

Special Issue

Ceramics: Latest Advances and Prospects

Message from the Guest Editors

This Special Issue will deal with current production technology issues, as well as the new ceramic processes and the developments carried out in the face of the valorization of tiles and the search for new functionalities. In this sense, examples of these new functionalities will be proposed, such as bactericidal ceramic tiles; ceramic tiles for "air cleaning"; phosphorescent tiles; and tiles that provide warmth, such as so-called thermal tiles, among other functionalities. A special chapter will be dedicated to photovoltaic tiles, which possess a capacity for architectural integration (BIPV). It will also deal with other industrial sectors related to the productive industrial sector, such as ceramic paste preparation industries; ceramic rheological additives industries; and the industries of frits, enamels, and ceramic pigments, which are all constituents of the so-called ceramic cluster. **Keywords:**

- ceramic tiles industry
- ceramic production technology
- ceramic glazes
- frits
- ceramic pigments
- Industry 4.0
- circular economy
- new functionalities in ceramic tiles
- photovoltaic tiles

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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