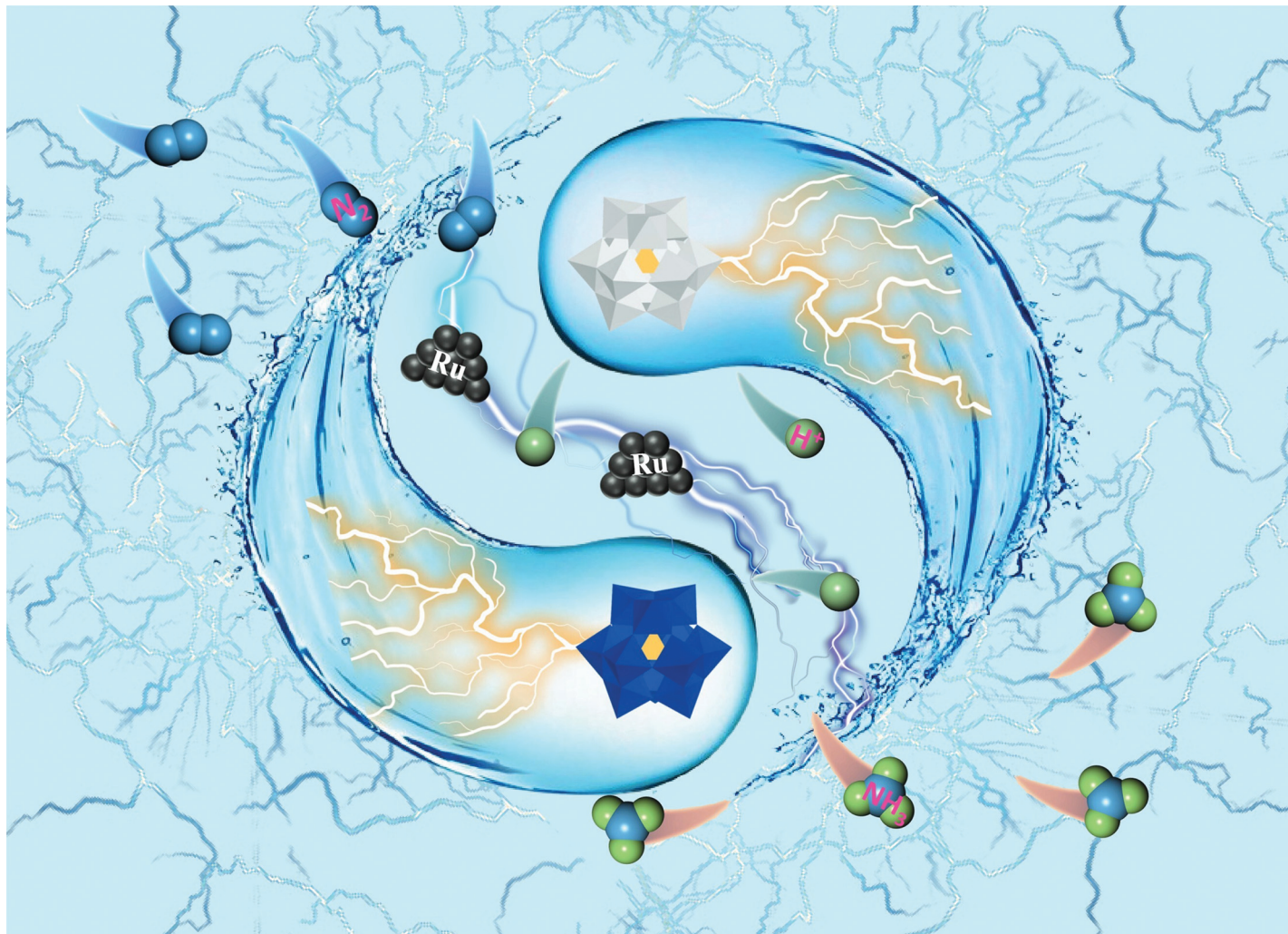


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Showcasing work by Associate Professor Wei Sun and Professor Bin Dai *et al.* from Shihezi University, China and Professor Jichang Liu from East China University of Science and Technology, China.

Electrochemical hydrogenation of nitrogen to ammonia under ambient conditions in a suspended dual-catalyst system

A suspended electrocatalytic dual-catalyst system was designed to realize the nitrogen hydrogenation into ammonia with high faradaic efficiency and high working current density. Silicotungstic acid (SiW_{12}) was used as an electron captor and a suspended Ru-metal catalyst was used as nitrogen fixation catalyst, so that the catalyst particles could be detached from the electrode, which is quite different from common electrochemical systems.

As featured in:



See Wei Sun, Bin Dai *et al.*, *Green Chem.*, 2025, 27, 2404.