



## Functional Porous Materials

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Deadline for manuscript  
submissions:

**closed (31 October 2022)**

### Message from the Guest Editor

Dear Colleagues,

Porous materials provide an opportunity to achieve efficient sorption and removal of carbon dioxide from the atmosphere, with applications in Direct Air Capture (DAC). Surface and pore engineering are two key lever arms to enhance pumping speed. A key metric of grams carbon dioxide captured per square meter per second, combined with cycle time for adsorption and desorption, should be used in evaluating and comparing porous materials for DAC. Combined with the total enthalpy for the sorption and desorption cycle, the pumping speed provides a means to model large-scale DAC systems from bench scale experiments.

Dr. Robert Cormia  
Guest Editor





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## Message from the Editor-in-Chief

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