

Hengming Huang

List of Publications by Year in descending order

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27
papers

1,487
citations

471509

17
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552781

26
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28
all docs

28
docs citations

28
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar-Driven Hydrogen Production: Recent Advances, Challenges, and Future Perspectives. ACS Energy Letters, 2022, 7, 1043-1065.	17.4	247
2	Oriented Built-in Electric Field Introduced by Surface Gradient Diffusion Doping for Enhanced Photocatalytic H ₂ Evolution in CdS Nanorods. Nano Letters, 2017, 17, 3803-3808.	9.1	225
3	Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO ₂ for Improved Photocatalytic H ₂ Evolution. Angewandte Chemie - International Edition, 2020, 59, 7230-7234.	13.8	221
4	Construction of Infrared-Light-Responsive Photoinduced Carriers Driver for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2020, 32, e1906361.	21.0	131
5	MXene derived TiS ₂ nanosheets for high-rate and long-life sodium-ion capacitors. Energy Storage Materials, 2020, 26, 550-559.	18.0	108
6	Atomic-level insights into surface engineering of semiconductors for photocatalytic CO ₂ reduction. Journal of Energy Chemistry, 2022, 67, 309-341.	12.9	67
7	Construction of Self-Healing Internal Electric Field for Sustainably Enhanced Photocatalysis. Advanced Functional Materials, 2019, 29, 1807934.	14.9	64
8	Design of twin junction with solid solution interface for efficient photocatalytic H ₂ production. Nano Energy, 2020, 69, 104410.	16.0	62
9	Molten-Salt-Mediated Synthesis of an Atomic Nickel Co-catalyst on TiO ₂ for Improved Photocatalytic H ₂ Evolution. Angewandte Chemie, 2020, 132, 7297-7301.	2.0	55
10	Flowing water enabled piezoelectric potential of flexible composite film for enhanced photocatalytic performance. Chemical Engineering Journal, 2018, 347, 263-272.	12.7	49
11	Greatly enhanced photocatalytic activity by organic flexible piezoelectric PVDF induced spatial electric field. Catalysis Science and Technology, 2017, 7, 5594-5601.	4.1	42
12	Sustainable Internal Electric Field for Enhanced Photocatalysis: From Material Design to Energy Utilization. Journal of Physical Chemistry Letters, 2020, 11, 7407-7416.	4.6	31
13	Hollow structured cathode materials for rechargeable batteries. Science Bulletin, 2020, 65, 496-512.	9.0	30
14	Photocatalysis of composite film PDMS-PMN-PT@TiO ₂ greatly improved via spatial electric field. Applied Surface Science, 2017, 403, 9-14.	6.1	24
15	Uniform NaYF ₄ :Yb, Tm hexagonal submicroplates: Controlled synthesis and enhanced UV and blue upconversion luminescence. Materials Research Bulletin, 2013, 48, 300-304.	5.2	22
16	Effective solar driven H ₂ production by Mn _{0.5} Cd _{0.5} Se/g-C ₃ N ₄ S-scheme heterojunction photocatalysts. International Journal of Hydrogen Energy, 2021, 46, 32514-32522.	7.1	22
17	Metal-free ĩ-conjugated hybrid g-C ₃ N ₄ with tunable band structure for enhanced visible-light photocatalytic H ₂ production. Journal of Materials Science and Technology, 2021, 87, 207-215.	10.7	18
18	Coordination Chemistry Engineered Polymeric Carbon Nitride Photoanode with Ultralow Onset Potential for Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16

#	ARTICLE	IF	CITATIONS
19	Bridging localized electron states of pyrite-type CoS ₂ cocatalyst for activated solar H ₂ evolution. Nano Research, 0, , 1.	10.4	12
20	The Potential of Carbon-based Materials for Photocatalytic Application. Current Organic Chemistry, 2014, 18, 1346-1364.	1.6	12
21	Interfacial Design to Enhance Photocatalytic Hydrogen Evolution via Optimizing Energy and Mass Flows. ACS Applied Materials & Interfaces, 2021, 13, 21207-21216.	8.0	9
22	Reddish GaN:ZnO photoelectrode for improved photoelectrochemical solar water splitting. Journal of Chemical Physics, 2020, 153, 024706.	3.0	5
23	Carbon ring and molecular scaffold co-doped g-C ₃ N ₄ heterostructural nanosheets for highly efficient hydrogen evolution. Materials Research Bulletin, 2021, 144, 111482.	5.2	5
24	Synthesis and Study of Shape-Memory Polymers Selectively Induced by Near-Infrared Lights via In Situ Copolymerization. Polymers, 2017, 9, 181.	4.5	4
25	Photocatalysts: Construction of Self-Healing Internal Electric Field for Sustainably Enhanced Photocatalysis (Adv. Funct. Mater. 16/2019). Advanced Functional Materials, 2019, 29, 1970105.	14.9	2
26	Dual-layered up-conversion films with tunable multi-peaks spectrum for efficient photocatalytic degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 417, 113360.	3.9	2
27	Controlled Synthesis and Upconversion Luminescence Properties of Yb ³⁺ -Tm ³⁺ Codoped NaYF ₄ Hexagonal Submicroplates. Advanced Materials Research, 0, 528, 117-120.	0.3	1