

Special Issue

Application of Catalysts in CO₂ Capture, Production and Utilization

Message from the Guest Editors

Currently, carbon capture, utilization, and storage (CCUS) technology has drawn research attention since 2020. There were intensive publications related to catalytic CO₂ absorption, desorption, and conversion. The reaction mechanisms, structure–activity correlation and catalysis have been the research focus for years. This Special Issue intends to publish manuscripts in the area of catalytic carbon capture, utilization and storage. The research area was focused on: Heterogeneous catalytic CO₂ absorption and desorption, oxy-combustion, catalytic CO₂ conversion, catalytic mechanism, heterogeneous catalytic models, reaction kinetics, and related research in selective catalytic reduction (SCR) of NO_x.

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Deadline for manuscript submissions

closed (31 December 2023)



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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).