

图书基本信息

书名：<<光散射技术及其在生化药物分析中的应用>>

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内容概要

散射光产生于光子与微小粒子的相互作用。

当光子作用于任何不均匀介质时，都有散射光产生。

结合激光技术，散射光已在胶体化学、高分子化学等粒子大小表征和分子量测定方面得到了应用，但在吸收和发射（荧光）光谱分析中，散射光却是严重的干扰因素。

1993年，美国学者Pasternack及其合作者发现使用普通荧光光度计获得的光散射信号可应用于生物色素聚集体研究。

在此基础上，我们把普通荧光光度计测定的光散射信号与物质的量联系起来，建立了以散射发光为检测信号的光谱分析法。

近十年来，基于散射光信号的光谱分析法已为分析工作者广泛应用于无机离子、蛋白质和核酸、药物的定量测定中，发展十分迅速，并随着纳米科学的发展取得了新成就。

作为近年来工作的总结，我们选编了本论文集。

内容主要涉及到我攻读博士学位期间完成的工作和我在西南大学所指导的研究生的论文。

在此，感谢我的恩师北京大学童沈阳教授及其课题组的李克安教授、刘锋教授、赵凤林教授和李娜教授等的指导和帮助，感谢我的研究生们近年来为光散射分析所付出的努力，并希望他们在今后的工作中取得优异成绩。

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编辑推荐

光散射现象在自然界中广泛存在，光散射分析化学是近年来一个热点研究领域，已成为分析科学的重要分支。

《光散射技术及其在生化药物分析中的应用》介绍了光散射分析技术的方法、原理及其在生物大分子、有机小分子和药物中的分析应用，《光散射技术及其在生化药物分析中的应用》可作为从事分子光谱分析工作的研究生以及相关领域的科研人员的参考书。

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