Special Issue

Catalysts in Production of Clean Gasification Gas

Message from the Guest Editors

Catalysts play a key role in the development of technology to produce tar- and hydrocarbon-free synthesis gas from biomass and wastes. This Special Issue collects the developments done for gas clean-up for various synthesis applications. The developments have covered the most challenging and costly steps in biomass gasification-based processes: high-temperature gas filtration and reforming of hydrocarbon gases and tars. The tar content of product gas is one of the main factors defining the temperature window in which the hot-gas filtration can be used. Results from recent work on achieving higher and thus more economical operation temperatures are also included. Topics of great interest include the optimal operation of a catalytic reformer as well as novel reformer concepts.

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