



Feature Papers in Catalytic Materials

Guest Editor:

Dr. Leonarda Liotta

Institute of Nanostructured
Materials, Palermo Research
Division, CNR - ISMN, Via Ugo La
Malfa 153, 90146 Palermo, Italy

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editor

The choice and design of catalysts and electrode materials are key factors that determine the efficiency, selectivity, and economic viability of the valorisation process. The aim of the present Special Issue is to shed light on the possibilities and challenges of exhaust carbon valorisation and to inspire further technological innovation in this important area of research.

- materials for CO₂ capture and storage
- dry reforming of HC and alcohols
- water–gas shift reaction (WGS)
- preferential CO oxidation (PROX)
- CO₂ methanation
- syngas
- Fisher–Tropsch synthesis
- visible-light photocatalysis
- graphitic carbon nitride (g-C₃N₄)
- Ni-based catalysts
- TiO₂ and CeO₂-supported catalysts
- perovskites as cathode for solid oxide electrolysis cells (SOECs)

