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Feature Papers in Catalytic Materials

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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 CO_2 capture and storage
- dry reforming of HC and alcohols
- water–gas shift reaction (WGS)
- preferential CO oxidation (PROX)
- CO_2 methanation
- syngas
- Fisher–Tropsch synthesis
- visible-light photocatalysis
- graphitic carbon nitride (g-C3N4)
- Ni-based catalysts
- TiO_2 and CeO_2-supported catalysts
- perovskites as cathode for solid oxide electrolysis cells (SOECs)