

卡林型-类卡林型金矿床勘查与研究回顾及展望

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摘要: 20世纪60年代美国西部发现超大型卡林金矿及1000余千米的成矿带, 引起世界各国重视, 70年代卡林金矿找矿理论传入中国, 经历了找矿实践和初步研究的认识时期, 中国陕西与贵州同时发现卡林型金矿线索; 80年代中后期中国找矿有重大突破, 勘查确定了包含40多例大、中型卡林型-类卡林型金矿床, 分布于环扬子地台的“西北金三角”和“西南金三角”, 典型矿床研究取得较大进展; 90年代找矿勘探又上一新台阶, 除继续发现一批矿床外, 成功勘查出数例特大型该类矿床, 对矿床成因、成矿机理、矿床类型与成矿动力学进行综合性研究; 跨入新世纪仍有金矿床的不断发现, 显示出中国西北、西南地区寻找卡林型-类卡林型金矿床的巨大潜力和良好前景。

关键词: 卡林型-类卡林型金矿床; 找矿与研究; 回顾与展望

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Exploration and study of Carlin and Carlin-like type gold deposits: review and prospect

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Abstract: The superlarge Carlin gold deposit and a metallogenic belt extending over one thousand kilometers were discovered in the western region of the United States in the 1960s. This aroused the attention of various countries in the world. The theory on Carlin type gold prospecting was introduced into China in the 1970s, and after the prospecting practice and preliminary study, the clues leading to finding Carlin type gold deposits were found in Shaanxi and Guizhou, China. A major breakthrough in gold exploration was made in China in the middle and late 1980s, and more than 40 large and intermediate Carlin- and Carlin-like type gold deposits have been delineated in the “northwest gold triangle” and “southwest gold triangle” at the northwest and southwest margins of the Yangtze block. Major advances have been made in the study of typical deposits. Mineral exploration reached a higher level in China in the 1990s. In addition to the discovery of a number of deposits, some superlarge gold deposits of this type were successfully found and an integrated study of the ore deposit genesis, metallogenic mechanism, deposit types and metallogenic dynamics was conducted. In the new century, gold deposits have still been found unceasingly. This shows the great potential and good prospects in looking for Carlin- and Carlin-like type gold deposits in northwestern and southwestern regions of China.

Key words: Carlin- and Carlin-like type gold deposits; exploration and study; review and prospect