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

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Deadline for manuscript
submissions:

closed (20 March 2024)

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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Special Issue