

Special Issue

Additive Manufacturing for Catalytic Applications

Message from the Guest Editors

Additive manufacturing (AM) is the term that describes the technologies for building 3D objects by adding layer-upon-layer of several materials, mainly including plastics, metal, ceramic, and the possible intermediate systems. This revolution can also be transferred to catalysis, which continues to be one of the main drivers of the chemical industry worldwide, as additive manufacturing supposes the breakdown of paradigms by means of the creation of highly adaptable systems that can produce the modernization of practically all catalytic processes.

Therefore, considering the emerging character of the inclusion of AM in catalysis, this Special Issue aims to compile all of the possible initiatives that apply AM in any of the stages of development, or in the evaluation of applications of homogeneous or heterogeneous catalysis, including electro-chemical or photo-catalytic systems, as well as structured or microstructured catalysts. Neither will there be a preferred type of reaction, but special attention will be given to catalytic processes related to the capture and use of CO₂, the transformation of biomass, the production of hydrogen, and the purification of water.

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