ICP-MS技术及其应用

陈登云　　安捷伦科技有限公司(中国)

Tye Christopher　安捷伦科技有限公司(中国)

摘　要：ICP—MS技术在分析能力上不仅可以覆盖传统的无机元素分析技术如CIPAES、CFAAS等的工作范围,可进行定性、半定量、定量分析,还可以进行同位素比测定,以及与不同的进样技术(如激光熔蚀)及分离技术(如HPLC,HPCE,GC)联用进行元素的形态、分布特性等的分析。ICP—MS已广泛应用于环境、半导体、医学,生物、冶金、地质科学、石油、核材料分析等领域。本文以实例说明ICP—MS技术在各分析领域的应用优点。

关键词：

ICP-MS and its application

Abstract：ICP-MS can not only fulfill the element analysis job that is done traditionally by ICP-AES or GFAAS, it offers the abilities to do qualification analysis, semi - quantitative analysis and quantitative analysis, it can also do isotooe ratio analysis and can be easily hyphenated to many sample introduction techniques such as laser ablation and to chromatography techniques such as HPLC, HPCE and GC for speciation analysis and field distribution analysis. ICP-MS has been used for environmental, semiconductor,

Key words：