ENVIRONMENTAL AND WASTE MANAGEMENT: ADVANCEMENTS THROUGH THE ENVIRONMENTAL MANAGEMENT SCIENCE PROGRAM

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PREPARATION OF CLAY BRICK USING COAL WASTE

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A great deal of coal waste produced during the development of a mine was accumulated around the mine, which caused many problems such as traffic, acid mine drainage and damage of forest and scenery. Carbon in the coal waste helps calcination of the brick even at low temperature. Considering the reuse of natural waste and energy saving, clay brick was prepared using coal waste under various conditions, including particle size, amount of coal waste mixed, calcination temperature and pressing pressure. The specimens were characterized by XRD, SEM and TG-DTA and interpreted in terms of water absorption and compressive strength.