

RSC Sustainability

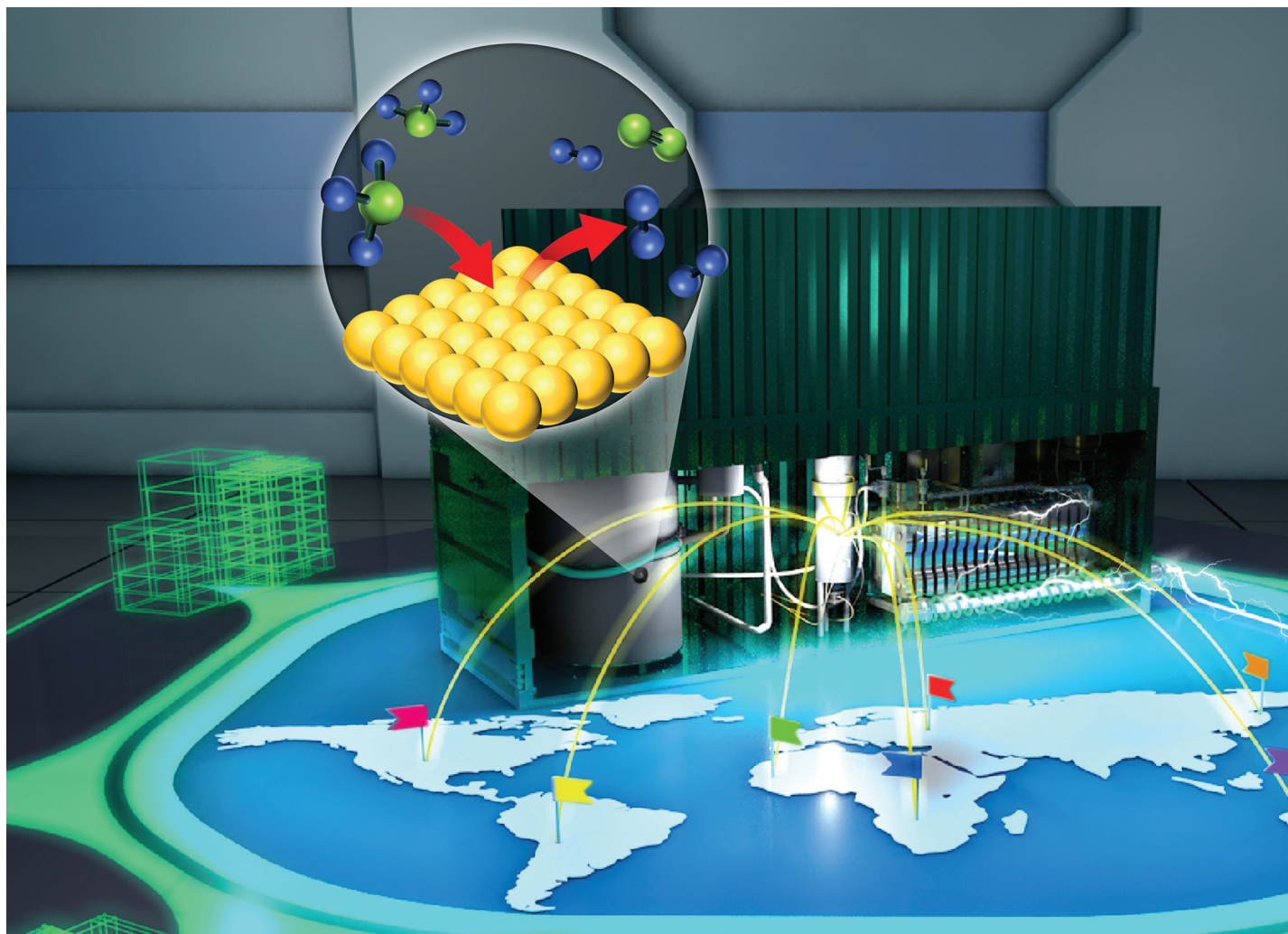
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Fundamental questions
Elemental answers

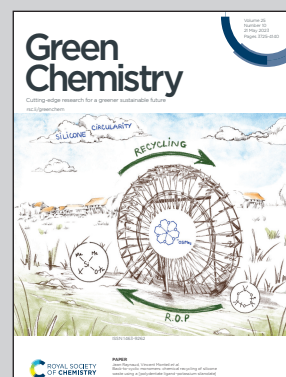


Showcasing work by Sustainable Process Analysis, Design, and Engineering (SPADE) laboratory of Prof. Hankwon Lim at Ulsan National Institute of Science and Technology, Ulsan, Korea and Advanced Chemical Hydrogen Energy Storage LAB of Prof. Chang Won Yoon at Pohang University of Science and Technology, Pohang, Korea.

Feasibility of electricity generation based on ammonia-to-hydrogen-to-power system

This study utilizes techno-economic, carbon footprint, and scenario analyses to investigate an Ammonia-to-Hydrogen-to-Power system as a means of reducing carbon emissions and replacing hydrogen storage. The study identifies feasible conditions and countries for the system based on the Levelized cost of electricity and emissions considering ammonia production and utilization.

As featured in:



See Chang Won Yoon, Hankwon Lim et al., *Green Chem.*, 2023, 25, 3888.