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Turn industrial wastes into low-carbon concrete

Dear Readers,

Welcome to the 7th issue of 2026, which gathers global cement and concrete industry updates, innovation, and practices in academic and engineering communities.

Spotlight section tracks the latest business dynamics of leading producers, with the 1H 2026 earnings season taking centre stage: Hoffmann Green Cement reported strong records for the first half of 2026, Cemex achieved outstanding results in 2Q 2026, Heidelberg Materials maintained a strong growth trajectory in the quarter, Molins delivered strong results in the first half of the year, and Holcim posted a double-digit recurring EBIT growth in 1H 2026. Alongside these eye-catching milestones, capacity expansion and technology deployment continue apace: Votorantim Cimentos will expand its Xambioá plant in Tocantins, Gebr. Pfeiffer's MVR vertical roller mill makes its debut in Libya, and alcemy targets autonomous cement and concrete production through AI-driven process control.

Engineering feature presents the production and engineering application of high-volume ground limestone powder concrete, demonstrating how widely available mineral powders can support low-clinker construction practice. Market Trends section adds two strategic perspectives: consolidation and regional power in the global cement market, and assessment of China's talent landscape and knowledge capacity in advanced cement-based materials for the low-carbon transition.

This issue publishes several original research. One-part geopolymers incorporate Yellow River silt and locally produced PVA fibre, as well as the drying-free wet marine dredged sediment. Several experimental articles dig into practical material performances: the low-carbon recycling of low-thermal modified waste mould gypsum, the performance and mechanism of aluminium sulphate in calcium hydroxide modified macro defect-free gypsum, the effect of cement content on the performance of static cracking agents, the application of low-sodium silicate grout for soil liquefaction mitigation, the preparation and engineering application of super-retarding moist-mixed shotcrete for mining, and the feasibility of high slag utilisation in cementitious materials.

I hope these articles bring you valuable information and potential contacts.





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Editor-in-chief

EDITORIAL