

# Ronglei Fan

## List of Publications by Year in descending order

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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	Atomic Ir-doped NiCo layered double hydroxide as a bifunctional electrocatalyst for highly efficient and durable water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9871-9881.	10.3	144
2	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS <sub>2</sub> Films for Solar Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6123-6129.	8.0	96
3	Unassisted solar water splitting with 9.8% efficiency and over 100 h stability based on Si solar cells and photoelectrodes catalyzed by bifunctional Ni <sup>2+</sup> /Mo/Ni. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2200-2209.	10.3	63
4	Silicon based photoelectrodes for photoelectrochemical water splitting. <i>Optics Express</i> , 2019, 27, A51.	3.4	62
5	More than 10% efficiency and one-week stability of Si photocathodes for water splitting by manipulating the loading of the Pt catalyst and TiO <sub>2</sub> protective layer. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18744-18751.	10.3	61
6	Stable and efficient multi-crystalline n+p silicon photocathode for H <sub>2</sub> production with pyramid-like surface nanostructure and thin Al <sub>2</sub> O <sub>3</sub> protective layer. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	60
7	Highly efficient and stable Si photocathode with hierarchical MoS <sub>2</sub> /Ni <sub>3</sub> S <sub>2</sub> catalyst for solar hydrogen production in alkaline media. <i>Nano Energy</i> , 2020, 71, 104631.	16.0	51
8	11.5% efficiency of TiO <sub>2</sub> protected and Pt catalyzed n <sup>+</sup> -p <sup>+</sup> -Si photocathodes for photoelectrochemical water splitting: manipulating the Pt distribution and Pt/Si contact. <i>Chemical Communications</i> , 2018, 54, 543-546.	4.1	35
9	Efficient n+p-Si photocathodes for solar H <sub>2</sub> production catalyzed by Co-W-S and stabilized by Ti buffer layer. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 158-165.	20.2	32
10	Activating the MoS <sub>2</sub> Basal Plane toward Enhanced Solar Hydrogen Generation via <i>in Situ</i> Photoelectrochemical Control. <i>ACS Energy Letters</i> , 2021, 6, 267-276.	17.4	27
11	Oxygen-vacancy-rich nickel hydroxide nanosheet: a multifunctional layer between Ir and Si toward enhanced solar hydrogen production in alkaline media. <i>Energy and Environmental Science</i> , 2022, 15, 3051-3061.	30.8	27
12	n-type silicon photocathodes with Al-doped rear p <sup>+</sup> emitter and Al <sub>2</sub> O <sub>3</sub> -coated front surface for efficient and stable H <sub>2</sub> production. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	26
13	Sulfide@hydroxide core-shell nanostructure via a facile heating-electrodeposition method for enhanced electrochemical and photoelectrochemical water oxidation. <i>Journal of Energy Chemistry</i> , 2021, 58, 431-440.	12.9	23
14	Steering the Pathway of Plasmon-Enhanced Photoelectrochemical CO <sub>2</sub> Reduction by Bridging Si and Au Nanoparticles through a TiO <sub>2</sub> Interlayer. <i>Small</i> , 2022, 18, e2201882.	10.0	19
15	Coating of Ni on Fe (oxy)hydroxide: Superior Catalytic Activity for Oxygen-Involved Reaction During Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19832-19838.	6.7	17
16	Integration of Oxygen-Vacancy-Rich NiFe <sub>2</sub> Layered Double Hydroxide onto Silicon as Photoanode for Enhanced Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2020, 13, 3893-3900.	6.8	17
17	NiMoFe/Cu nanowire core-shell catalysts for high-performance overall water splitting in neutral electrolytes. <i>Chemical Communications</i> , 2022, 58, 1569-1572.	4.1	14
18	Surface passivation and protection of Pt loaded multicrystalline pn <sup>+</sup> silicon photocathodes by atmospheric plasma oxidation for improved solar water splitting. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	13

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19	Gradient-Structured Manipulation in Ni <sub>3</sub> S <sub>2</sub> Layer Boosts Solar Hydrogen Production of Si Photocathode in Alkaline Media. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	9
20	Enhancing the electrochemical activity of an IrOx-Ta <sub>2</sub> O <sub>5</sub> /Ti anode via radiofrequency-driven rapid plasma annealing. <i>Surface and Coatings Technology</i> , 2020, 396, 125961.	4.8	4