



## **Ion Mobility Spectrometry - Mass Spectrometry: Theory and Applications**

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The analytical power of ion mobility spectrometry-mass spectrometry (IMS-MS) instruments is poised to advance this technology from research to analytical laboratories. Exploring these developments at this critical juncture, **Ion Mobility Spectrometry-Mass Spectrometry: Theory and Applications** covers the tools, techniques, and applications involved when molecular size and shape information is combined with the well-known analytical advantages of high-performance mass spectrometry.

### *One of the Most Exciting Developments in Contemporary Mass Spectrometry*

After presenting an overview chapter and the fundamentals, the book focuses on instrumentation and ionization sources. It describes an ion-mobility-capable quadrupole time-of-flight mass spectrometer, the differential mobility analyzer, a cryogenic-temperature ion mobility mass spectrometer, the atmospheric solids analysis probe method, and laserspray ionization. In the final applications-oriented chapters, the contributors explore how homebuilt and commercial instruments using electrospray ionization and matrix-assisted laser desorption/ionization (MALDI) methods are employed to solve biological and synthetic issues.

### *Harness the Power of IMS-MS for Analyzing Complex Substances*

This work helps readers unfamiliar with IMS-MS to understand its fundamental theory and practical applications. It also encourages them to investigate the potential analytical uses of IMS-MS and further explore the power of this method. Numerous color figures are included on a CD-ROM.



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