



Membrane Detector For Time-Of-Flight Mass Spectrometry

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The Invention

The invention provides methods, and related devices and device components, for detecting, sensing and analyzing analytes in samples. In some aspects, the invention provides methods, and related devices and device components, useful in combination with a mass analyzer for the mass spectrometric analysis of analytes derived from biomolecules in biological samples including biological fluids cell extracts, and cell lysates. Methods of some aspects of the invention utilize a thin membrane-based detector as a transducer for converting the kinetic energies of analytes into a field emission signal via excitation of mechanical vibrations in an electromechanically biased membrane by generation of a thermal gradient.

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Mass spectrometry.](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854