



# Mass Spectrometry in Biophysics : Conformation and Dynamics of Biomolecules

*Igor A. Kaltashov, Stephen J. Eyles*

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This title presents the first systematic summary of biophysical mass spectrometry techniques. Recent advances in mass spectrometry (MS) have pushed the frontiers of analytical chemistry into the biophysical laboratory. As a result, the biophysical community's acceptance of MS-based methods, used to study protein higher-order structure and dynamics, has accelerated the expansion of biophysical MS. Despite this growing trend, until now no single text has presented the full array of MS-based experimental techniques and strategies for biophysics. "Mass Spectrometry in Biophysics" expertly closes this gap in the literature. Covering the theoretical background and technical aspects of each method, this much-needed reference offers an unparalleled overview of the current state of biophysical MS. "Mass Spectrometry in Biophysics" begins with a helpful discussion of general biophysical concepts and MS-related techniques. In this title, subsequent chapters address: modern spectrometric hardware; high-order structure and dynamics as probed by various MS-based methods; techniques used to study structure and behavior of non-native protein states that become populated under denaturing conditions; kinetic aspects of protein folding and enzyme catalysis MS-based methods used to extract quantitative information on protein-ligand interactions; relation of MS-based techniques to other experimental tools; and, biomolecular properties in the gas phase. Fully referenced and containing a helpful appendix on the physics of electrospray mass spectrometry, "Mass Spectrometry in Biophysics" also offers a compelling look at the current challenges facing biomolecular MS and the potential applications that will likely shape its future.

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