



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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