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Catalytic, Photocatalytic and Electrocatalytic Processes for the Valorisation of CO₂

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Deadline for manuscript submissions:

closed (31 July 2018)

Message from the Guest Editors

Increasing attention is paid to develop effective technologies for the sequestration of CO₂ and its storage. In a virtuous view, they should be followed by processes that can lead to its valorisation as chemical, e.g. for the regeneration of fuels, but also for the production of intermediates. These are usually energy demanding and rather slow processes, requiring energy input and catalysts. Some examples are the innovative strategies for the photoconversion or electroreduction of carbon dioxide. This special issue collects original research papers, reviews and commentaries focused on the challenges for the valorisation and conversion of CO₂. Submissions are welcome especially (but not exclusively) in the following areas:

- Catalytic processes for the conversion of CO₂
- Photocatalytic processes for the conversion of CO₂
- Electrocatalytic processes for the conversion of CO₂
- Process design issues for the valorisation of CO₂
- Economic and life cycle assessment in the valorisation of CO₂
- Innovative processes and reactors for CO₂ conversion



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Special Issue