

Peer Review

Review of: "A Computer Simulation Study on Ion Optics Aiming at the Realization of Projection-Type Mass Spectrometry Imaging"

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A way to realize the image-projection in mass spectrometry could be interesting. But, as an instrumental paper, the performance needs to be addressed quantitatively in the abstract, i.e., the mass resolution and the position resolution.

It would be better to describe shortly at the very beginning how MALDI-MSI is realized, i.e., by scanning the sample with respect to the laser focus. With the projection method that combines the capability of a microscope and that of an ion time-of-flight spectrometer, the spatial distribution of species on the sample surface can be acquired simultaneously. So, the key advantage of projection mode is delivered explicitly.

Although a lot of figures are presented, it is very difficult to know whether the simulation is successful or not. If the simulation is successful, one should reach: 1, a nice mass resolution; 2, a nice image quality. However, I see none of these.

Declarations

Potential competing interests: No potential competing interests to declare.