## **Special Issue**

# Advances in Metal Catalyst: Synthesis and Application

## Message from the Guest Editors

This Special Issue on 'Advances in Metal Catalyst: Synthesis and Application' is dedicated to recent advances in the design, synthesis, and application of metal catalysts, with a particular focus on innovative synthetic strategies and system integration in diverse catalytic processes. Topics include, but are not limited to, the following:

- Novel synthesis methods for metal catalysts (e.g., templated growth, self-assembly, atomic layer deposition, confinement strategies).
- Tailoring of nanostructured, bimetallic, alloyed, and single-atom catalysts.
- Advanced characterization to correlate structure with performance.
- System-level integration of catalysts into thermal, electrochemical, and photochemical processes.
- Scalable reactor and process design involving metal catalysts.
- Catalytic applications in energy, environmental, and industrial transformations.
- Mechanistic and kinetic studies supporting catalyst design and application.
- Catalyst regeneration and long-term durability in integrated systems.

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## Deadline for manuscript submissions

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