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# Current State of Coal Fly Ash Utilization: Characterization and Application

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# **Message from the Guest Editors**

Coal fly ash (CFA) is the main solid waste from coal-fired power plants. The world's annual growth of this type of waste is about 700-800 million tons. CFA contains oxides of non-ferrous metals (SiO2, Al2O3, Fe2O3, CaO), as well as unburned carbon and rare earth elements. So. CFA can be feedstock in metallurgy, chemical construction industries. The novel science direction is the use of CFA to reduce CO<sub>2</sub> emissions by reacting a part of the carbon dioxide with calcium oxide and obtaining construction materials. An important direction is the zeolite production. This type of materials can be used for the purification of wastewater from heavy metals. It is promising to use CFA for the production of ceramics with high physical properties based on silicon carbide (SiC). We invite you to contribute a paper to this Special Issue. Reviews, communications, or research articles would be very appreciated.













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## **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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