

Hasta el cemento tiene su ciencia ^[1]

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El hormigón es una mezcla de cemento (un polvo gris), agua y otros aditivos. (Suministrada)

Video: <https://www.youtube.com/watch?v=OWQuZvggGoo&feature=youtu.be> ^[4]

Optimization of pervious concrete containing fly ash and iron oxide nanoparticles and its application for phosphorus removal.

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Abstract: Response surface methodology by a two-level central composite design optimized the ratios of water-to-binder (W/B), fly ash-to-binder (FA/B) and iron oxide nanoparticles-to-binder (ENP/B) for Portland cement pervious concrete (PCPC). Compressive strength, permeability, void content and density ranged 2.5–13.5 MPa, 5.3–17.4 mm/s, 12–22% and 2120–2360 kg/m³, respectively. W/B and FA/B had significant impacts on all the PCPC properties, whereas ENP/B produced significance only for the compressive strength. PCPC was optimized with 0.35 W/B, 0.15 FA/B and 0.05 ENP/B. The optimized PCPC exhibited enhanced phosphorus removal with the first-order removal constant at 0.031 h⁻¹ and the Freundlich isotherm constant at 2.48 mg l⁻¹ / n kg^{1/n} L^{1/n}. [ABSTRACT FROM AUTHOR]

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Content Categories: • Engineering, math, and computer science [5]

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