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Showcasing research from Prof. Yuanhong Zhong's group at Key Laboratory of Clean Chemistry Technology of Guangdong Regular Higher Education Institutions, Guangdong University of Technology, 510006 Guangzhou, P. R. China.

Active-site stabilized Bi metal-organic framework-based catalyst for highly active and selective electroreduction of CO₂ to formate over a wide potential window

A bismuth-terephthalate framework (Bi-BDC MOF) material was successfully synthesized. The optimized Bi-BDC-120 °C exhibited excellent activity, selectivity, and durability for formate production. The long-term durability for formate production was attributed to the fact that the *in situ* reconstructed Bi₂O₂CO₃ could retain the Bi-O active sites in the structure.

As featured in:



See Yuanhong Zhong, Ying Wu, Lin Yu *et al.*, *Nanoscale*, 2023, **15**, 19522.