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Carbon Capture and Utilisation: Process Simulation, Modelling and Economics

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Further development of less energy-intensive CO_2 capture and separation processes is essential. Importantly, these processes should not only focus on decarbonisation of a particular industry but should also form a foundation for the creation of new business models, considering the utilisation of CO_2 as a route for its permanent storage. This Special Issue focuses on, but is not limited to:

- CO_2 capture—low-cost technologies for CO_2 separation from flue gases, syngas and direct air capture;
- CO_2 utilisation—competitive technologies for CO_2 utilisation as feedstock;
- Industrial decarbonisation—low-carbon process for cement, steel, chemicals production;
- Polygeneration of clean energy and chemicals—technologies for combined energy and chemicals production;
- Techno-economic analysis—novel approaches to assessing the techno-economic feasibility of the technologies across the CCUS chain.

Assoc. Prof. Dawid P. Hanak
Guest Editor

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Editor-in-Chief

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Message from the Editor-in-Chief

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