

## Special Issue

# Recent Advances and Strategies in the Development of Sustainable Metal Catalysts for Energy, Environment and Generation of High-Value Products

### Message from the Guest Editors

This Special Issue aims to discuss the recent advances in designing innovative non-toxic sustainable metal-based catalysts towards energy production, high-value products generation, and environmental remediation. We kindly invite you to submit your contribution to this Special Issue, whose topics include, but are not limited to the following:

- Current status and challenges in the green synthesis of cheap and ecofriendly metal-based catalysts
- Updates and perspectives on techno-economics and life cycle assessment of metal-based catalysts
- Development of low-metal loading catalysts
- Design of metal catalysts for the recycling and valorization of waste materials
- Upcycling of metal-containing waste materials into catalysts
- Application of metal-based catalysts for energy production and environmental remediation
- Biomass conversion into highly value products via metal-based catalysts: mechanistic and challenges
- Deactivation mechanisms of metal-based catalysts and approaches to control it

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### Guest Editors

Dr. Sebastiano Campisi  
Dr. Ridha Djellabi  
Dr. Melissa Greta Galloni

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### Deadline for manuscript submissions

closed (20 March 2024)



## Catalysts

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## About the Journal

### Message from the Editor-in-Chief

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