

Proceedings of the Third International Symposium  
on Materials and Sustainable Development



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Mohammed Saidi  
Editors

# Proceedings of the Third International Symposium on Materials and Sustainable Development

 Springer

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# Preface

The healthy environment, the key of the vaulted against pollution, depends mainly on the manufacture processes of the materials, their quality, and durability. Indeed, the interest granted to these by the previous editions was an undeniable factor which corroborated our strategy aimed at the continuous improvement of elaborated products whose properties are, above all, functions of their structure and their chemical composition. This is confirmed by the large number of papers that will be on display. This symposium, the third of its kind, organized by the Materials, Processes, and Environment Research Unit, in collaboration with others University, will certainly contribute to reinforcing the links and cooperation between our institutions. During this scientific event which has deal with the following topics:

- Theme 1: Advanced materials and nanotechnology
- Theme 2: Chemistry of building materials and materials
- Theme 3: Waste management, recycling, and environment
- Theme 4: Materials processing technology

The scientific committee and the organizing committee have made every effort to ensure that the scientific aspect is beneficial (respect for the duration of presentation, explicit answers to the questions asked, clarification of unresolved points, by the moderators and specialists present, continuation discussions during coffee breaks, in-depth discussions on the work presented in the form of posters and oral presentations, etc.) for all participants. Thus, the audience of this meeting will widen which was be a potential catalyst for the holding of the next edition.

AQ1

AQ2

AQ3

## **Objectives of the Third International Symposium on Materials and Sustainable Development**

Given the quick development of materials, and therefore the interest they generate, the research unit: Materials, Processes, and Environment of University M'hamed Bougara of Boumerdes is working to make this symposium a tradition that will gather every two years, researchers from different universities and industrialists, in order to know, among other things, studies carried out on materials, to foster links between researchers, to strengthen scientific exchanges between them and to create partnerships that will consolidate relations between laboratories.

Moreover, Ph.D. students will not fail to find, in this colloquium, one of the privileged spaces to collect information that will help them to carry out their thesis. Finally, contacts will be made between academics and industry to eventually lead to mutually profitable agreements.

Benmounah Abdelbaki  
Brahim Safi  
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