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The Development of Sustainable Concrete with Solid Waste and By-Products

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Message from the Guest Editors

Dear Colleagues,

In recent years, due to rising concerns regarding the greenhouse emissions produced by the building material production industry, there has been significant interest in the development of waste-based building materials. The increasing scarcity of raw materials necessitates the maximum utilization of various wastes to fabricate building materials. The growing demand for sustainable construction practices has led to the exploration of eco-friendly materials in building material production. This Special Issue, entitled “The development of Sustainable Concrete with Solid Waste and By-Products”, focuses on incorporating solid waste and industrial by-products as supplementary cementitious materials (SCMs) in order to reduce the environmental footprint of concrete production. This approach not only tackles resource depletion and environmental degradation, but also seeks to enhance the durability and performance of concrete structures. This Special Issue highlights cutting-edge research and innovations in the optimization of waste pretreatment, incorporating innovative additives into concrete formulations, and designing eco-efficient concrete mixtures.





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Message from the Editor-in-Chief

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