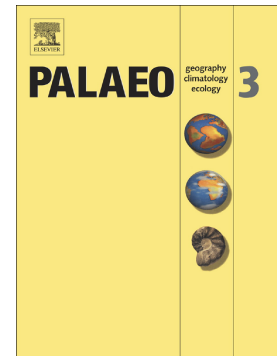


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Hydrogen isotope ratios of leaf wax *n*-alkanes in loess and floodplain deposits in northern China since the Last Glacial Maximum and their paleoclimatic significance

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Abstract

The hydrogen isotopic composition of leaf-wax *n*-alkanes ($\delta D_{n\text{-alkane}}$) is increasingly used as a proxy for estimating δD of past precipitation (δD_p). However, aridity can also affect sedimentary $\delta D_{n\text{-alkane}}$, complicating the interpretation of paleo- $\delta D_{n\text{-alkane}}$ records. In order to evaluate the effects of the complex interactions and balance between precipitation hydrogen isotope composition and aridity on sedimentary $\delta D_{n\text{-alkane}}$ records, we present two $\delta D_{n\text{-alkane}}$ records from the North China Plain and the western Chinese Loess Plateau across a steep east-west climatic gradient in the East Asian Summer Monsoon area since the Last Glacial Maximum. The

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