

1. Record Nr.	UNINA9910557620503321
Autore	Barba Daniela
Titolo	Catalysts and Processes for H ₂ S Conversion to Sulfur
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (206 p.)
Soggetti	Environmental economics Pollution control Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Today, more stringent regulations on SO_x emissions and growing environmental concerns have led to considerable attention on sulfur recovery from hydrogen sulfide (H₂S). 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. There are different technologies for the removal of H₂S, the drawbacks of which are the high costs and limited H₂S conversion efficiency. 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". This Special Issue is particularly devoted to the preparation of novel powdered/structured supported catalysts and their physical-chemical characterization, the study of the aspects concerning stability and reusability, as well as the phenomena that could underlie the deactivation of the catalyst. This Special Issue comprises seven articles, one communication, and one review regarding the desulfurization of sour gases and fuel oil, as well as the synthesis of novel adsorbents and catalysts for H₂S abatement. In the following, a brief description of</p>

the papers included in this issue is provided to serve as an outline to encourage further reading.

2. Record Nr.	UNINA9910557337703321
Autore	Munoz-Perez Juan J
Titolo	Beach Nourishment: A 21st Century Review
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (174 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Erosion is experienced by most coastlines worldwide, and it is usually attributed not only to sea level rise but also to the retention of sand in dams, the occupation of dry beaches by urbanized areas, the mining of sand as a building material for construction, and so on. Beach nourishment has evolved as the favored erosion-mitigation strategy in many areas of the world. The increasing number of people living on the coast, the safety of those people, and the high values of coastal properties are all factors that have made beach nourishment a cost-effective strategy for managing erosion in many locations. However, a new scenario of sand scarcity and environmental care has arisen in recent decades. There have been many different and interesting cases of various aspects of beach nourishment in recent years. The purpose of this invited Special Issue is to publish the most exciting experience and research with respect to this topic. Thus, novel techniques for designing, executing, and controlling these kinds of works as well as different case studies and their monitoring results and conclusions have been included, in order to present an updated state of the art for marine scientists, researchers, and engineers.
