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Plasma Catalysis

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2018)

Message from the Guest Editor

Dear Colleagues,

Plasma catalysis is gaining increasing interest for various gas conversion applications, such as CO_2 conversion, N_2 fixation, CH_4 conversion and air pollution control. Plasma catalysis allows thermodynamically difficult reactions to proceed at ambient pressure and temperature. However, plasma is very reactive but not selective, and thus a catalyst is needed to improve the selectivity.

Plasma catalysis is quite complicated, as the plasma will affect the catalyst and vice versa. Moreover, due to the reactive plasma environment, the most suitable catalysts will probably be different from thermal catalysts. More research is needed to better understand the plasma–catalyst interactions, in order to further improve the applications.

Submissions to this Special Issue are welcome in the form of original research papers or short reviews that reflect the state of the art in the above-mentioned applications.

Prof. Dr. Annemie Bogaerts
Guest Editor