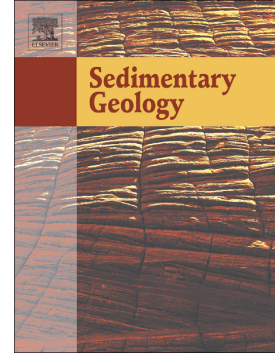


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Transparent heavy minerals and magnetite geochemical composition of the Yangtze River sediments: Implication for provenance evolution of the Yangtze Delta

Wei Yue ^{a,b*}, Bingfu Jin ^c, Baocheng Zhao ^d

^a State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai 200062, China

^b State Key Laboratory of Marine Geology, Tongji University, Shanghai 200092, China

^c School of Resources and Environmental Engineering, Ludong University, Yantai 264025, China

^d Shanghai Institute of Geological Survey, Shanghai 200072, China

* Corresponding author E-mail: yuexiyuan@126.com

ABSTRACT

Heavy mineral and detrital magnetite geochemistry were analyzed to extract sediment provenance indexes from different reaches of the modern Yangtze River which were used to trace sediment source of the Yangtze Delta and to speculate its geomorphology change since the Pliocene. Our results show that diagnostic heavy minerals of the upper Yangtze sediment are characterized by clinopyroxene (12% on

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