DEPARTMENT OF MOLECULAR SCIENCE AND NANOSYSTEMS

Seminars of the PhD Programme in Chemistry

Università Ca'Foscari Venezia

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Environmental Applications of Nanoporous Sludges

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Abstract

Sustainable Chemistry is aimed at satisfying the present needs without compromising future ones. The use of nanoporous waste produced in potable water treatment plants generates a series of research, development and innovation opportunities. This conference presents the use of nanoporous sludges, rich in iron and having a surface area of about 100 m^2/g in the elimination of bad odors (H_2S and NH_3) in wastewater treatment plants. Other applications of environmental concern are the selective oxidation of H_2S to sulfur, the capture of arsenic (As(V) and As(III)) in aqueous media, removal of volatile organic compounds (VOCs) at low temperatures and CO_2 capture.

L'organizzatore
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