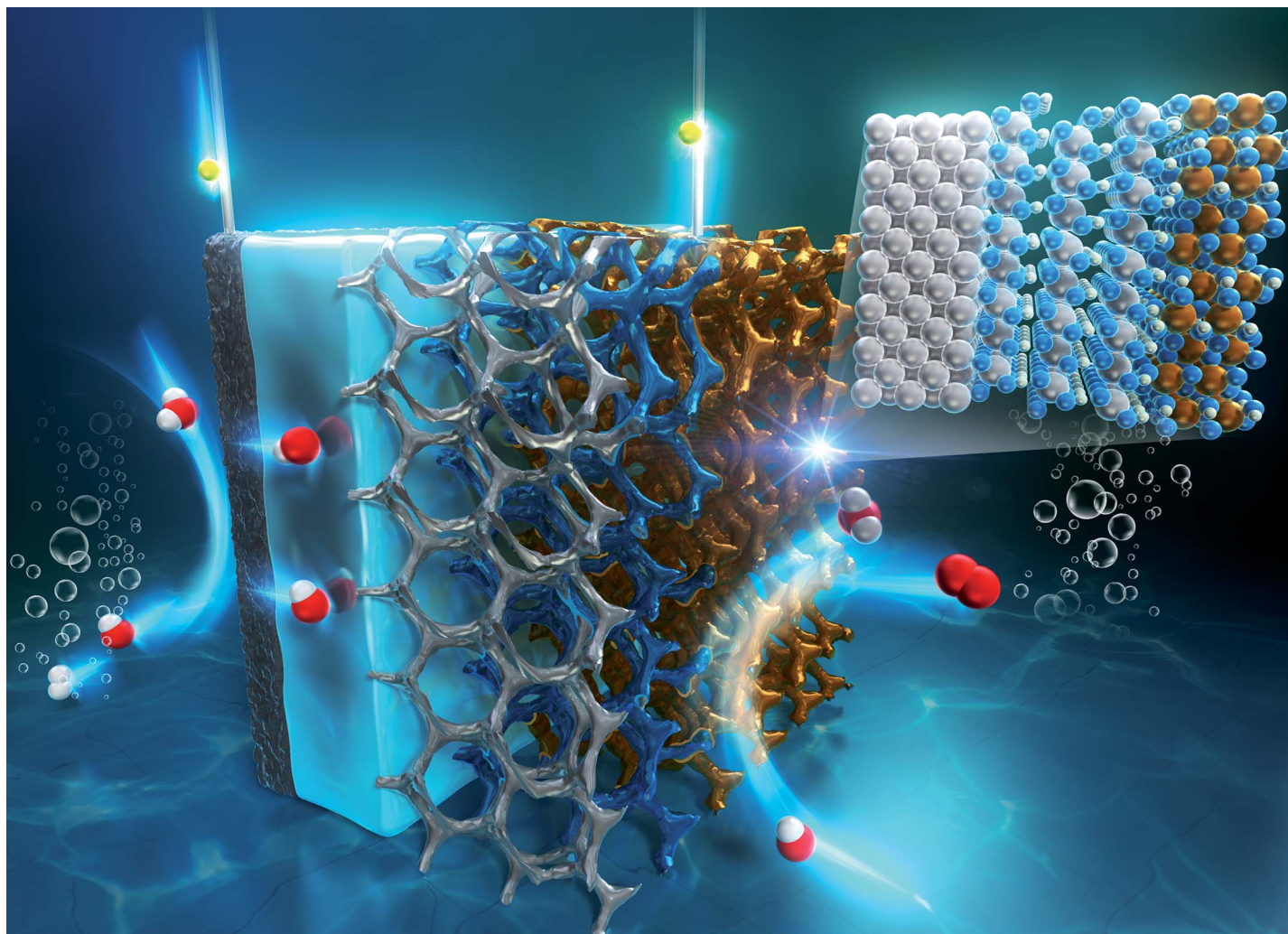




**Showcasing research from Yamaguchi-Kuroki laboratory,
Laboratory for Chemistry and Life Science, Institute of Science
Tokyo, Yokohama, Japan.**

An electrochemically engineered layer of γ -NiOOH with FeOOH on nickel foam for durable OER catalysis for anion exchange membrane water electrolysis

An efficient and durable oxygen evolution reaction (OER) catalyst for alkaline/anion exchange membrane water electrolysis has been developed by a simple two-step electrochemical process. The two-step processes involve the selective modification of γ -NiOOH on the surface of Ni foam followed by the deposition of Fe. The synergistic effect of γ -NiOOH and FeOOH on the modified surface is demonstrated to improve OER activity and durability.

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See Takeo Yamaguchi *et al.*,
RSC Sustainability, 2025, **3**, 1705.