



## Applications of High-Performance Concrete in Construction

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### Message from the Guest Editor

In the dynamic realm of construction materials, High-Performance Concrete (HPC) has emerged as a versatile, influential player, including High-Strength and Light-Weight variants for various structural applications. Renowned for their robustness, these concretes uphold Structural Integrity.

Sustainability has fueled HPC's evolution, aligning it with Green Construction Materials. Fiber-Reinforced Concrete bolsters resilience, while Self-Consolidating Concrete (SCC) streamlines construction for efficiency.

Integrating HPC with 3D printing catalyzes material innovation and construction methods, reshaping conventions into eco-friendlier practices. Growing literature on technical aspects, including printing parameters, rheology, testing, and mechanical properties, ensures structural safety.

Applied Sciences presents a special issue delving into HPC's multifaceted role in construction. We invite insights from researchers, engineers, and practitioners, fostering a sustainable, resilient, and innovative built environment.





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## Message from the Editor-in-Chief

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