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Statistical comparison of leaching behavior of incineration bottom ash using seawater and deionized water: significant findings based on several leaching methods

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Highlights

- Metal leaching statistically correlated to the leachant types, i.e., seawater or DI
- Metals with higher leached amounts with DI were subject to more effects by seawater
- Seawater tended to enhance most metal leaching in column leaching test
- Scenario-based leaching tests shall be established for IBA application

Abstract

Bottom ashes generated from municipal solid waste incineration have gained increasing popularity as alternative construction materials, however, they contains elevated heavy metals posing a challenge for its free usage. Different leaching methods are developed to quantify leaching potential of incineration bottom ashes meanwhile guide its environmentally friendly

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