


2023

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PROCEEDINGS

WASTES

SOLUTIONS
TREATMENTS
OPPORTUNITIES

6th International Conference **WASTES** SOLUTIONS TREATMENTS OPPORTUNITIES

6th International
Conference

september 6-8 | 2023
University of Coimbra



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WASTES: Solutions, Treatments and Opportunities***

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FROM THE EDITOR

Dear colleagues,

It is with great pleasure that we bring to you the **Book of Proceedings** developed within the context of the 6th International Conference Wastes: Solutions, Treatments and Opportunities.

The Wastes conferences, which takes place biennially, are a platform for the scientists and industry representatives from the waste management and recycling sectors from around the world, to share their experiences and knowledge with all in attendance. Discussions regarding the balance between economic, environmental and social outcomes are carefully addressed. The development of innovative techniques, tools and strategies on how wastes can be transformed into good ideas, improving both the overall environmental performance and the understanding of the industry impact on the environment, as well as the options analysis for its improvement are key objectives of this event.

With this editorial work we continue the publication of the scientific papers developed around the oral presentations and posters delivered at this conference, taking the scope of this event beyond the limits of its physical occurrence.

This issue contains 112 short papers presented at the 2023 edition. They consist of improved and developed scientific papers, constituting an additional outcome to the conference. This edition of the conference offered two distinct options of paper submission: Full paper and Short paper. The accepted short papers are included in this Book of Proceedings (with ISSN), while the full papers were included in a book published by CRC Press – Taylor & Francis Group, that will be proposed to Scopus and Web of Science – ISI for indexing.

The short papers are divided in the following themes: Management of waste streams, Environmental, economic and social aspects in waste management, Logistics, policies, regulatory constraints and markets in waste management, Waste-to-energy technologies, Life cycle assessment and carbon footprint, Biological treatment techniques, Waste treatment and valorization technologies, Circular economy and industrial symbioses, Smart technologies and digital tools in waste management, Recycling of wastes and resources recovery, Wastes refineries, Food waste management and bioeconomy, Plastic waste impacts, management strategies and solutions and Wastes as critical raw materials resources.

We hope you benefit from the investigation papers presented and that they encourage you to bring your work to the next edition, in Funchal, Madeira!



Chair of the Organizing Committee

Cândida Vilarinho

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