



an Open Access Journal by MDPI

Advanced Eco-Efficient Concrete

Guest Editors:

Dr. Alexander S. Brand

Department of Civil and Environmental Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Dr. Amir Behravan

Department of Civil and Environmental Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Dr. Sivakumar Ramanathan

School of Civil and Construction Engineering, Oregon State University, Corvallis, OR, USA

Deadline for manuscript submissions: closed (25 July 2022)

Message from the Guest Editors

Dear Colleagues,

With portland cement production accounting for 7% of global anthropogenic CO₂ and with cement production expected to increase by upwards of 20% in the coming decades, it is evident that the carbon footprint of concrete and other cementitious composites needs to minimized. The objective of this Special Issue is to present novel contributions to the production of sustainable structures with eco-efficient concrete, which includes, but is not limited to: recycled and by-product aggregates, recycled materials, recycled fibers, alternative supplementary cementitious materials, life cycle analysis, novel and alterative cementitious systems, service life assessment and durability, carbon capture and utilization strategies, and strategies for approaching green civil infrastructure.

Dr. Alexander S. Brand Dr. Amir Behravan Dr. Sivakumar Ramanathan *Guest Editors*



Specialsue





an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (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