

Showcasing research from Professor Oaki's laboratory, Department of Applied Chemistry, Keio University, Yokohama, Japan.

Efficient design and synthesis of an amorphous conjugated polymer network for a metal-free electrocatalyst of hydrogen evolution reaction

A catalytic performance predictor for metal-free electrocatalysts of hydrogen evolution reaction was constructed using small data with combining machine learning and our chemical insight. Based on the prediction, amorphous conjugated polymer network, a new family of functional molecular assemblies, was designed and synthesized to achieve the high catalytic performance. The amorphous conjugated polymer networks showed the specific hydration state.



