

# Jingrun Ran

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

16,128  
citations

109321

35  
h-index

206112

48  
g-index

49  
all docs

49  
docs citations

49  
times ranked

16522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical considerations on activity of the electrochemical CO <sub>2</sub> reduction on metal single-atom catalysts with asymmetrical active sites. <i>Catalysis Today</i> , 2022, 397-399, 574-580.	4.4	9
2	Advancing Photoelectrochemical Energy Conversion through Atomic Design of Catalysts. <i>Advanced Science</i> , 2022, 9, e2104363.	11.2	21
3	Photocatalytic CO <sub>2</sub> Reduction: Identification and Elimination of False-Positive Results. <i>ACS Energy Letters</i> , 2022, 7, 1611-1617.	17.4	34
4	CO <sub>2</sub> reduction by single copper atom supported on g-C <sub>3</sub> N <sub>4</sub> with asymmetrical active sites. <i>Applied Surface Science</i> , 2021, 540, 148293.	6.1	33
5	ReS <sub>2</sub> Nanosheets with In Situ Formed Sulfur Vacancies for Efficient and Highly Selective Photocatalytic CO <sub>2</sub> Reduction. <i>Small Science</i> , 2021, 1, 2000052.	9.9	66
6	Significantly Raised Visible-Light Photocatalytic H <sub>2</sub> Evolution on a 2D/2D ReS <sub>2</sub> /In <sub>2</sub> ZnS <sub>4</sub> van der Waals Heterostructure. <i>Small</i> , 2021, 17, e2100296.	10.0	38
7	Significantly Raised Visible-Light Photocatalytic H <sub>2</sub> Evolution on a 2D/2D ReS <sub>2</sub> /In <sub>2</sub> ZnS <sub>4</sub> van der Waals Heterostructure (Small 32/2021). <i>Small</i> , 2021, 17, 2170168.	10.0	1
8	Two-dimensional building blocks for photocatalytic ammonia production. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18733-18745.	10.3	14
9	Single-Atom Photocatalysts for Emerging Reactions. <i>ACS Central Science</i> , 2021, 7, 39-54.	11.3	94
10	Atomic-Level Insights into the Edge Active ReS <sub>2</sub> Ultrathin Nanosheets for High-Efficiency Light-to-Hydrogen Conversion. , 2020, 2, 1484-1494.		65
11	Photocatalysts for Hydrogen Evolution Coupled with Production of Value-Added Chemicals. <i>Small Methods</i> , 2020, 4, 2000063.	8.6	124
12	Atomic-Level Reactive Sites for Semiconductor-Based Photocatalytic CO <sub>2</sub> Reduction. <i>Advanced Energy Materials</i> , 2020, 10, 1903879.	19.5	291
13	Characterization of semiconductor photocatalysts. <i>Chemical Society Reviews</i> , 2019, 48, 5184-5206.	38.1	260
14	Atomically Dispersed Single Co Sites in Zeolitic Imidazole Frameworks Promoting High-Efficiency Visible-Light-Driven Hydrogen Production. <i>Chemistry - A European Journal</i> , 2019, 25, 9670-9677.	3.3	10
15	A two-dimensional metal-organic framework accelerating visible-light-driven H <sub>2</sub> production. <i>Nanoscale</i> , 2019, 11, 8304-8309.	5.6	26
16	2D Metal Organic Framework Nanosheet: A Universal Platform Promoting Highly Efficient Visible-Light-Induced Hydrogen Production. <i>Advanced Energy Materials</i> , 2019, 9, 1803402.	19.5	200
17	Cocatalysts in Semiconductor-Based Photocatalytic CO <sub>2</sub> Reduction: Achievements, Challenges, and Opportunities. <i>Advanced Materials</i> , 2018, 30, 1704649.	21.0	1,034
18	Metal-Free 2D/2D Phosphorene/g-C <sub>3</sub> N <sub>4</sub> Van der Waals Heterojunction for Highly Enhanced Visible-Light Photocatalytic H <sub>2</sub> Production. <i>Advanced Materials</i> , 2018, 30, e1800128.	21.0	707

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19	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH <sub>3</sub> ) under ambient conditions. <i>Energy and Environmental Science</i> , 2018, 11, 45-56.	30.8	1,217
20	Metallic MoN ultrathin nanosheets boosting high performance photocatalytic H <sub>2</sub> production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23278-23282.	10.3	37
21	Nanoconfined Nickel@Carbon Core-Shell Cocatalyst Promoting Highly Efficient Visible-Light Photocatalytic H <sub>2</sub> Production. <i>Small</i> , 2018, 14, e1801705.	10.0	56
22	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8539-8543.	13.8	314
23	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 8659-8663.	2.0	36
24	Ti <sub>3</sub> C <sub>2</sub> MXene co-catalyst on metal sulfide photo-absorbers for enhanced visible-light photocatalytic hydrogen production. <i>Nature Communications</i> , 2017, 8, 13907.	12.8	1,496
25	Molecules interface engineering derived external electric field for effective charge separation in photoelectrocatalysis. <i>Nano Energy</i> , 2017, 42, 90-97.	16.0	33
26	Phosphorene Co-catalyst Advancing Highly Efficient Visible-Light Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , 2017, 129, 10509-10513.	2.0	36
27	Phosphorene Co-catalyst Advancing Highly Efficient Visible-Light Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10373-10377.	13.8	307
28	Strongly interactive 0D/2D hetero-structure of a Zn <sub>x</sub> Cd <sub>1-x</sub> S nano-particle decorated phosphorene nano-sheet for enhanced visible-light photocatalytic H <sub>2</sub> production. <i>Chemical Communications</i> , 2017, 53, 9882-9885.	4.1	68
29	Scalable Self-Supported Graphene Foam for High-Performance Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41980-41987.	8.0	22
30	Surface activated carbon nitride nanosheets with optimized electro-optical properties for highly efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2445-2452.	10.3	121
31	Enhanced Photoelectrocatalytic Activity of BiOI Nanoplate-Zinc Oxide Nanorod Heterojunction. <i>Chemistry - A European Journal</i> , 2015, 21, 15360-15368.	3.3	139
32	Paper-Based N-Doped Carbon Films for Enhanced Oxygen Evolution Electrocatalysis. <i>Advanced Science</i> , 2015, 2, 1400015.	11.2	67
33	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. <i>Nanoscale</i> , 2015, 7, 17590-17610.	5.6	312
34	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H <sub>2</sub> production. <i>Energy and Environmental Science</i> , 2015, 8, 3708-3717.	30.8	1,146
35	Phosphorus-Doped Graphitic Carbon Nitrides Grown In-Situ on Carbon-Fiber Paper: Flexible and Reversible Oxygen Electrodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4646-4650.	13.8	722
36	Ionic liquid self-combustion synthesis of BiOBr/Bi <sub>24</sub> O <sub>31</sub> Br <sub>10</sub> heterojunctions with exceptional visible-light photocatalytic performances. <i>Nanoscale</i> , 2015, 7, 1116-1126.	5.6	173

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37	Enhanced Visible-Light Photocatalytic H <sub>2</sub> Production by Zn <sub>x</sub> Cd <sub>1-x</sub> S Modified with Earth-Abundant Nickel-Based Cocatalysts. <i>ChemSusChem</i> , 2014, 7, 3426-3434.	6.8	164
38	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. <i>Chemical Society Reviews</i> , 2014, 43, 7787-7812.	38.1	2,125
39	Ternary NiS/Zn <sub>x</sub> Cd <sub>1-x</sub> S/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H <sub>2</sub> Production Activity. <i>Advanced Energy Materials</i> , 2014, 4, 1301925.	19.5	244
40	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. <i>Energy and Environmental Science</i> , 2013, 6, 3693.	30.8	309
41	One-Pot Template-Free Hydrothermal Synthesis of Monoclinic Hollow Microspheres and Their Enhanced Visible-Light Photocatalytic Activity. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-10.	2.5	17
42	Effects of Calcination Temperatures on Photocatalytic Activity of Ordered Titanate Nanoribbon/SnO <sub>2</sub> Films Fabricated during an EPD Process. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-7.	2.5	24
43	Ni(OH) <sub>2</sub> modified CdS nanorods for highly efficient visible-light-driven photocatalytic H <sub>2</sub> generation. <i>Green Chemistry</i> , 2011, 13, 2708.	9.0	363
44	Facile preparation and enhanced photocatalytic H <sub>2</sub> -production activity of Cu(OH) <sub>2</sub> cluster modified TiO <sub>2</sub> . <i>Energy and Environmental Science</i> , 2011, 4, 1364.	30.8	554
45	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production of CdS-Cluster-Decorated Graphene Nanosheets. <i>Journal of the American Chemical Society</i> , 2011, 133, 10878-10884.	13.7	2,260
46	Novel urea assisted hydrothermal synthesis of hierarchical BiVO <sub>4</sub> /Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanocomposites with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 286-295.	20.2	392
47	One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO <sub>2</sub> hollow microspheres and tabular anatase single micro-crystals with high-energy facets. <i>CrystEngComm</i> , 2010, 12, 872-879.	2.6	241