

## Chemical composition of loess sequences in Dalian, Liaoning, China

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We performed an instrumental neutron activation analysis of sediment samples taken from the loess-paleosol sequence (15m thick) at ca.25 cm intervals and also from loess sequence (3.5m thick) at ca.12.5 cm intervals in Dalian, Liaoning, China. We describe (1) the difference of chemical composition among loess horizon, fluvial sandy horizon, and paleosol horizon from the loess-paleosol sequence; (2) the vertical distribution pattern of chemical contents of loess horizons which might describes the historical change of sedimentary environments; (3)the comparison between two sequences and the correlations among elemental abundances.