

A

微流控芯片与生物质谱联用技术的发展与展望

@水雯箐\$复旦大学化学系!上海200433 @苏佳\$复旦大学化学系!上海200433 @黄珍玉\$复旦大学化学系!上海200433 @黄懿\$复旦大学化学系!上海200433 @杨芑原\$复旦大学化学系!上海200433

收稿日期 2002-4-18 修回日期 网络版发布日期:

摘要 本文系统归纳了当前微流控电泳芯片与生物质谱的联用模式。芯片材质涵盖玻璃与高聚物,与接口衔接的电离手段包括电喷雾电离 (ESI)和基质辅助激光解析电离 (MALDI)。此两种技术的联用推动了蛋白质组学等生化研究领域的新技术平台的发展

关键词 [微流控芯片](#) [微芯片](#) [生物质谱](#) [发展和展望](#)

分类号 [0657.63](#) [0859](#)

The Development and Foreground of Microfluidic Device Coupled to Bio-Mass Spectrometry

SHUI Wen-qing, SU Jia, HUANG Z

Abstract Microfluidic devices have been coupled to mass spectrometers (MS) though their dimensions seem unlikely for marriage. Three types of interface designs are concluded for MS with electrospray ionization while some novel means is also reported to couple microchip to MALDI-TOF. The substrate of microfluidic devices cover both glass and plastic. Various integrated protein preparation and preconcentration procedures together with its trend toward multiplexing are also reviewed.

Key words [microfluidic device](#) [micro chip](#) [bio-mass spectrometry](#) [development and foreground](#)

DOI

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(652KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“微流控芯片”的 相关文章](#)
- ▶ [本文作者相关文章](#)