

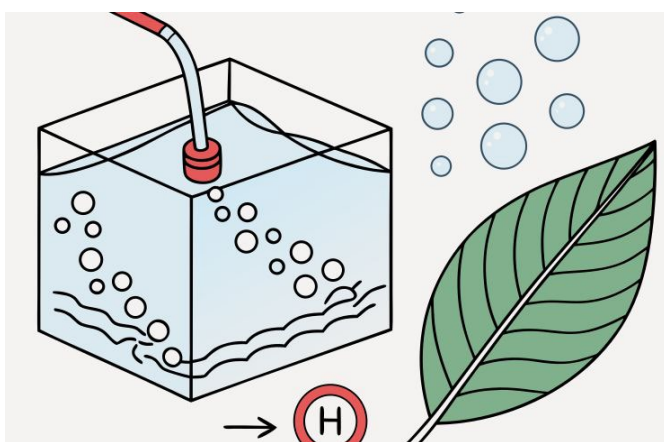


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Tami Hood

NTU artificial leaf advances green hydrogen production from seawater while tackling hydrazine contamination

A team at NTU has developed an artificial leaf that uses sunlight to produce hydrogen from seawater and simultaneously degrades toxic hydrazine using a perovskite photocathode and oxide catalyst.



Researchers at Nanyang Technological University in Singapore have introduced an innovative self-powered artificial leaf that harnesses sunlight to generate hydrogen from electrolytes found in seawater, all while breaking down hydrazine, which is a toxic industrial chemical. This clever little device combines photoelectrochemical technology—a lead-halide perovskite photocathode paired with an iron-cobalt-chromium oxide catalyst—into one sleek module that tackles both green hydrogen production and wastewater treatment in a single swoop.

<https://www.hydrogenfuelnews.com/ntu-artificial-leaf-advances-green-hydrogen-production-from-seawater-while-tackl/8576735/>