

Zhuxing Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9393329/publications.pdf>

Version: 2024-02-01

36
papers

2,884
citations

218381

26
h-index

329751

37
g-index

37
all docs

37
docs citations

37
times ranked

3361
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Graphene Materials: From Understanding to Design and Synthesis Control. <i>Chemical Reviews</i> , 2020, 120, 10336-10453.	23.0	319
2	g-C ₃ N ₄ based composite photocatalysts for photocatalytic CO ₂ reduction. <i>Catalysis Today</i> , 2018, 300, 160-172.	2.2	263
3	Synthesis, stabilization and applications of 2-dimensional 1T metallic MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 23932-23977.	5.2	250
4	Decorating g-C ₃ N ₄ with alkalized Ti ₃ C ₂ MXene for promoted photocatalytic CO ₂ reduction performance. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 406-417.	5.0	208
5	Recent progress in visible light photocatalytic conversion of carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2019, 7, 865-887.	5.2	193
6	Enhanced CO ₂ photocatalytic reduction on alkali-decorated graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 146-155.	10.8	127
7	Steam reforming of methane: Current states of catalyst design and process upgrading. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111330.	8.2	120
8	Enhanced CH ₄ selectivity in CO ₂ photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C ₃ N ₄ . <i>Nano Research</i> , 2019, 12, 2749-2759.	5.8	115
9	g-C ₃ N ₄ -based photoelectrodes for photoelectrochemical water splitting: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21474-21502.	5.2	111
10	Insights into the Thermo-Photo Catalytic Production of Hydrogen from Water on a Low-Cost NiO-Loaded TiO ₂ Catalyst. <i>ACS Catalysis</i> , 2019, 9, 5047-5056.	5.5	94
11	Catalysts for CO ₂ reforming of CH ₄ : a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12495-12520.	5.2	93
12	Bimodal mesoporous TiO ₂ supported Pt, Pd and Ru catalysts and their catalytic performance and deactivation mechanism for catalytic combustion of Dichloromethane (CH ₂ Cl ₂). <i>Applied Catalysis A: General</i> , 2018, 550, 20-27.	2.2	78
13	Visible-light CO ₂ photocatalytic reduction performance of ball-flower-like Bi ₂ WO ₆ synthesized without organic precursor: Effect of post-calcination and water vapor. <i>Applied Surface Science</i> , 2014, 315, 360-367.	3.1	77
14	Insight into the enhanced CO ₂ photocatalytic reduction performance over hollow-structured Bi-decorated g-C ₃ N ₄ nanohybrid under visible-light irradiation. <i>Journal of CO₂ Utilization</i> , 2018, 28, 126-136.	3.3	75
15	Photocatalytic hydrogen production over Rh-loaded TiO ₂ : What is the origin of hydrogen and how to achieve hydrogen production from water?. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119316.	10.8	73
16	Enriching CO ₂ Activation Sites on Graphitic Carbon Nitride with Simultaneous Introduction of Electron Transfer Promoters for Superior Photocatalytic CO ₂ Fuel Conversion. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700003.	2.7	65
17	1T Phase Transition Metal Dichalcogenides for Hydrogen Evolution Reaction. <i>Electrochemical Energy Reviews</i> , 2021, 4, 194-218.	13.1	65
18	New understanding of crystal control and facet selectivity of titanium dioxide ruling photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8156-8166.	5.2	63

#	ARTICLE	IF	CITATIONS
19	Surprisingly advanced CO ₂ photocatalytic conversion over thiourea derived g-C ₃ N ₄ with water vapor while introducing 200–420 nm UV light. <i>Journal of CO₂ Utilization</i> , 2016, 14, 143-151.	3.3	54
20	Improved CO ₂ photocatalytic reduction using a novel 3-component heterojunction. <i>Nano Energy</i> , 2019, 62, 426-433.	8.2	52
21	Photo-assisted methanol steam reforming on solid solution of Cu-Zn-Ti oxide. <i>Chemical Engineering Journal</i> , 2019, 375, 121909.	6.6	50
22	The special route toward conversion of methane to methanol on a fluffy metal-free carbon nitride photocatalyst in the presence of H ₂ O. <i>International Journal of Energy Research</i> , 2020, 44, 2740-2753.	2.2	44
23	Novel Binder-Free Three-Dimensional MoS ₂ -Based Electrode for Efficient and Stable Electrocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 1102-1110.	2.5	42
24	A direct Z-scheme Bi ₂ WO ₆ /NH ₂ -UiO-66 nanocomposite as an efficient visible-light-driven photocatalyst for NO removal. <i>RSC Advances</i> , 2020, 10, 1757-1768.	1.7	34
25	Ultrafast, Low-Cost, and Mass Production of High-Quality Graphene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9232-9234.	7.2	33
26	One-step synthesis of Cl ⁻ -doped Pt(IV)/Bi ₂ WO ₆ with advanced visible-light photocatalytic activity for toluene degradation in air. <i>Journal of Colloid and Interface Science</i> , 2013, 412, 31-38.	5.0	30
27	3D Graphene Materials from the Reduction of CO ₂ . <i>Accounts of Materials Research</i> , 2021, 2, 48-58.	5.9	27
28	Enhanced CO ₂ photocatalytic reduction performance on alkali and alkaline earth metal ion-exchanged hydrogen titanate nanotubes. <i>Applied Surface Science</i> , 2019, 463, 456-462.	3.1	26
29	Thermo-photo coupled catalytic CO ₂ reforming of methane: A review. <i>Chemical Engineering Journal</i> , 2022, 428, 131222.	6.6	24
30	Photocatalytic conversion of carbon monoxide: from pollutant removal to fuel production. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120312.	10.8	22
31	How Magical Is Magic-Angle Graphene?. <i>Matter</i> , 2020, 2, 1106-1114.	5.0	21
32	Novel WS ₂ -Based 3D Electrode with Protecting Scaffold for Efficient and Stable Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12142-12148.	1.5	15
33	Direct conversion of methane to oxygenates catalyzed by iron(III) chloride in water at near ambient temperature. <i>International Journal of Energy Research</i> , 2021, 45, 2581-2592.	2.2	7
34	1T/1T'-dominated WSe ₂ with stabilized oxygen dopants for efficient and durable hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13490-13495.	5.2	7
35	Photocatalytic conversion of ethane: status and perspective. <i>International Journal of Energy Research</i> , 2020, 44, 708-717.	2.2	4
36	Ultraschnelle und kostengünstige Produktion von hochwertigem Graphen. <i>Angewandte Chemie</i> , 2020, 132, 9316-9318.	1.6	1