#### 专论与综述

# 光子晶体在分析化学中的应用

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摘要 光子晶体是一新兴的光学材料,正越来越多地应用于分析化学领域,有可能成为新的研究热点。本文着重介绍与分析化学相关的光子晶体研究,特别关注其在色谱、毛细管与芯片电泳等分离分析方面的应用。

关键词 光子晶体 基础理论及概念 制备 光传感器 分离分析 应用

# Photonic crystals for analytical chemistry

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#### Abstract

Photonic crystals, originally created to control the transmission of light, have found their increasing value in the field of analytical chemistry and are probable to become a hot research area soon. This review is hence composed, focusing on their analytical chemistry-oriented applications, including especially their use in chromatography, capillary- and chip-based electrophoresis.

**Key words** photonic crystals basic theory and concept preparation optical sensors separation and analysis applications

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