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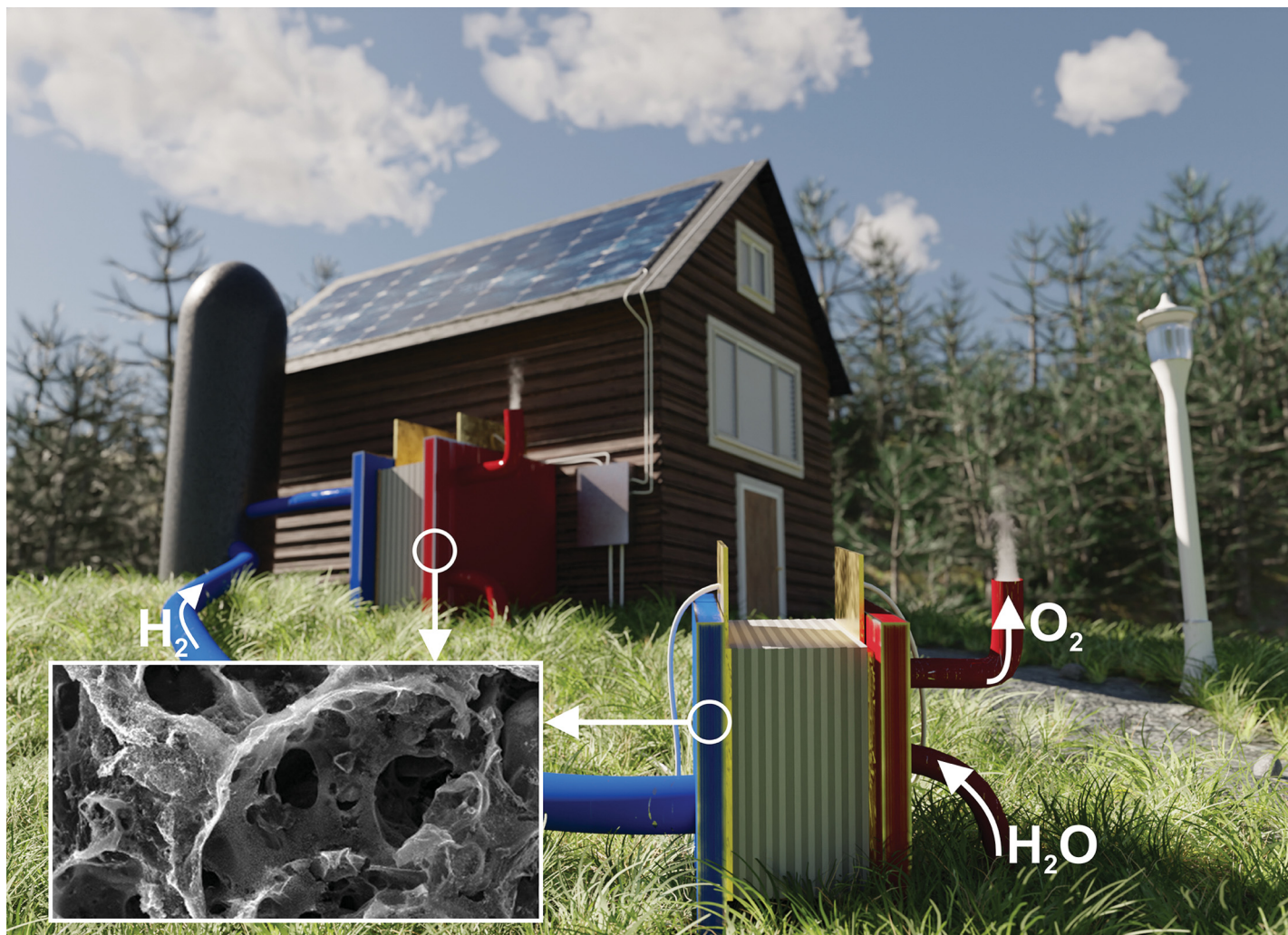
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**Showcasing research from the group of
Assoc. Prof. Eduardo Gracia-Espino at Umeå University,
Sweden.**

Scalable production of foam-like nickel-molybdenum
coatings *via* plasma spraying as bifunctional electrocatalysts
for water splitting

This work investigates the scalable production of foam-like nanostructured Ni-Mo coatings containing the highly active Ni_4Mo *via* atmospheric plasma spraying. The Ni-Mo coatings exhibit high activity towards both hydrogen evolution and oxygen evolution reactions in alkaline media. Large-area electrodes are produced in seconds with variable material loading without compromising the foam-like structure. Theoretical activity maps reveal that Ni_4Mo exhibit reduced hydrogen adsorption energies and enhanced water dissociation which ultimately results in improved catalytic activity.

As featured in:



See Eduardo Gracia-Espino *et al.*,
Phys. Chem. Chem. Phys.,
2023, **25**, 20794.