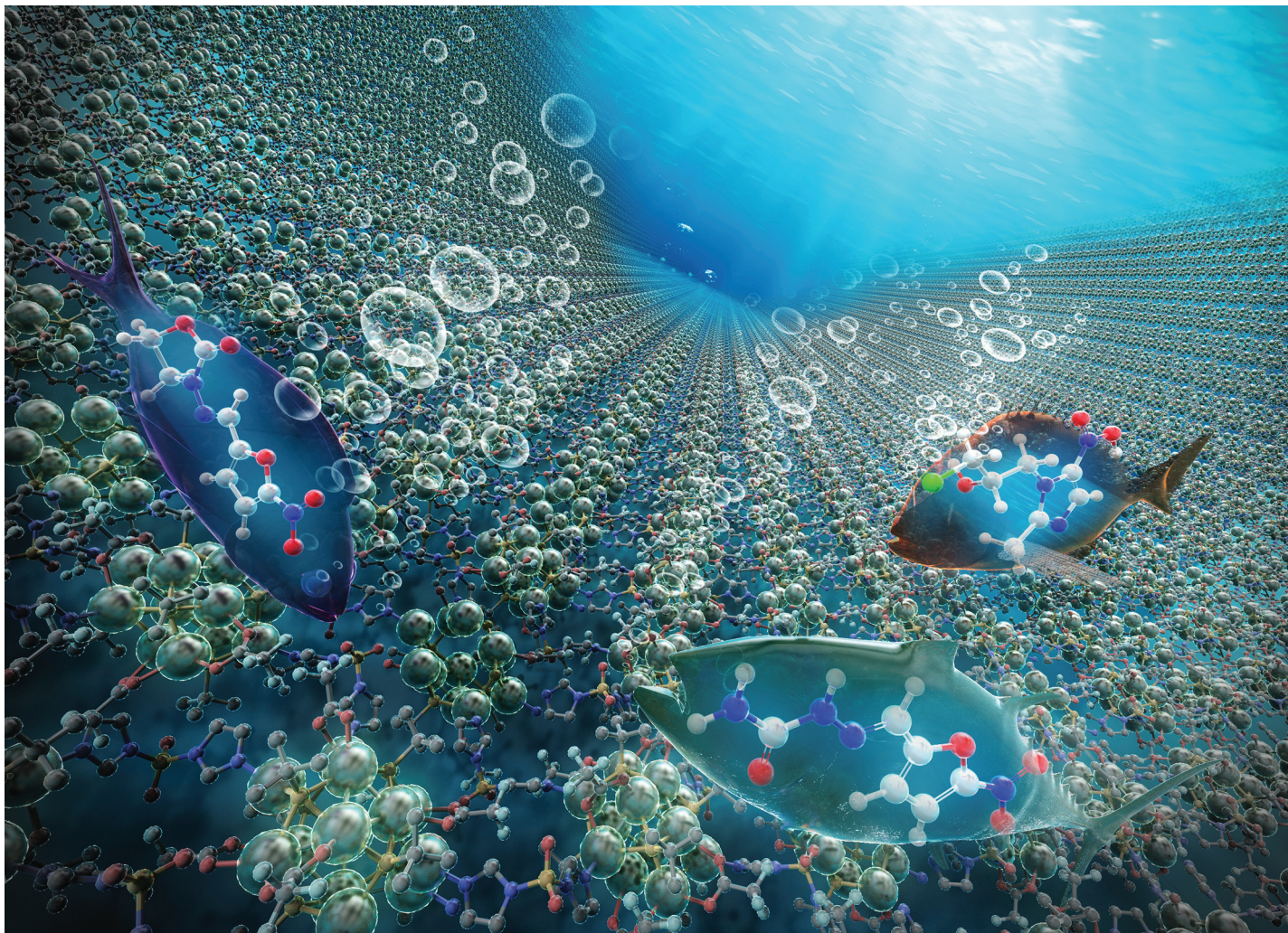


# EES Batteries

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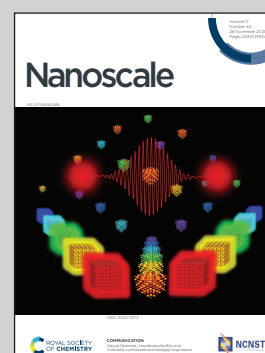
Showcasing research from Prof. Yuichi Negishi's laboratory, Tohoku University, and Tanaka Precious Metal Technologies Co., Ltd., Japan.

Reticular construction of a two-dimensional  $\text{Ag}_{12}$  cluster-assembled material for rapid and selective luminescent sensing of antibiotics in aqueous media

**TUS 8**, a two-dimensional silver cluster-assembled material built from  $\text{Ag}_{12}$  nodes and SDI linkers, features a robust (2,4)-connected framework with strong UV absorption (215 nm) and bright aqueous emission (344 nm,  $\Phi = 26.3\%$ ). Its rigid structure and  $\text{Ag}\cdots\text{Ag}$  interactions enhance luminescence and stability in solvents, enabling recyclable detection of antibiotics in water with distinct photoluminescence responses and high quenching efficiency.

Image reproduced by permission of Yuichi Negishi from *Nanoscale*, 2025, **17**, 25495.

As featured in:



See Shuntaro Takahashi, Saikat Das, Yuichi Negishi *et al.*, *Nanoscale*, 2025, **17**, 25495.