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吉林珲春三叠纪高镁闪长岩的发现及地质意义

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## 摘要:

## 英文摘要:

The high-Mg diorites newly discovered in Hunchu area, Jilin Province, is of importance for discussing the evolution history of the lithosphere in NE China. The zircon LA-ICPMS U-Pb ages for this type of rocks range from 241 to 240Ma, and the contents of  $SiO_2$  and MgO are in the range of  $51.93\% \sim 55.85\%$  and  $3.97\% \sim 10.38\%$ , respectively. They are high in Mg<sup>#</sup> (0.45 ~ 0.70) in the bulk rock composition and belong to sodic calc-alkaline series. They are characterized by nearly flat REE patterns with LREE slightly enriched, and show enrichment of Rb and depletion of Ba, Nb, Ta, P and Ti. The values of  $^{176}$ Hf/ $^{177}$ Hf and  $\varepsilon_{\rm Hf}(t)$  vary in the range of  $0.282672 \sim 0.283085$  and  $0.782672 \sim 0.283085$ , respectively, suggesting they are of mantle origin. The minimum single-stage model age ( $t_{\rm DM1} = 246$ Ma) for this suite of rocks is similar to its emplacing age ( $t = 240 \sim 241$ Ma), suggesting there was a major crustal growth event occurred at  $\sim 240$ Ma in Yanbian a rea. The discrimination diagrams of Sr/Y ( $0.19 \sim 12.48$ )-Y( $0.00 \sim 10.00 \sim 1$ 

关键词: <u>高镁闪长岩</u> 锆石U-Pb年龄 <u>赞岐岩</u> <u>地壳增生</u> <u>小西南盆</u>

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