

Special Issue

Catalysts in Environmental and Climate Protection

Message from the Guest Editors

The formation of large amounts of CO₂, nitrogen oxides, sulfur oxides, carbon monoxide, and/or volatile organic compounds (VOC)—both in conventional energy generation processes and key technological processes such as cement production, iron metallurgy, and chemical and refining industries—often necessitates the use of expensive procedures that minimize the amount of pollutants emitted into the environment. The solution to these problems is the application of various types of catalytic processes related to the removal of undesirable substances or their chemical utilization. Such processes include, for example, chemical CO₂ sequestration processes (dry reforming of methane, tri-reforming or methanation), glycerin processing, the refining of refinery industry products in hydrotreatment, hydroisomerization, or hydrooxidation processes, in addition to processes directly related to the removal of the previously mentioned compounds from waste gases. This Special Issue intends to present the most recent progress in the design of catalysts for environmental and climate protection.

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Deadline for manuscript submissions

closed (20 December 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/41392

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