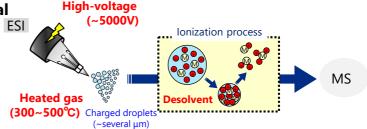
Structural Analysis of Organometallic Complexes by Nano ESI-MS

It is the NanoESI method that allows to analyze dissociative compounds like organometallic complexes. This poster shows the principles and analytical examples of NanoESI-MS.

Principles and strong points in Nano ESI-MS

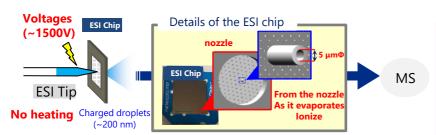
Electrospray ionization (ESI): Conventional

When spraying is performed by applying pressure with a high voltage, charged fine droplets are generated from the tip of the capillary. Ionization of this droplet occurs by desolvation using a heated gas and is introduced into MS.



Nano ESI New!!!!

lonization is performed on the same principle as conventional ESI, but the liquid droplet size is very small because it is sprayed so as to evaporate from an extremely fine nozzle of 5 μ m Φ , and the ionization efficiency is high compared with conventional ESI.



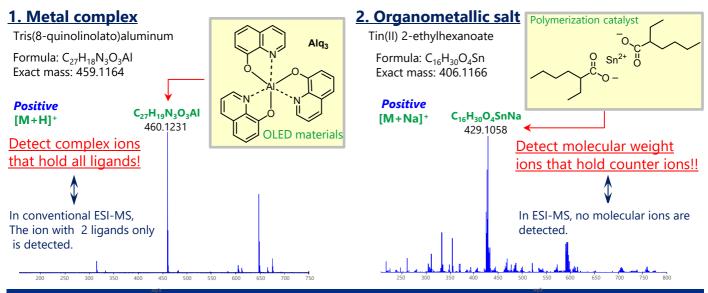
[Strong points]

- Softer ionization compared to ESI can detect unstable metal complexes!
- High-sensitivity

The structure of the trace components can be analyzed!

- There is no carryover.
- ⇒ Even high-concentration metal-containing solutions can be measured!

Nano ESI-MS analytical cases



NanoESI-MS measurements are very useful for structural analysis of unstable organometallic compounds.