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Thermochemical Formation of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans on the Fly Ash Matrix from Metal Smelting Sources

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## Highlights

- PCDD/F formation on different metal smelting fly ash is compared for the first time
- Highly chlorinated congeners tended to form at higher temperatures on Al fly ash
- Contents of TOC, metal and chlorine were important to PCDD/F formation
- Activation energies of congener formation explained PCDD/F profiles

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