

Treatment and Processing of Low-Cost Graphite Nanomaterials Towards Enhancement of the Concrete-Based Infrastructure

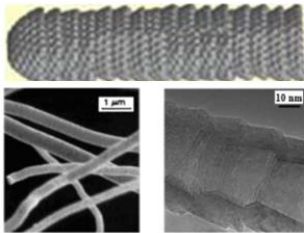


NSF SBIR Award
IIP-1142455

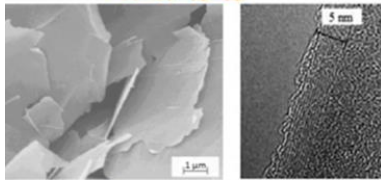
J. Lu, A. Balachandra, A. Peyvandi, P. Soroushian
Metna Co.

Modification of Nanomaterials for Effective Interaction with Cement Hydrates

Graphite Nanomaterials

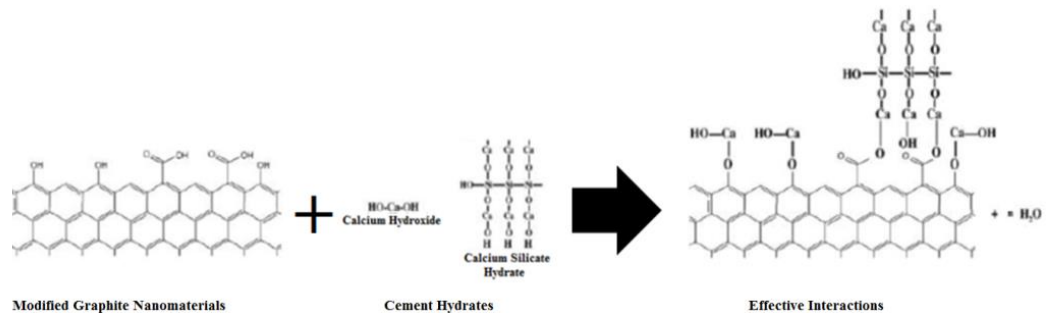
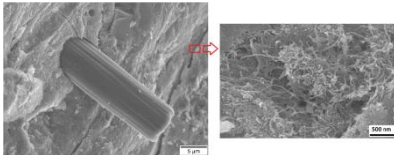


Carbon Nanofiber

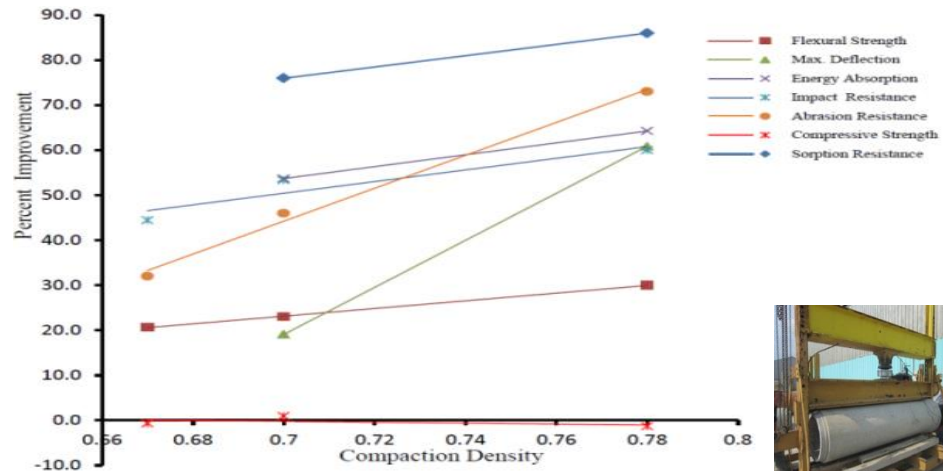


Graphite Nanoplatelet

Multi-Scale Reinforcement



% Improvements in Diverse Material Properties Vs. Concrete Packing Density



Industrial-scale production & evaluation of precast/prestressed concrete products validated scalability & economic viability.