Special Issue

The Applications of Alkali-Activated Materials in Construction

Message from the Guest Editors

For the application of new alkaline activation materials as construction materials, there are different aspects that require further research and evaluation at a scientific–technological level. On the one hand, there is today a multitude of possible aluminosilicate geopolymeric precursors, many of which require a global and multidisciplinary review to evaluate their real viability of use. Likewise, the use of alkaline activators from residual materials opens up new formulation opportunities with greater economic viability for obtaining alkaline activated building materials. The optimization of all these aspects from an environmental point of view also requires the performance of life cycle and leaching analyses that, to date, offer very dispersed information on the real environmental improvements offered by alkaline activation materials against traditional building materials. The compilation of research works in these areas is therefore essential for future developments in standardization and good practices that facilitate an industrial and commercial implementation of these materials.

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