

## Special Issue

# Diesel Soot Catalysis

### Message from the Guest Editor

Among the different alternatives to mitigate the Particulate Matter emissions from diesel vehicles, the entrapment of particulates from exhaust gases by Diesel Particulate Filters (DPFs) has received much interest. As the soot can be burnt off at  $>600\text{ }^{\circ}\text{C}$ , while typical diesel engine exhaust temperature is  $200\text{--}500\text{ }^{\circ}\text{C}$ , it's necessary to increase the catalytic oxidation rate at low temperatures. Moreover, the feasibility of soot combustion depends much on the catalyst-soot contact conditions, hence it's necessary to maximize their interaction. The most promising catalysts are stable materials that exhibit high mobility of the oxidizing species able to be effectively transferred to the soot surface under required conditions. The Special Issue aims to cover promising research in the field of diesel soot oxidation catalysis. Welcome are studies in: (1) novel catalytic materials and catalysts designs (2) scientific understanding of reaction pathways and kinetics (3) strategies for catalytic coatings into DPFs and filter regeneration and (4) coated-DPF modelling and simulation approaches.

### Guest Editor

Prof. Dr. Avelina García-García

Department of Inorganic Chemistry and Institute of Materials, University of Alicante, Sant Vicent del Raspeig, 03690 Alicante, Spain

### Deadline for manuscript submissions

closed (30 June 2019)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[catalysts@mdpi.com](mailto:catalysts@mdpi.com)

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