Geological Magazine

Full title: **Late Jurassic to Early Cretaceous magmatism** **in the Xiong'ershan gold district, central China: implications for** **gold** **mineralization and geodynamics**

Short title:**Magmatism and mineralization in the Xiong'ershan**

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**Supplementary Figure Captions**

**Figure S1.** Quartz–Alkali feldspar–Plagioclase feldspar (QAP) diagram of the Wuzhangshan and Huashan monzogranites (after Le Maitre *et al*. 2002). 1a-quartzite, 1b-quartz-rich granitoid, 2-alkali feldspar granite, 3a-syenogranite, 3b-monzogranite, 4-granodiorite, 5-tonalite, 6\*-alkali feldspar Qtz syenite, 6-K-feldspar syenite, 7\*-Qtz syenite, 7-syenite, 8\*-Qtz monzonite, 8-monzonite, 9\*-Qtz monzodiorite, 9-monzodiorite, 10\*-Qtz diorite, 10-diorite.

**Figure S2.** Representative cathodoluminescence (CL) images of the zircon grains from the Wuzhangshan pluton. Circles show the location of LA-ICP-MS U–Pb analyses as well as the LA-MC-ICP–MS Hf analyses.

**Figure S3.** Representative cathodoluminescence (CL) images of the zircon grains from the Huashan pluton. Circles show the location of LA-ICP-MS U–Pb analyses as well as the LA-MC-ICP–MS Hf analyses.

**References**

LE MAITRE, R.W., STRECKEISEN, A., ZANETTIN, B., LE BAS, M, J., BONIN, B., BATEMAN, P., BELLIENI, G., DUDEK, A., EFREMOVA, S., KELLER, J., LAMEYRE, J., SABINE, P. A., SCHMID, R., SORENSEN, H. & WOOLLET, A.R. 2002. *Igneous Rocks: A Classification and Glossary of Terms*. New York: Cambridge University Press,256pp.