

Special Issue

Catalysts and Processes for H₂S Conversion to Sulfur

Message from the Guest Editor

Hydrogen sulfide is commonly found in raw natural gas and biogas, even if a great amount is obtained through sweetening of sour natural gas and hydrodesulphurization of light hydrocarbons. It is highly toxic, extremely corrosive and flammable, and for these reasons, its elimination is necessary prior to emission in atmosphere. The main focus of this Special Issue will be on catalytic oxidation processes, but the issue is devoted to the development of catalysts able to maximize H₂S conversion to sulfur minimizing SO₂ formation, pursuing the goal of “zero SO₂ emission”. The Special issue welcomes short communications, original research papers, and review papers concerning the formulation of novel catalysts for the optimization of the traditional processes or for new technologies. Submissions are welcome in the following areas:

- Preparation, physical–chemical characterization of novel catalysts;
- Optimization of the catalyst formulation and operating conditions;
- Study of the reaction mechanism and deactivation phenomena.

Guest Editor

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