时空三极环境大数据平台

**华北北缘及其邻区燕山期中酸性岩年代学及地球化学数据集**

英文标题：Geochronology and geochemistry of Yanshanian intermediate-acid rocks in the northern margin of North China and its adjacent areas

1、摘要

本数据为华北北缘及其邻区燕山期中酸性岩的全岩主微量元素、Sr-Nd-Pb-Mg同位素地球化学数据，锆石U-Pb年龄数据、微区Hf同位素地球化学数据以及硫化物硫同位素数据。全岩主量数据由XRF分析获得，微量元素数据由ICP-MS分析获得，Sr-Nd-Pb-Mg同位素数据由MC-ICP-MS分析获得。锆石U-Pb年龄数据由LA-ICP-MS、SIMS分析获得，Hf同位素数据由MC-ICP-MS分析获得。硫化物硫同位素数据由LA-MC-ICP-MS分析获得。以上数据已发表于高级别SCI期刊（Mg同位素数据尚未发表），数据真实可靠。通过获得的数据，可以查明研究区岩浆作用的时空分布以及岩石化学、同位素组成变化规律，详细分析岩石源区性质及熔融条件、岩浆演化过程，追溯构造-岩浆过程的动力学过程，分析鄂霍茨克洋与太平洋构造域叠合、转换对区内岩浆活动与成矿作用的制约，限定古洋壳俯冲、消亡到相互转换的时限，最终为揭示燕山运动的深部过程与岩浆-成矿作用的关系提供关键制约。

2、关键词

主题关键词：主量元素,微量元素,激光剥蚀等离子质谱,埃达克岩,岩石/矿物,地球化学,锆石Hf同位素,锆石U-Pb定年,花岗岩,Sr-Nd同位素,同位素地球化学  
学科关键词：固体地球  
地点关键词：华北北缘  
时间关键词：燕山期

3、数据细节

1.比例尺：None

2.投影：

3.文件大小：27.0MB

4.数据格式：None

4、空间范围

|  |  |  |
| --- | --- | --- |
| - | 北：53.5 | - |
| 西：114.0 | - | 东：135.0 |
| - | 南：42.0 | - |

5、时间范围2016-06-05 16:00:00+00:00--2021-05-10 03:59:59+00:00

6、引用方式

数据的引用:

葛文春. 华北北缘及其邻区燕山期中酸性岩年代学及地球化学数据集. 时空三极环境大数据平台, 2021.[GE Wenchun. Geochronology and geochemistry of Yanshanian intermediate-acid rocks in the northern margin of North China and its adjacent areas. A Big Earth Data Platform for Three Poles, 2021]

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Dong, Y., Ge, W.C., Ji, Z., Yang, H., Bi, J.H., Wu, H.R., & Hao, Y. (2019). Geochronology and Geochemistry of Early Cretaceous Granitic Plutons in the Xing'an Massif, Great Xing'an Range, NE China: Petrogenesis and Tectonic Implications. Acta Geologica Sinica - English Edition, 93, 1500-1521.  
  
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唐杰, 许文良, 王枫, 葛文春. (2018). 古太平洋板块在欧亚大陆下的俯冲历史: 东北亚陆缘中生代-古近纪岩浆记录. 中国科学:地球科学, 000(005), P.549-583.

7、资助项目信息

燕山期重大地质事件的深部过程与资源效应（2016YFC0600400）

8、数据资源提供者

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