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砷酸盐矿物研究及其地质找矿意义 [点此下载全文](#)

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摘要:

砷酸盐矿物是主要产于硫化物矿床氧化带中的一类较为重要的次生矿物, 在自然界中已发现250多种, 但在我国对该类矿物的开展的研究工作较少, 目前仅发现该类矿物39种。

关键词: [砷酸盐矿物](#) [形成条件](#) [找矿](#) [硫化物矿床](#)

A Study of Arsenate Minerals and Its Geological Significance to Ore Prospecting [Download Fulltext](#)

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Fund Project:

Abstract:

The arsenate minerals are the secondary minerals which occur mainly in oxidized zones of sulfide deposits. More than 250 arsenate minerals have been found in nature, but only 39 are found in China. One of the remarkable characteristics of arsenate minerals is that most of them are bright-coloured in green (yellow or red). These minerals commonly show fibrous, acicular, columnar, tabular and cubic crystalline forms, but, being formed in surface conditions, they often occur in botryoidal, kidney and spherulitic aggregates with low degrees of crystallization. These minerals are of complicated chemical compositions, consisting of poly-metallic elements and molecular groups, especially H₂O, OH or halogens. They are closely related to arsenopyrite, As-bearing minerals, chalcopyrite, pyrite, galenite etc. during their formation and development, generally formed in an environment of weakly acid-neutral oxidizational media (pH=3-7) in warm, humid and rain tropic-subtropical zone, and with the carbonatites as wall rocks of the deposit. Arsenate minerals are one of the important products at the latest stage of development of oxidized zones of sulfide deposits. Their paragenetic types are often closely related to the mineral compositions of the primary ores. So, arsenate minerals may be used as one of the indicators for seeking Cu (Sn)-Pb-Zn poly-metallic sulfide deposits in the gossans and oxidized zones of well-developed arsenate minerals.

Keywords: [arsenate mineral](#) [formation condition](#) [significance to ore prospecting](#)

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