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Advances in Metal-Based Catalysts

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Message from the Guest Editors

Dear Colleagues,

Whether precious or non-noble, metals and their derived compounds—such as oxides, carbides, phosphides and nitrides—nowadays occupy a major role in a wide variety of catalytic processes. Their role as an active phase, supported or not on the surface of very different materials, has been extensively discussed but remains a subject of major concern, and new investigations are opened each day in order to find new metal–support or metal–metal combinations leading to improved catalytic performance.

The current Special Issue aims to gather the most innovative research on metal-based catalysts for any relevant catalytic process. Contributions on novel formulations, preparation procedures, detailed studies of durability and catalyst deactivation, as well as original pathways for the utilization of metal-containing catalysts, such as photo and/or electro-catalysis, will be welcomed.



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Special Issue



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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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