

Special Issue

Old but (Not Only) Gold: New Frontiers on the Catalysis by Gold, Platinum and Nickel Nanoparticles

Message from the Guest Editors

Interest in metal nanoparticles has ruled the heterogeneous catalysis world for many decades. On one hand, platinum can be regarded as the king of hydrogenation catalysis since the early 40s. On the other hand, gold has always been considered the most inert metal. However, nanostructured gold exploded in importance with the discovery by M. Haruta in 1987 of its unexpected exceptional reactivity in CO oxidation at low temperature. As a non-noble metal, Ni has been investigated for a long time, indeed its story is as old as that of platinum, because Ni has always represented an appealing alternative to other more expensive catalyts. This Special Issue will collect original papers devoted to the synthesis, physicochemical characterization and catalytic performances of Au, Pt, and Ni-based catalyts (alone or in combination). The selected papers will contribute to establish structure–activity relationships and/or to improve the knowledge of those already determined. Both experimental and theoretical studies will be considered for publication.

Guest Editors

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Prof. Dr. Barbara Bonelli

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Deadline for manuscript submissions

closed (31 August 2020)



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Editor-in-Chief

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