

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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The global topic of the article is interesting as it describes a far less explored approach in mass spectrometry imaging (MSI), namely the projection imaging mode. The described simulations have been performed with the widely used charged particle optics simulation software SIMION, which is beneficial for others to perform similar kinds of simulations/calculations in the future. The presented results can definitely serve as guidance for experimentalists working with the Ultraflex Time of Flight (ToF) mass spectrometer, who have the intention to explore projection imaging capabilities during their experimental studies using this specific kind of instrumentation.

A more general comment that I can give here is that the overall layout of the article could be reworked to make it easier for the reader to follow the author's explanations. For example, reworking some figures is desirable, in terms of the font sizes and arrangements used, as well as optimising their placement within the text body. The discussion of the obtained simulation results could be slightly expanded in further detail to better explain the variations of the calculated result parameter values seen within the different figures. A proper conclusion section should definitely be integrated in order to provide even higher quality to the performed work.

More detailed and specific comments and review remarks can be found in the attached PDF file.

Attachments: available at <https://doi.org/10.32388/IVVVTs>

Declarations

Potential competing interests: No potential competing interests to declare.