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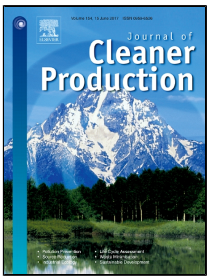

Numerical Optimization of Self-Compacting Mortar Mixture Containing Spent Equilibrium Catalyst From Oil Refinery

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Highlights:

- Spent equilibrium catalyst (ECat) as an addition in self-compacting concrete (SCC).
- Numerical mixture design of SCC following a factorial design statistical approach.
- Identification of significant mixture parameters in ECat blended SCC properties.
- Increase of compressive strength and resistivity for mortars incorporating ECat.
- ECat should be combined with other finer additions to obtain a viscosity-type SCC.

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