Geoelectrochemical Methodin In Searching For Concealed Copper Deposits In Jiangsan of Zhejiang

XIANRONG LUO¹, WEN GAO², FEI OUYANG³, MEILAN WEN⁴

- ¹ Guilin University of Technology, Guilin 541004, China 972475619@qq.com
- ² Guilin University of Technology, Guilin 541004, China 373949581@qq.com
- ³ Guilin University of Technology, Guilin 541004, China 54836902@qq.com
- ⁴ Guilin University of Technology, Guilin 541004, China 327271443@qq.com

In order to further understand the effect of using geoelectro-chemical technolgy synthesis on finding concealed copper deposit, find the prospecting technical indicators of hidden copper deposit in Jiangshan of Zhejiang, solve the similar areas' deep prospecting problems, the authors carried out the research of ore prospecting, the geoelectrochemical extraction method first, ionic conductivity, Soil heatrelease mercury (Hg) supplemented .Through the R type cluster analysis and R type factor analysis of Pb, Zn, Ag, Mo , V , W 7 elements in all which extracted by geoelectric, it suggest that Pb , Zn , Mo , Ag are most closely related to main ore-forming element Cu, which could be took as reference indexes on finding similar concealed copper deposit. Electrogeochemical anomalies distribution characteristics indicated fault structure and contact zone are mainly ore-controlling factors at the area. According to geoelectrochemical extraction of single element anomalies plane characteristics . Abnormal distribution of factor scores, synthesize ioni conductivity. Soil heat-release mercury's abnormal spatial distribution characteristics, combined with the geology conditions in study area, we circle 6 ore prospective areas in the research area arrgement.