Review of: "Low-Carbon Hydrogen Economy Perspective and Net Zero-Energy Transition through Proton Exchange Membrane Electrolysis Cells (PEMECs), Anion Exchange Membranes (AEMs) and Wind for Green Hydrogen Generation"

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Potential competing interests: No potential competing interests to declare.

In this paper, authors reviewed sustainable and efficient low-carbon hydrogen generation methods. Wind and solar energy are integrated with anion exchange membranes (AEMs) and proton exchange membrane fuel cells (PEMFCs) for the generation of green hydrogen. The topic is relevant and well-reviewed. The conclusions are corroborated with relevant figures and tables. In my opinion, the authors may compare other methods of power/energy generation with hydrogen energy, especially carbon emissions in these and carbon mitigation techniques. Also, some of the latest work regarding carbon capture may be included. Few of these references are given below: Physics and Chemistry of Liquids, in press, 2024; Korean Journal of Chemical Engineering 41 (3), 715-728, 2024; Journal of Molecular Liquids 393, 123605, 2024; Korean Journal of Chemical Engineering 40 (9), 2293–2302, 2023; Journal of Molecular Liquids 382, 121967, 2023; Journal of Molecular Liquids 326, 115253, 2021; Journal of Molecular Liquids 326, 115240, 2021; Journal of Molecular Liquids 325, 115170, 2021; Environmental Chemistry Letters 19, 875-910, 2021; Korean Chemical Engineering Research 59 (4), 644-651, 2021; The Journal of Chemical Thermodynamics 195, 107291, 2024.