

Special Issue

Noble Metal Catalysts

Message from the Guest Editors

Noble metals (NMs), i.e., ruthenium (Ru), rhodium (Rh), palladium (Pd), silver (Ag), osmium (Os), Iridium (Ir) platinum (Pt) and gold (Au), receive a great deal of research interest due to their remarkable, and in many cases unique, performances in numerous catalytic reaction systems, embracing both industrial reactions for the large-scale synthesis of commodity chemicals of global importance, as well as reactions that play a critical role in environmental protection and energy generation systems. This Special Issue aims to cover recent research progress, both theoretical and experimental, in the field of catalysis by noble metals. Advanced synthesis routes, physicochemical-textural-structural characterization of NM-based catalytic materials, activity-selectivity-durability evaluation under the titled reactions, fundamental understanding of structure-activity relationships or other metal-metal and metal-support interactions on multifunctional noble metal catalysts, as well as computational studies (e.g., DFT calculations), catalytic reaction mechanisms, and processes are very welcome.

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Deadline for manuscript submissions

closed (31 October 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/31739

Catalysts
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