Ronglei Fan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5075465/publications.pdf

Version: 2024-02-01

20 papers	800 citations	567281 15 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	1001 citing authors

#	Article	IF	Citations
1	NiMoFe/Cu nanowire coreâ€“shell catalysts for high-performance overall water splitting in neutral electrolytes. Chemical Communications, 2022, 58, 1569-1572.	4.1	14
2	Gradientâ€Structuring Manipulation in Ni₃S₂ Layer Boosts Solar Hydrogen Production of Si Photocathode in Alkaline Media. Advanced Energy Materials, 2022, 12, .	19.5	9
3	Steering the Pathway of Plasmonâ€Enhanced Photoelectrochemical CO₂ Reduction by Bridging Si and Au Nanoparticles through a TiO₂ Interlayer. Small, 2022, 18, e2201882.	10.0	19
4	Oxygen-vacancy-rich nickel hydroxide nanosheet: a multifunctional layer between Ir and Si toward enhanced solar hydrogen production in alkaline media. Energy and Environmental Science, 2022, 15, 3051-3061.	30.8	27
5	Sulfide@hydroxide coreâ€“shell nanostructure via a facile heating-electrodeposition method for enhanced electrochemical and photoelectrochemical water oxidation. Journal of Energy Chemistry, 2021, 58, 431-440.	12.9	23
6	Activating the MoS₂ Basal Plane toward Enhanced Solar Hydrogen Generation via in Situ Photoelectrochemical Control. ACS Energy Letters, 2021, 6, 267-276.	17.4	27
7	Integration of Oxygenâ€Vacancyâ€Rich NiFeâ€Layered Double Hydroxide onto Silicon as Photoanode for Enhanced Photoelectrochemical Water Oxidation. ChemSusChem, 2020, 13, 3893-3900.	6.8	17
8	Enhancing the electrochemical activity of an IrOxâ€“Ta2O5/Ti anode via radiofrequency-driven rapid plasma annealing. Surface and Coatings Technology, 2020, 396, 125961.	4.8	4
9	Highly efficient and stable Si photocathode with hierarchical MoS2/Ni3S2 catalyst for solar hydrogen production in alkaline media. Nano Energy, 2020, 71, 104631.	16.0	51
10	Atomic Ir-doped NiCo layered double hydroxide as a bifunctional electrocatalyst for highly efficient and durable water splitting. Journal of Materials Chemistry A, 2020, 8, 9871-9881.	10.3	144
11	Unassisted solar water splitting with 9.8% efficiency and over 100 h stability based on Si solar cells and photoelectrodes catalyzed by bifunctional Niâ€“Mo/Ni. Journal of Materials Chemistry A, 2019, 7, 2200-2209.	10.3	63
12	Coating of Ni on Fe (oxy)hydroxide: Superior Catalytic Activity for Oxygen-Involved Reaction During Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 19832-19838.	6.7	17
13	Silicon based photoelectrodes for photoelectrochemical water splitting. Optics Express, 2019, 27, A51.	3.4	62
14	11.5% efficiency of TiO₂ protected and Pt catalyzed n⁺np⁺-Si photocathodes for photoelectrochemical water splitting: manipulating the Pt distribution and Pt/Si contact. Chemical Communications, 2018, 54, 543-546.	4.1	35
15	Efficient n+p-Si photocathodes for solar H2 production catalyzed by Co-W-S and stabilized by Ti buffer layer. Applied Catalysis B: Environmental, 2018, 237, 158-165.	20.2	32
16	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS₂ Films for Solar Hydrogen Production. ACS Applied Materials & Interfaces, 2017, 9, 6123-6129.	8.0	96
17	More than 10% efficiency and one-week stability of Si photocathodes for water splitting by manipulating the loading of the Pt catalyst and TiO₂ protective layer. Journal of Materials Chemistry A, 2017, 5, 18744-18751.	10.3	61
18	Surface passivation and protection of Pt loaded multicrystalline pn+ silicon photocathodes by atmospheric plasma oxidation for improved solar water splitting. Applied Physics Letters, 2016, 109, .	3.3	13

#	Article	IF	Citations
19	Stable and efficient multi-crystalline n+p silicon photocathode for H2 production with pyramid-like surface nanostructure and thin Al2O3 protective layer. Applied Physics Letters, 2015, 106, .	3.3	60
20	n-type silicon photocathodes with Al-doped rear p+ emitter and Al2O3-coated front surface for efficient and stable H2 production. Applied Physics Letters, 2015, 106, .	3.3	26