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Editorial

Special issue on green and energy efficient processing

The Symposium Green and Energy Efficient Processing was held in June 17–21, 2018 within the 7th International Congress on Ceramics at the pleasant Iguazu Falls, Brazil. The ICC7 was hosted by the Brazilian Ceramic Society on behalf of the International Ceramic Federation (ICF). With the main message "*Ceramizing the Future for a Sustainable Society*" the Congress gathered many researchers, professors and scholars, and industry agents involved in ceramic research and production to share their recent works and future projections of the sector.

The symposium on Green and Energy Efficient Processing encouraged the presentation of top quality contributions dealing with novel aspects concerning the recent advances in ceramic processing with clean and energy efficient methods directed towards a future with environmentally responsible practices, giving special attention to the aspects of sustainability, environmental and health friendly processes, and reduced costs. In that context, the use of new eco-friendly synthesis routes and additives, the recycling of wastes, the development of innovative shaping technologies with clean and non-contaminant practices, and the reduction of manufacturing costs and energy consumption, were encouraged.

The Symposium, chaired by Sonia R. H. Mello-Castanho and Rodrigo Moreno, was held along two days with about 50 participants and a varied set of contributions of 13 countries, including 12 invited lectures, 8 oral presentations and 25 posters. This special issue reflects the spirit of the meeting and collects a good representation of the papers presented during the symposium, which includes most of the invited contributions. The main topics covered the use of novel additives for aqueous colloidal processing, the incorporation of residues and waste and eco-materials for the fabrication of components and membranes, the aqueous processing of ceramic and ceramic-metal laminates and composites, advances in additive manufacturing, the functionalization of bioglass scaffolds, the preparation of photocatalytic films, and modelling.

On behalf of the Organizing Committee, we gratefully acknowledge all those who made possible the success of this symposium with their attendance, their enthusiasm and the high quality of the scientific works presented. We wish to thank the ABCeram (Brazil) and Metallum Events, as organizers of the event, as well as the editorial team at Elsevier and Prof. Richard Todd (Senior editor of the Journal of the European Ceramic Society) for all the support and help along the organization of the symposium and the publication of this Special Issue. Finally, we thank the authors and reviewers of the manuscripts.

"Ceramizing the Future for a Sustainable Society"
June 17 - 21, 2018 / Foz do Iguaçú - PR - Brazil

ICC7
7th International Congress on Ceramics
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