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大别山绿辉石晶体结构的再研究-兼与谢窦克等同志商榷 点此下载全文

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摘要:

关键词: 绿辉石 空间群 晶体结构 大别山

RESTUDY ON THE CRYSTAL STRUCTURE OF OMPHACITE FROM THE DABIE MOUNTAINS Download Fu:

Guo Weidong Luo Gufeng Guo Yun

Fund Project:

Abstract:

Xie Douke et al. (1989) determinated the crystal structure of omphacite from the Dabie Mounta this crystal has space group P2/c, and in its structure, there are two kinds of tetrahedral chain w rotation respectively; the four symmetrically unequivalent M-sites are all 6-coordinated octahedra them with higher occupancies. A restudy on the data of this structure was carried out by the authors space group of the omphacite from the Dabie Mountains is P2/n rather than P2/c; and in its structur of tetrahedral chain with 0-rotation, the 03-03-03 chain angle is 170. 02% andM2 and M2(1) sites ar distinguished from 6-one of MI and M1 (1) sites. In addition, the authors deem that, based on the M Al should enter the smallest M1(1) site, while the site occupation between Al and Mg would be compl structure mentioned above is a typical one of ordered omphacite with space group P2/n, rather than for omphacite. The cause responsible for an incorrect space group is that the selection of the unit the standard. The authors, therefore, recalculated the unit cell parameters and atom coordinates ba Xie Douke et al., and furnish the correct ones here. Although some major errors have been found in given by Xie Douke et al., the structural data are valuable.

 ${\tt Keywords:} \underline{{\tt omphacite}} \quad \underline{{\tt space group}} \quad \underline{{\tt crystal \ structure}} \quad \underline{{\tt Dabie \ Mountains}}$

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