Α

香烟燃烧挥发颗粒物的二次离子质谱分析研究(英文)

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在室内气氛中,吸烟释放出的颗粒物是倍受关心的污染源之一。本工作运用高性能静态二次离子质谱 (TOF SIMS)实验研究了模拟吸烟释放的气溶胶颗粒物中的有机污染物。证实了其中含有氮杂环化合物和多环 芳烃。从而初步表明,二次离子质谱在快速表征室内环境污染物方面具有潜在运用价值。

二次离子质谱 香烟 室内气溶胶 污染检测

分类号 0657.63 TS411

Secondary I on Mass Spectrometry Analysis of Cigarette S b 参考文献 moke Particles

Mei Zhan-Yong, Yu Chun-Hai, Li

Abstract Aerosol particles stemming from tobacco smoke play a key role in indoor air pollution. The chemical characterization of it is essential to understanding the health hazard associated with s moking and indoor air monitoring. The task can be accomplished by secondary ion mass spectro metry (SIMS). Only small sample quantities are necessary, and measurement can be performed within minutes. SIMS was found to be a valuable alternative method to routine analysis techniques that often require more sample quantities and laborious sample preparation. Trace mass specific p atterns were identified, based on specific N-containing het-erocyclic compounds and polycyclic a romatic hydrocarbons (PAHs).

Key words SIMS tobacco indoor aerosols environmental analysis

DOI

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