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Synthesis, Porous Structure Analysis, and Application of Sorbents in CO₂ Capture

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Message from the Guest Editor

The International Energy Agency has consistently highlighted that there is no unique or simple solution to meeting international neutral climate goals; cutting emissions is an urgent priority, but the development and deployment of carbon removal technologies using different CO₂ capture materials could play chief and complementary roles in shifting the energy sector toward carbon neutrality or negative emissions. This Special Issue, “Synthesis, Porous Structure Analysis, and Application of Sorbents in CO₂ capture” will address topics related, but not limited to, advances in the synthesis of sorbents for CO₂ capture; manipulation of sorbents porosity; supported and unsupported sorbents; micronized and nanosized sorbents; and stability, activity and regeneration of sorbents under different technologic applications, at low, medium, or high temperature. Additionally, bifunctional sorbent materials for CO₂ capture and conversion are welcome.

Original papers or reviews of efficient CO₂ capture sorbents synthesized by emerging and innovative techniques will be considered.



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Special Issue



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Message from the Editor-in-Chief

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