

Archean Characteristics of Mineral Formation in the Region of Northern Liaoning Province and Southern Jilin Province

SONG Jian-chao, WANG En-de, JIA San-shi, ZHANG Cheng-shuai, YANG Da-yong

(School of Resources & Civil Engineering, Northeastern University, Shenyang 110004, China)

Abstract: The region of northern Liaoning Province and southern Jilin Province is one of the typical area in which the Archean granite-greenstone belts and high-grade metamorphic rock terrains developed well, and produce many mineral resources such as Au, Cu, Zn, Fe. This paper describes the major geological features of granite-greenstone belts and high-grade metamorphic rock terrains, through analysis of three typical deposits related to greenstone: Hongtoushan massive sulfide deposit, Jiapigou lode gold deposit and Broadshigou BIF iron ore deposit, and make a five-point summary: strata-bound ore body, tectonic consistency, deposit concentration, margin mineralization and late deposit inheritance.

Key words: northern Liaoning Province; southern Jilin Province; Archean; greenstone belts; deposit

参考文献的标注方法

参考文献只列出公开发行人书刊、正是的学位论文和地质报告,非公开发行人用脚注表示。标注参考文献一定要内容全面,一般包括下列几项:1)主要责任者(专著作者、论文集主编、学位申报人、报告撰写人、期刊文章作者、析出文章作者等),为了节省版面,一般在人名多于三个时,仅列出前三个,其它用“等”字代替,少于三个时都要列出,换句话说,只有四个以上时才加“等”;2)文献题目;3)文献类型及载体标识,如书用[M],期刊用[J],报告用[R]等;4)其它责任者,如译者等;5)出版项,如果是书,要注明出版地、出版社、出版年;如果是期刊,按照顺序表明刊名、卷、期和文章所在的页码;如是科技报告或学位论文,应指明该文献存放的单位;如是电子文献,要有文献的出处和可获得的网址。

参考文献的注录格式不同期刊有不同的要求,今介绍本刊所用的顺序编码制:按参考内容在文章中出现的先后,在正文中用方括号([1]、[2]……)以右上角的形式标出,文后参考文献列表中编号还用[1]、[2]……标出,和文中出现的先后顺序一致,其格式如下:

专著类: [1] 李四光. 地质力学概论[M]. 北京: 科学出版社, 1990, 20-30.

[2] Broko H, Jones W. Petrology[M]. New York: Pengamon Company, 1978, 20-50.

期刊类: [3] 沈保丰, 翟安民, 苗培森, 等. 华北陆块铁矿床地质特征和资源潜力展望[J]. 地质调查与研究, 29(4): 244-252.

[4] Robert H. Ultramafic rocks[J]. Econ. Geol. 1990, 27(4): 7-14.

译文类: [5] 贝弗里奇 WB. 橄榄石矿物学[M]. 李大山译. 北京: 科学出版社, 1984, 10-40.

[6] 罗伯特 RH. 卡林型金矿[J]. 李大山译. 世界地质, 1984, 3(4): 17-20.

析出文章类(论文集集中的文章):

[7] 黄蕴慧. 国际矿物学研究动向[A]. 程裕淇. 世界地质发展动向[C]. 北京: 地质出版社, 1982, 38-4.

(刘新秒)