

Jingrun Ran

List of Publications by Year in descending order

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47
papers

16,128
citations

109321

35
h-index

206112

48
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49
all docs

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docs citations

49
times ranked

16522
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. <i>Chemical Society Reviews</i> , 2014, 43, 7787-7812.	38.1	2,125
3	Ti ₃ C ₂ 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
4	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH ₃) under ambient conditions. <i>Energy and Environmental Science</i> , 2018, 11, 45-56.	30.8	1,217
5	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H ₂ production. <i>Energy and Environmental Science</i> , 2015, 8, 3708-3717.	30.8	1,146
6	Cocatalysts in Semiconductor-Based Photocatalytic CO ₂ Reduction: Achievements, Challenges, and Opportunities. <i>Advanced Materials</i> , 2018, 30, 1704649.	21.0	1,034
7	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
8	Metal-Free 2D/2D Phosphorene/g-C ₃ N ₄ Van der Waals Heterojunction for Highly Enhanced Visible-Light Photocatalytic H ₂ Production. <i>Advanced Materials</i> , 2018, 30, e1800128.	21.0	707
9	Facile preparation and enhanced photocatalytic H ₂ -production activity of Cu(OH) ₂ cluster modified TiO ₂ . <i>Energy and Environmental Science</i> , 2011, 4, 1364.	30.8	554
10	Novel urea assisted hydrothermal synthesis of hierarchical BiVO ₄ /Bi ₂ O ₂ CO ₃ nanocomposites with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 286-295.	20.2	392
11	Ni(OH) ₂ modified CdS nanorods for highly efficient visible-light-driven photocatalytic H ₂ generation. <i>Green Chemistry</i> , 2011, 13, 2708.	9.0	363
12	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8539-8543.	13.8	314
13	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. <i>Nanoscale</i> , 2015, 7, 17590-17610.	5.6	312
14	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
15	Phosphorene Co-catalyst Advancing Highly Efficient Visible-Light Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10373-10377.	13.8	307
16	Atomic-Level Reactive Sites for Semiconductor-Based Photocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2020, 10, 1903879.	19.5	291
17	Characterization of semiconductor photocatalysts. <i>Chemical Society Reviews</i> , 2019, 48, 5184-5206.	38.1	260
18	Ternary NiS/ZnS/CdS/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H ₂ Production Activity. <i>Advanced Energy Materials</i> , 2014, 4, 1301925.	19.5	244

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19	One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO ₂ hollow microspheres and tabular anatase single micro-crystals with high-energy facets. <i>CrystEngComm</i> , 2010, 12, 872-879.	2.6	241
20	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
21	Ionic liquid self-combustion synthesis of BiOBr/Bi ₂₄ O ₃₁ Br ₁₀ heterojunctions with exceptional visible-light photocatalytic performances. <i>Nanoscale</i> , 2015, 7, 1116-1126.	5.6	173
22	Enhanced Visible-Light Photocatalytic H ₂ Production by Zn _x Cd _{1-x} S Modified with Earth-Abundant Nickel-Based Cocatalysts. <i>ChemSusChem</i> , 2014, 7, 3426-3434.	6.8	164
23	Enhanced Photoelectrocatalytic Activity of BiOI Nanoplate-Zinc Oxide Nanorod Heterojunction. <i>Chemistry - A European Journal</i> , 2015, 21, 15360-15368.	3.3	139
24	Photocatalysts for Hydrogen Evolution Coupled with Production of Value-Added Chemicals. <i>Small Methods</i> , 2020, 4, 2000063.	8.6	124
25	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
26	Single-Atom Photocatalysts for Emerging Reactions. <i>ACS Central Science</i> , 2021, 7, 39-54.	11.3	94
27	Strongly interactive 0D/2D hetero-structure of a Zn _x Cd _{1-x} S nano-particle decorated phosphorene nano-sheet for enhanced visible-light photocatalytic H ₂ production. <i>Chemical Communications</i> , 2017, 53, 9882-9885.	4.1	68
28	Paper-Based N-Doped Carbon Films for Enhanced Oxygen Evolution Electrocatalysis. <i>Advanced Science</i> , 2015, 2, 1400015.	11.2	67
29	ReS ₂ Nanosheets with In Situ Formed Sulfur Vacancies for Efficient and Highly Selective Photocatalytic CO ₂ Reduction. <i>Small Science</i> , 2021, 1, 2000052.	9.9	66
30	Atomic-Level Insights into the Edge Active ReS ₂ Ultrathin Nanosheets for High-Efficiency Light-to-Hydrogen Conversion. , 2020, 2, 1484-1494.		65
31	Nanoconfined Nickel@Carbon Core-Shell Cocatalyst Promoting Highly Efficient Visible-Light Photocatalytic H ₂ Production. <i>Small</i> , 2018, 14, e1801705.	10.0	56
32	Significantly Raised Visible-Light Photocatalytic H ₂ Evolution on a 2D/2D ReS ₂ /In ₂ ZnS ₄ van der Waals Heterostructure. <i>Small</i> , 2021, 17, e2100296.	10.0	38
33	Metallic MoN ultrathin nanosheets boosting high performance photocatalytic H ₂ production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23278-23282.	10.3	37
34	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 8659-8663.	2.0	36
35	Phosphorene Co-catalyst Advancing Highly Efficient Visible-Light Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , 2017, 129, 10509-10513.	2.0	36
36	Photocatalytic CO ₂ Reduction: Identification and Elimination of False-Positive Results. <i>ACS Energy Letters</i> , 2022, 7, 1611-1617.	17.4	34

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37	Molecules interface engineering derived external electric field for effective charge separation in photoelectrocatalysis. <i>Nano Energy</i> , 2017, 42, 90-97.	16.0	33
38	CO ₂ reduction by single copper atom supported on g-C ₃ N ₄ with asymmetrical active sites. <i>Applied Surface Science</i> , 2021, 540, 148293.	6.1	33
39	A two-dimensional metal-organic framework accelerating visible-light-driven H ₂ production. <i>Nanoscale</i> , 2019, 11, 8304-8309.	5.6	26
40	Effects of Calcination Temperatures on Photocatalytic Activity of Ordered Titanate Nanoribbon/SnO ₂ Films Fabricated during an EPD Process. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-7.	2.5	24
41	Scalable Self-Supported Graphene Foam for High-Performance Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41980-41987.	8.0	22
42	Advancing Photoelectrochemical Energy Conversion through Atomic Design of Catalysts. <i>Advanced Science</i> , 2022, 9, e2104363.	11.2	21
43	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
44	Two-dimensional building blocks for photocatalytic ammonia production. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18733-18745.	10.3	14
45	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
46	Theoretical considerations on activity of the electrochemical CO ₂ reduction on metal single-atom catalysts with asymmetrical active sites. <i>Catalysis Today</i> , 2022, 397-399, 574-580.	4.4	9
47	Significantly Raised Visible-Light Photocatalytic H ₂ Evolution on a 2D/2D ReS ₂ /In ₂ ZnS ₄ van der Waals Heterostructure (<i>Small</i> 32/2021). <i>Small</i> , 2021, 17, 2170168.	10.0	1