



First Samples of Recycled ZnO from the GREENZO Project.

The first samples of recycled ZnO have already been obtained into the GREENZO Project. They come from the valorization of sludge from vibration and slag from melting.

The characterization of the recycled ZnO samples shows that they have a high surface area, up to 4 times higher than the surface area exhibited by the commercial zinc oxides. Its particle size, determined by X-ray Diffraction and Scanning Electron Microscopy, ranges between 2 and 3 times lower than the commercial zinc oxides.

Chemical analysis indicates the presence of impurities of alumina, silica and copper oxide (II) in the recycled ZnO. Although the amounts of these compounds can be considered small (<3%), they could significantly determine its final application.

Considering its use as catalyst support Dr. Chica, Tenured Scientist of CSIC at the Institute of Chemical Technology of Valencia, highlights the importance of its higher surface area compared with other commercial zinc oxides, and the presence of certain impurities such as CuO, which could be interesting for the preparation of efficient catalysts to produce hydrogen by the reforming of ethanol.

This project will be developed within 3 years, and it is funded by the European Commission through the LIFE13 ENV/ES/000173 GREENZO instrument. It is coordinated by AIJU; while ITQ-CSIC, WORTEUROPE and CAUCHOS KAREY participate in this project.



World Hydrogen Energy Conference

The world's hydrogen and fuel cell community in Zaragoza

The [World Hydrogen Energy Conference](#), acronym in English WHEC 2016, was held in Zaragoza last June 13 to 17. This bi-annual event has become the greatest forum for researchers, enterprises and policy makers involved in what is considered the energy of the future, hydrogen and fuel cells. This edition was

attended by near 1000 worldwide delegates as well as speakers of the highest level. In its framework, [GREENZO project](#) presented a work titled "Sustainable production of hydrogen by steam reforming of bio-ethanol, using Zinc Oxide (ZnO) enhanced with cobalt (Co), as a result of the European project LIFE13 ENV/ES/000173 GREENZO.

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[6th International Conference on Fuel Cells & Hydrogen Technologies](#)

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