

The nutrient profile of fly ash underscores its potential as a valuable amendment in agricultural practices [3]. The proposed innovation involves the utilization of fly ash and bottom ash in the ...

The maximum allowable addition of washed fly ash in cement kiln co-processing was determined based on heavy metal pollution control requirements. The aim of this study was to verify the ...

In parallel, the high carbon footprint of Portland cement has encouraged interest in supplementary cementitious materials (SCMs) like Ground Granulated Blast Furnace Slag (GGBS), Fly Ash ...

A stunning eruption has rocked Indonesia's Flores Island as Mount Lewotobi Laki-Laki spews a 63,000-foot-high toxic ash cloud into the sky. Captured in dramatic footage, this powerful blast forced ...

Nagpur (Maharashtra), July 17, 2025: Dr. Lal Singh transformed 1,500 hectares of toxic fly ash land at Koradi power station into a lush bamboo forest by planting over 5 lakh trees. His eco ...

Basalt fiber reinforced epoxy composites with fly ash were manufactured and their properties were evaluated. Epoxy resin with fly ash as an additive was impregnated into basalt fibers by hand ...

The poisoning of surface water sources by both organic and inorganic pollutants is a major concern in rapidly industrializing countries. Therefore, it is imperative to remove these potentially harmful contaminants from the aquatic environment ...

(4) Can plant toxicity test results for fine fly ash be reconciled with Monte Carlo-corrected risk assessments of Cr/Pb, and what insights can meta-analyses provide? To address these ...

Coal ash, which is a significant source of Cd, Cr, As, and Pb, has been linked to groundwater contamination near disposal sites (Verma et al., 2016). Smaller particle sizes in fly ash, with ...

Tang et al. [20] showed that fly-ash-based geopolymers cut CO₂ emissions by 32 % relative to conventional concrete, while Yuan et al. [21] reported 4-6 % lower CO₂ and 8-19 ...

In a 2024 study published in the journal *Science of The Total Environment*, researchers found fly-ash pollution in the Illa Grossa bay. Fly ash is a toxic compound that comes from burning coal.

It is a toxic mix of carcinogens, neurotoxins, and other hazardous pollutants. Coal ash includes fly ash, a fine powdery substance composed mainly of silica, and bottom ash, a coarse angular ...

Fly ash toxicity

The cement-fly ash composite expansive stable grout was prepared to deal with the problems of poor stability and volume shrinkage of ordinary cement grout, and the effects of fly ash ratio ...

The increasing global demand for cost-effective and environmentally sustainable water treatment technologies has catalysed research into the utilization of industrial by-products such as fly ...

The co-disposal of municipal solid waste incineration fly ash (MSWI-FA) in cement kilns is an effective method for managing incineration by-products in China. However, the presence of ...

Furthermore, the precursor of geopolymer usually use silicoaluminates-rich industrial solid waste (such as fly ash and slag). In comparison to traditional Portland cement concretes, fly ash- or ...

It has also sought clarification on how mixing of C& D waste affects treatment processes and whether fly ash is tested for toxicity before reuse. The case is scheduled for next hearing on ...

The compressive strength and leaching toxicity of treated fly ash serve as crucial indicators for assessing the efficacy of solidification/stabilization technology and determining the suitability of ...

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