

Chuang Han

List of Publications by Year in descending order

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34
papers

4,604
citations

218677

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h-index

395702

33
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35
all docs

35
docs citations

35
times ranked

6029
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
2	Photocorrosion Inhibition of Semiconductor-Based Photocatalysts: Basic Principle, Current Development, and Future Perspective. <i>ACS Catalysis</i> , 2019, 9, 4642-4687.	11.2	432
3	Hierarchically CdS Decorated 1D ZnO Nanorods@2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 221-229.	14.9	394
4	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16891.	2.8	374
5	Near-field dielectric scattering promotes optical absorption by platinum nanoparticles. <i>Nature Photonics</i> , 2016, 10, 473-482.	31.4	298
6	Photocatalytic water splitting for solar hydrogen generation: fundamentals and recent advancements. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 1-36.	2.3	288
7	Structural diversity of graphene materials and their multifarious roles in heterogeneous photocatalysis. <i>Nano Today</i> , 2016, 11, 351-372.	11.9	283
8	Insight into the Effect of Highly Dispersed MoS ₂ versus Layer-Structured MoS ₂ on the Photocorrosion and Photoactivity of CdS in Graphene@CdS@MoS ₂ Composites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27234-27246.	3.1	254
9	One dimensional CdS based materials for artificial photoredox reactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2387-2410.	10.3	190
10	Function-Oriented Engineering of Metal-Based Nanohybrids for Photoredox Catalysis: Exerting Plasmonic Effect and Beyond. <i>CheM</i> , 2018, 4, 1832-1861.	11.7	147
11	Enhancing the visible light photocatalytic performance of ternary CdS@ (graphene@Pd) nanocomposites via a facile interfacial mediator and co-catalyst strategy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19156-19166.	10.3	130
12	Cooperative Syngas Production and C-N Bond Formation in One Photoredox Cycle. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7962-7970.	13.8	118
13	Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications. <i>Nano Today</i> , 2019, 27, 48-72.	11.9	104
14	Heterostructured semiconductor nanowire arrays for artificial photosynthesis. <i>Materials Horizons</i> , 2016, 3, 270-282.	12.2	95
15	Efficient photoredox conversion of alcohol to aldehyde and H ₂ by heterointerface engineering of bimetal@semiconductor hybrids. <i>Chemical Science</i> , 2019, 10, 3514-3522.	7.4	90
16	Progressive Design of Plasmonic Metal@Semiconductor Ensemble toward Regulated Charge Flow and Improved Visible-NIR-Driven Solar-to-Chemical Conversion. <i>Small</i> , 2017, 13, 1602947.	10.0	88
17	Tunable plasmonic core@shell heterostructure design for broadband light driven catalysis. <i>Chemical Science</i> , 2018, 9, 8914-8922.	7.4	80
18	Recent Progress in Engineering Metal Halide Perovskites for Efficient Visible-Light-Driven Photocatalysis. <i>ChemSusChem</i> , 2020, 13, 4005-4025.	6.8	79

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19	Origin of Enhancing the Photocatalytic Performance of TiO ₂ for Artificial Photoreduction of CO ₂ through a SiO ₂ Coating Strategy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 265-273.	3.1	76
20	Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. <i>Nanoscale</i> , 2015, 7, 18062-18070.	5.6	67
21	Surface/Interface Engineering of Carbon-Based Materials for Constructing Multidimensional Functional Hybrids. <i>Solar Rrl</i> , 2020, 4, 1900577.	5.8	52
22	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. <i>Journal of the American Chemical Society</i> , 2021, 143, 11361-11369.	13.7	47
23	Metal-Semiconductor Heterostructures for Photoredox Catalysis: Where Are We Now and Where Do We Go?. <i>Advanced Functional Materials</i> , 2021, 31, 2101103.	14.9	41
24	Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. <i>Chemistry - A European Journal</i> , 2020, 26, 13118-13136.	3.3	39
25	Insight into the Origin of Boosted Photosensitive Efficiency of Graphene from the Cooperative Experiment and Theory Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27091-27103.	3.1	37
26	Two-photon-absorbing ruthenium complexes enable near infrared light-driven photocatalysis. <i>Nature Communications</i> , 2022, 13, 2288.	12.8	32
27	Cooperative Syngas Production and C-N Bond Formation in One Photoredox Cycle. <i>Angewandte Chemie</i> , 2021, 133, 8041-8049.	2.0	18
28	Defective Ultrathin ZnIn ₂ S ₄ for Photoreductive Deuteration of Carbonyls Using D ₂ O as the Deuterium Source. <i>Advanced Science</i> , 2022, 9, e2103408.	11.2	15
29	One-dimensional Nanostructures for Photocatalytic Organic Synthesis. <i>Current Organic Chemistry</i> , 2015, 19, 484-497.	1.6	11
30	Hierarchical Hybrids: Hierarchically CdS Decorated 1D ZnO Nanorods-2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance (<i>Adv. Funct. Mater.</i> 2/2015). <i>Advanced Functional Materials</i> , 2015, 25, 170-170.	14.9	8
31	The surface chemistry of graphene-based materials: functionalization, properties, and applications. <i>Interface Science and Technology</i> , 2020, 31, 453-474.	3.3	7
32	State-of-the-art progress in tracking plasmon-mediated photoredox catalysis. <i>Pure and Applied Chemistry</i> , 2021, 93, 509-524.	1.9	2
33	Semiconductors: Progressive Design of Plasmonic Metal-Semiconductor Ensemble toward Regulated Charge Flow and Improved Visible-NIR-Driven Solar-to-Chemical Conversion (<i>Small</i> 14/2017). <i>Small</i> , 2017, 13, 10.0	10.0	0
34	Frontispiece: Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0