



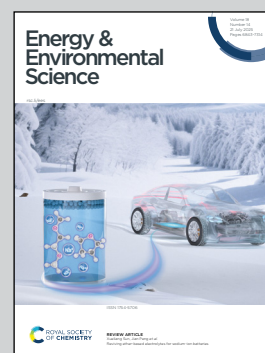
Showcasing research from Professor HePing Xie's laboratory, State Key Laboratory of Intelligent Construction and Healthy Operation and Maintenance of Deep Underground Engineering, College of Polymer Science and Engineering, Sichuan University & Shenzhen University, Chengdu, China.

A gel electrolyte-based direct seawater electrolysis

A flexible gel electrolyte with high ionic conductivity, water capture performance and excellent mechanical properties was developed and prepared, and it was used for direct electrolysis of seawater. The system used untreated real seawater and operated stably for more than 400 hours at a current density of 250 mA cm^{-2} .

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As featured in:



See Zhiyu Zhao, Tao Liu, Heping Xie *et al.*, *Energy Environ. Sci.*, 2025, **18**, 7048.