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Fig. S1. Photomicrographs and hand specimen photographs of the bauxite-clay ore from Zibo, eastern NCC.

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Fig. S2. Field photos and XRD patterns of bauxite-clay and sandstone samples from Dongdingshan, Zibo illustrating kaolinite in the lower section has a medium- to high-defect structure while kaolinite in the upper section has lower-defect.

图示

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Fig. S3. Field photos and XRD patterns of bauxite-clay and sandstone samples from Yang’gu, Zibo illustrating kaolinite in the lower section has a medium- to high-defect structure while kaolinite in the upper section has lower-defect.

地图

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Fig. S4. Field photos and XRD patterns of bauxite-clay and sandstone samples from Dongchongshan, Zibo illustrating kaolinite in the lower section has a medium- to high-defect structure while kaolinite in the upper section has lower-defect.

徽标, 公司名称

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Fig. S5. Representative CL images of detrital zircon crystals from several bauxite-clay deposits in Zibo. Red and green circles represent the U–Pb and Lu–Hf analytical targets, respectively.

图表, 地图, 散点图

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Fig. S6. Concordia diagrams of the U–Pb ages of detrital zircon crystals.

图示

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Fig. S7

图表, 散点图

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Fig. S8. Th/U versus Nb/Hf and Th/Nb versus Hf/Th for the ca. 290 Ma, 1850Ma, and 2500 Ma zircons from the Zibo bauxite-clay.