

## Accepted Manuscript

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PII: S1367-9120(17)30087-1

DOI: <http://dx.doi.org/10.1016/j.jseaes.2017.02.033>

Reference: JAES 2987

To appear in: *Journal of Asian Earth Sciences*

Received Date: 23 August 2016

Revised Date: 14 February 2017

Accepted Date: 18 February 2017

Please cite this article as: He, P., Wang, X., Song, C., Wang, Q., Deng, L., Zhong, S., Cenozoic evolution of Western Qinling Mt. Range based on thermochronologic and sedimentary records from the Wudu Basin, NE Tibetan Plateau, *Journal of Asian Earth Sciences* (2017), doi: <http://dx.doi.org/10.1016/j.jseaes.2017.02.033>

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**Cenozoic evolution of Western Qinling Mt. Range based on thermochronologic  
and sedimentary records from the Wudu Basin, NE Tibetan Plateau**

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**Abstract:**

The Cenozoic exhumation and evolution of the NE Tibetan Plateau remain a topic of debate, although evidence of exhumation and tectonic evolution is well archived in the sediments of related synorogenic basins and in the bedrock of the provenances of these sediments. In the NE Tibetan Plateau, the intermontane Wudu Basin is situated on the southeastern edge of Western Qinling Mt. Range (hereafter, referred to as “Western Qinling”) and contains a well-preserved Neogene succession. We present a comprehensive investigation of the thermochronology and sedimentology of the Wudu Basin and use the findings to decipher the Cenozoic sequence of the

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