



Showcasing research from Professor Lin Li's laboratory,  
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Ion engines in hydrogels boosting hydrovoltaic electricity  
generation

This work proposes constructing an ionisation group concentration gradient in hydrogels for designing a hydrovoltaic electricity generator. The gradient can accelerate ion migration like an ion engine, considerably improving the current performance by 1 to 2 orders of magnitude. The high flexibility and scalability of hydrogels provide convenience for sweat monitoring, powering unmanned boats, and so on, having great potential for future sustainable energy technology.

As featured in:



See Lin Li *et al.*,  
*Energy Environ. Sci.*, 2023, **16**, 2494.