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Prospects and Challenges of Green Hydrogen Economy via Multi-Sector Global Symbiosis in Qatar

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#	Paper	IF	Citations
31	MXenes: Emerging 2D materials for hydrogen storage. <i>Nano Energy</i> , 2021 , 85, 105989	17.1	25
30	Sustainable hydrogen roadmap: A holistic review and decision-making methodology for production, utilisation and exportation using Qatar as a case study. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	16
29	Comparative Economic Optimization for an Overseas Hydrogen Supply Chain Using Mixed-Integer Linear Programming. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14249-14262	8.3	1
28	Thermocatalytic Hydrogen Production Through Decomposition of Methane-A Review. <i>Frontiers in Chemistry</i> , 2021 , 9, 736801	5	3
27	Hydrogen Storage in Bilayer Hexagonal Boron Nitride: A First-Principles Study. <i>ACS Omega</i> , 2021 , 6, 30362-30370	3.9	0
26	Theoretical realization of hybrid Weyl state and associated high catalytic performance for hydrogen evolution in NiSi.. <i>IScience</i> , 2022 , 25, 103543	6.1	4
25	An Overview of Recent Advancements in Microbial Polyhydroxyalkanoates (PHA) Production from Dark Fermentation Acidogenic Effluents: A Path to an Integrated Bio-Refinery.. <i>Polymers</i> , 2021 , 13,	4.5	2
24	Practicality of Green H2 Economy for Industry and Maritime Sector Decarbonization through Multiobjective Optimization and RNN-LSTM Model Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 6173-6189	3.9	1
23	A simple decagram-scale synthesis of an atomically dispersed, hierarchically porous Fe ₃ N ₄ catalyst for acidic ORR. <i>Journal of Materials Chemistry A</i> ,	13	0
22	Nanoengineering of Catalysts for Enhanced Hydrogen Production. <i>Hydrogen</i> , 2022 , 3, 218-254	1.8	1
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17	Challenges and Opportunities in Carbon Capture, Utilization and Storage: A Process Systems Engineering Perspective. <i>Computers and Chemical Engineering</i> , 2022 , 107925	4	1
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- 13 Dimer-hydrogen adsorption process on borophene $\overline{112}$ surfaces for hydrogen storage application. **2022**, ○
- 12 Sustainable Production of Layered Bismuth Oxyhalides for Photocatalytic H₂ Production. **2022**, 10, 15622-15641
- 11 Qatar in the Energy Transition: Low Carbon Economy Challenges and Opportunities. **2023**, 109-126 ○
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