**Electrochemical Reduction of Carbon Dioxide**

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Sustainable technologies focused on carbon dioxide utilisation are essential if we are to shift to new sources of energy supply and mitigate climate change. Among technologies developed so far, those based on electrochemistry, which utilize electricity from intermittent renewable sources as the energy input, are particularly attractive since they offer excellent scalability for industrial implementation. Commercially feasible electrochemical processes for carbon dioxide utilisation require the use of highly stable and active catalysts to overcome high energy barriers associated with the relevant reactions. A major obstacle in designing advanced catalysts is the immature understanding of the mechanisms and activity associated with the complex catalytic reactions. This talk highlights the recent progress in electrocatalyst design and characterization by the Monash Electrochemistry Group.[1-5]

**References**

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