
Plan Overview

A Data Management Plan created using DMPonline

Title: Development of low carbon 3D printed concretes

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Project abstract:

This project focuses on the development of sustainable 3D printed concretes with low carbon emissions by optimizing the use of supplementary cementitious materials (SCMs), nano-clays, and alternative binders. The research explores the impact of attapulgite, bentonite, and sepiolite clay in achieving printable, low-carbon concrete with improved rheological properties, strength, and buildability. This study aims to reduce Portland cement consumption while enhancing the fresh and hardened properties of 3D printed concrete, thereby contributing to greener construction practices.

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