

## *Preface*



# **5<sup>th</sup> International Conference on Green Chemistry and Sustainable Engineering**



**SciKnowledge<sup>TM</sup>**  
European Education Scientific Conferences

## GreenCHEM-22 Welcoming Message

Dear Colleagues,

The **5th International Conference on Green Chemistry and Sustainable Engineering (GreenChem-22)** is organized by academics and researchers belonging to different scientific areas of the University Complutense of Madrid, University Carlos III of Madrid, University of Extremadura, University of las Palmas de Gran Canaria, Universidade de Trás-os-Montes e Alto Douro, University of Granada, University of Santiago de Compostela, and University of Jaen, with the technical support of **Sciknowledge European Conferences**.

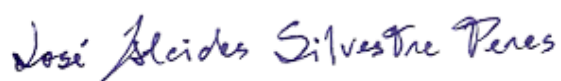
This event aims to create an international forum for academics, researchers and scientists worldwide to discuss worldwide results and proposals regarding the soundest issues related to **Green Chemistry and Sustainable Engineering**.

This event will include the participation of renowned keynote speakers, oral presentations, poster sessions, technical conferences related to the topics dealt with in the Scientific Program, and an attractive social and cultural program.

The papers will be published in the Abstracts E-book of the Conference. Those communications with enough quality can be further considered for publication in International Conference Journals. At the authors' choice, those works unsuitable for publication in any congress journals will be published in the Extended Abstracts E-book.

To finish, I hope that all of you will enjoy the Conference, and I wish our visitors from abroad will have an enjoyable stay in Rome.

Thank you



Prof. José Alcides Peres  
Chemistry Department  
University of Trás-os-Montes e Alto Douro,  
Portugal, UE

# ORGANIZING COMMITTEE GREENCHEM-22

## Chairman

Prof. José Alcides Peres PhD  
Chemistry Department  
University of Trás-os-Montes e Alto Douro, Vila Real, Portugal

## Co-Chairman

Prof. Avelino Nuñez-Delgado PhD  
Department of Edafology and Agricultural Chemistry  
University of Santiago de Compostela, Spain

Prof. Paulo Aloísio Edmond Reís da Silva Augusto PhD  
Department of Chemical Engineering  
University of Salamanca, Spain

## Members

Prof. Raviraj M. Kulkarni, PhD  
Department of Chemistry  
Gogte Institute of Technology, Udyambag, Belgaum, Karnataka

Prof. Silvia Álvarez Torrellas PhD  
Chemical Engineering Department  
University Complutense of Madrid, UCM

Prof. Vahid Jabbari PhD  
Chemistry Department  
The University of Texas at El Paso

Prof. Elisenda Pulido Melián PhD  
Chemical Department  
University of Las Palmas de Gran Canaria

Prof. Juan García Rodríguez PhD  
Chemical Engineering Department  
University Complutense of Madrid, Spain

Prof. Marco Race PhD  
Department of Civil and Mechanical Engineering  
University of Cassino and Southern Lazio, Italy

Prof. Yaoyu Zhou PhD  
College of Resources and Environment  
Hunan Agricultural University, China.

Prof. Joaquín R. Domínguez Vargas PhD  
Department of Chemical Engineering and Chemical Physics  
University of Extremadura – UEx, Spain