



an Open Access Journal by MDPI

Cement Materials and Binding Materials for Construction: Preparation, Characterization and Applications

Guest Editors:

Prof. Dr. Maurizio Bellotto

1. Politecnico di Milano, Piazza Leonardo da Vinci, 32, 20133 Milan, Italy

2. Interdepartmental Center for the Study of Hydraulic Binders (CIRCe), University of Padova, Via VIII Febbraio, 2, 35122 Padova PD, Italy

Dr. Teresa LIBERTO

Department of Civil Engineering, Vienna University of Technology, 1040 Vienna, Austria

Deadline for manuscript submissions:

closed (31 January 2022)

Message from the Guest Editors

Dear Colleagues,

Widely different binders have been used in building construction since antiquity. Today, Portland cement seems to be the sole binder used.

Since the second half of the last century, investigations on Portland cement, focusing on production first and on its hydration mechanism later, have improved the quality of its fresh and solid properties, leading to the development of self-consolidating, self-curing, ductile, strain-hardening, and high-performance concrete.

The aim of this Special Issue is to gather recent advances on the production and use of binders, not limited to Portland cement but also open to more sustainable hydraulic binders such as geopolymers, alkali-activated binders, recycled aggregates, and raw earth/clays. In this context, the analytical techniques to investigate the materials at all different organization levels, from nano to macro, and the assessment of their macro mechanical characteristics in the fresh and hardened state represent key topics.

Link:

appls-ci.com/special_issues/Cement_Binding_Materials



mdpi.com/si/89960

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)