catalysts

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 6.8

Nanocatalysis Towards Energy Transition and Environmental Sustainability

Collection Editors:

Prof. Dr. Michalis Konsolakis
School of Production Engineering and Management, Technical University of Crete, 73100 Chania, Greece

Dr. Sónia Carabineiro
LAQV/REQUIMTE, Department of Chemistry, NOVA School of Science and Technology, NOVA University of Lisbon, Largo da Torre, 2829-516 Caparica, Portugal

Message from the Collection Editors

The present topical collection is focused on the recent theoretical and experimental advances in the field of nanocatalysis, covering all aspects from novel synthetic methods to fine-tuning engineering strategies and advanced characterization studies. Size, shape, and porous engineering at the nanoscale in conjunction with the use of appropriate promotional strategies (e.g., aliovalent doping, surface promotion, special pretreatment protocols, etc.) could facilitate the development of nano- or atom-efficient catalysts with fine-tuned intrinsic and interfacial properties. All subjects related to nanoscale advanced synthesis, optimization, and characterization studies working towards the development of nano- or atom-efficient catalysts are perfectly matched to this topical collection. Moreover, theoretical and experimental studies focusing on the fundamental understanding of metal–support interactions and structure–property relationships are very welcomed.