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**Economically advantageous pathways for reducing greenhouse gas emissions from industrial hydrogen under common, current economic conditions**

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**Energy and Environmental Science, 2021, 14, 1517-1529.**

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#	Paper	IF	Citations
19	Life-cycle greenhouse gas emissions and net energy assessment of large-scale hydrogen production via electrolysis and solar PV. <i>Energy and Environmental Science</i> ,	35.4	10
18	Sector coupling via hydrogen to lower the cost of energy system decarbonization. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 4635-4646	35.4	5
17	Electrodialysis based waste utilization methodology for the desalination industry. <i>Desalination</i> , <b>2021</b> , 520, 115327	10.3	1
16	The Applications of Molecular Hydrogen in Horticulture. <i>Horticulturae</i> , <b>2021</b> , 7, 513	2.5	2
15	Assessment and multi-objective optimization of a vanadium-chlorine thermochemical cycle integrated with algal biomass gasification for hydrogen and power production. <i>Energy Conversion and Management</i> , <b>2022</b> , 253, 115132	10.6	2
14	Preharvest application of hydrogen nanobubble water enhances strawberry flavor and consumer preferences.. <i>Food Chemistry</i> , <b>2021</b> , 377, 131953	8.5	1
13	Toward a Fundamental Understanding of Geological Hydrogen Storage. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 3233-3253	3.9	10
12	Energy, environment, and economic analyses on a novel hydrogen production method by electrified steam methane reforming with renewable energy accommodation. <i>Energy Conversion and Management</i> , <b>2022</b> , 258, 115513	10.6	3
11	Hydrogen production coupled with water and organic oxidation based on layered double hydroxides. <i>Exploration</i> , <b>2021</b> , 1, 20210050		17
10	Mono-dimensional and two-dimensional models for chemical looping reforming with packed bed reactors and validation under real process conditions. <i>Sustainable Energy and Fuels</i> ,	5.8	0
9	Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO to Formate.. <i>Small</i> , <b>2022</b> , e2201311	11	5
8	Large-scale overseas transportation of hydrogen: Comparative techno-economic and environmental investigation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 165, 112556	16.2	1
7	Using the Multiple Linear Regression Method for CO2 Flooding Evaluation in the Daqing Oilfield. <i>Frontiers in Energy Research</i> , 10,	3.8	
6	Plasma for aquaponics. <b>2022</b> ,		0
5	Renewable Power for Electrocatalytic Generation of Syngas: Tuning the Syngas Ratio by Manipulating the Active Sites and System Design.		0
4	Environmental impact assessment of hydrogen production via steam methane reforming based on emissions data. <b>2022</b> , 8, 13585-13595		0
3	Nanoengineered Carbon-Based Interfaces for Advanced Energy and Photonics Applications: A Recent Progress and Innovations. 2201739		0

- 2 Zinc Single Atom Confinement Effects on Catalysis in 1T-Phase Molybdenum Disulfide. ○
- 1 Plasma surface treatment facilitated visible light-driven H<sub>2</sub> production over TiO<sub>2</sub>. **2023**, 36, 102626 ○