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Advances in Recycled Aggregate Concrete

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Message from the Guest Editors

The construction industry produces about 1183 million metric tons of construction and demolition wastes each year worldwide, in which concrete waste takes the most considerable proportion. Recycling this waste and using it in new construction has been regarded as a viable solution for the sake of sustainable development.

However, as a substitute resource for virgin raw materials, deep knowledge of how the use of recycled aggregates influences the final concrete properties is still very limited, particularly considering that the recycled aggregates have wide uncertainty and variability in quality. How do their inherited faults in microstructure and purity influence the hydration process and bond with paste matrix? How do advanced improving technologies work in scientific mechanisms, etc.? To promote communication of the knowledge and research in material science on the topic, we have planned this Special Issue and are inviting worldwide researchers to contribute their original research work, case investigations, reviews of research development, and advances in the research area.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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