

## 多源遥感数据综合分析可地浸砂岩型铀矿成矿地质条件研究 ——以鄂尔多斯盆地杭锦旗研究区为

[点此下载全文](#)

引用本文: 颜蕊,赵福军,张景发,姜文亮.2009.多源遥感数据综合分析可地浸砂岩型铀矿成矿地质条件研究 ——以鄂尔多斯盆地杭锦旗研究区为例[J].地球学报,30(1):51-57.

DOI: 10.3975/cagsb.2009.01.07

摘要点击次数: 1190

全文下载次数: 1466

作者	单位	E-mail
<a href="#">颜蕊</a>	<a href="#">中国地震局工程力学研究所, 黑龙江哈尔滨 150080</a>	yanxiaoxiao_best@163.com
<a href="#">赵福军</a>	<a href="#">黑龙江科技学院, 黑龙江哈尔滨 15008</a>	
<a href="#">张景发</a>	<a href="#">黑龙江科技学院, 黑龙江哈尔滨 15008</a>	
<a href="#">姜文亮</a>	<a href="#">黑龙江科技学院, 黑龙江哈尔滨 15008</a>	

基金项目:核工业北京地质研究院 遥感信息与图像分析技术国家重点实验室基金项目(编号: 51490020405 DZ7001)

中文摘要:可地浸砂岩型铀矿床上方异常信息微弱,直接寻找具有一定的困难,为了准确寻找可地浸砂岩型铀矿,笔者提出借助多源遥感图像所提取的岩性、构造、矿化蚀变等信息提取可地浸砂岩型铀矿源相关信息,并以鄂尔多斯盆地杭锦旗地区为例,依据提取的信息,对其成矿地质构造环境和可地浸砂岩型成矿条件进行了详细分析和阐述,初步预测了研究的铀成矿有利区域。

中文关键词:[多源遥感数据](#) [可地浸砂岩型铀矿](#) [控矿构造](#)

## Analysis of Metallogenic Geological Conditions of In-situ Leaching Uranium Mineralization based on Multisource RS Data: A Case of Study in Hangjin Banner area of Ordos Basin

**Abstract:** Due to the insufficiency of the information concerning the in-situ leachable sandstone type uranium deposit, it is very difficult for the airborne radiation method to detect the uranium deposit. In order to solve this problem, the authors hold that the uranium deposit information can be obtained by extracting lithologic characteristics, structures and alteration information from RS images. With the area between Hangjin Banner and Dongsheng in Ordos basin as an example, the authors analyzed in detail the metallogenic geological and structural environment and the ore-forming conditions of the in-situ leachable sandstone type uranium deposit and, on such a basis, forecast the favorable areas of uranium mineralization.