Special Issue

Advances on Catalysts Based on Copper

Message from the Guest Editors

Copper-based catalysts are receiving increasing attention from the scientific community. They show high activity and peculiar selectivity in a wide range of different reactions such as methanol synthesis, steam reforming/WGS, hydrogenations/dehydrogenation/transfer hydrogenation, oxidations, dehydrogenative coupling, acid-base reactions,... These catalytic processes are, more and more, applied to the transformation of renewable feedstocks or platform molecules, such as lignocellulosic biomass, bioalcohols, HMF, furfural and vegetable oils. Therefore, copper catalysts will play an important role in the transition towards a sustainable economy. The properties of copper catalysts can be properly tuned and improved by carefully choosing the preparation method, the support, the presence of a second metal, and the calcination/pre-treatments conditions to boost their performances and stability.

Guest Editors

Dr. Filippo Bossola

Istituto di Scienze e Tecnologie Chimiche “Giulio Natta” - Consiglio Nazionale delle Ricerche, Via C. Golgi, 19 – 20133 Milano, Italy

Dr. Nicola Scotti

Istituto di Scienze e Tecnologie Chimiche “Giulio Natta”—Consiglio Nazionale delle Ricerche, Via C. Golgi, 19, 20133 Milano, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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