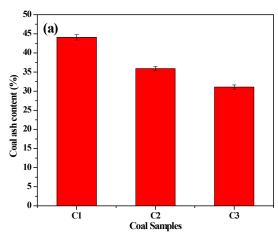
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## **Supplementary Information**



**Fig. 1**Calculated ash contents of three coal samples in terms of combined concentrations of oxides of Na, Mg, Al and Si

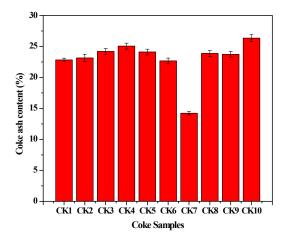


Fig. 2 Determination of ash contents in terms of combined concentrations of oxides of Na, Mg, Al and Si for ten coke samples (CK1 – CK10)