



**Showcasing research from Prof. Yuichi Negishi's laboratory,  
Tokyo University of Science, Japan.**

Atomically precise metal nanoclusters as catalysts for electrocatalytic CO<sub>2</sub> reduction

Electrochemical carbon dioxide (CO<sub>2</sub>) reduction can be used to convert CO<sub>2</sub> into various compounds at room temperature and ambient pressure using electricity generated from renewable energy sources. In recent years, metal nanoclusters, which are metal particles with a size of approximately 1 nm, have been reported to be capable of electrochemical CO<sub>2</sub> reduction with high activity and selectivity. This review summarizes the synthesis methods of atomically precise metal nanoclusters and their application in electrochemical CO<sub>2</sub> reduction.

**As featured in:**



See Tokuhiwa Kawawaki,  
Yuichi Negishi *et al.*, *Green Chem.*,  
2024, 26, 122.