub>3</sub> Sb <sub>2</sub> Br <sub>9</sub> /g-C <sub>3</sub> N <sub>4</sub> Hybrid for Photocatalytic Aromatic C-H Bond Activation. <i>Solar Rrl</i> , 2021, 5, 2100559.	5.8	18
60	3D Cathodes of Cupric Oxide Nanosheets Coated onto Macroporous Antimony-Doped Tin Oxide for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2016, 9, 3012-3018.	6.8	17
61	CdS/CdSe co-sensitized hierarchical TiO <sub>2</sub> nanofiber/ZnO nanosheet heterojunction photoanode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 78202-78209.	3.6	16
62	Solution-Processed Anatase Titania Nanowires: From Hyperbranched Design to Optoelectronic Applications. <i>Accounts of Chemical Research</i> , 2019, 52, 633-644.	15.6	16
63	Ni <sub>x</sub> S <sub>y</sub> /NiSe <sub>2</sub> Hybrid Catalyst Grown In Situ on Conductive Glass Substrate as Efficient Counter Electrode for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2017, 250, 244-250.	5.2	11
64	In Situ Construction of Direct Z-scheme Cs <sub>x</sub> WO <sub>3</sub> /CsPbBr <sub>3</sub> Heterojunctions via Cosharing Cs Atom. <i>Solar Rrl</i> , 2021, 5, 2100036.	5.8	11
65	Engineering multinary heterointerfaces in two-dimensional cobalt molybdenum phosphide hybrid nanosheets for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3458-3466.	4.9	9
66	Hierarchical TiO <sub>2</sub> -B/anatase core/shell nanowire arrays for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 1288-1295.	3.6	6
67	Oxidative cleavage of C=C bond of cinnamaldehyde to benzaldehyde in the presence of $\beta$ -cyclodextrin under mild conditions. <i>Supramolecular Chemistry</i> , 2012, 24, 247-254.	1.2	5
68	Water Splitting: Achieving Highly Efficient Photoelectrochemical Water Oxidation with a TiCl <sub>4</sub> Treated 3D Antimony-Doped SnO <sub>2</sub> Macropore/Branched Fe <sub>2</sub> O <sub>3</sub> Nanorod Heterojunction Photoanode ( <i>Adv. Sci.</i> 7/2015). <i>Advanced Science</i> , 2015, 2, .	11.2	0