



materials



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Development and Characterization of Novel Cement Materials

Guest Editor:

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Deadline for manuscript submissions:

closed (10 December 2023)

Message from the Guest Editor

This Special Issue aims to publish papers including the field of development and properties of novel cement and concrete through structure characterization. Means or enhanced insights into the behavior characterization of novel cementitious materials, e.g., low carbon cement, alkali-activated materials, geopolymer, and magnesium phosphate cement behavior, should be obtained through the experimental investigation or already published data. The scope includes:

- Preparation, mix design, and application of novel cement concrete;
- Rheology of fresh novel cementitious materials;
- Mechanical properties of hardened materials;
- Hydration characterization and analysis of novel cement concrete;
- Long-term properties;
- Microstructure development and modeling.

Novel cement is an important alternative that increases the flexibility and application of Portland cement. Scientists and engineers should be aware that the materials used to provide additional capabilities of novel cement concrete are not the same as Portland cement.



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Special Issue



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Message from the Editor-in-Chief

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