icpTOF

Single-Particle ICP-TOFMS

Fast, Simultaneous Multi-Element Detection and Analysis of Single Particles and Single Cells

TOFpilot

SINGLE-PARTICLE ANALYSIS

The icpTOF provides robust single-particle analysis with accurate determination of elemental composition and automatic quantification of mass and particle number concentration.

Features

- All the elements. All the time.
- High sensitivity
- Fast detection speed
- Maximum time resolution
- TOFpilot integrated software with dedicated workflow for single-particle analysis

Applications

- Materials and surface science
- Soil
- Air
- Water
- Toxicology
- Single-cell ionome studies

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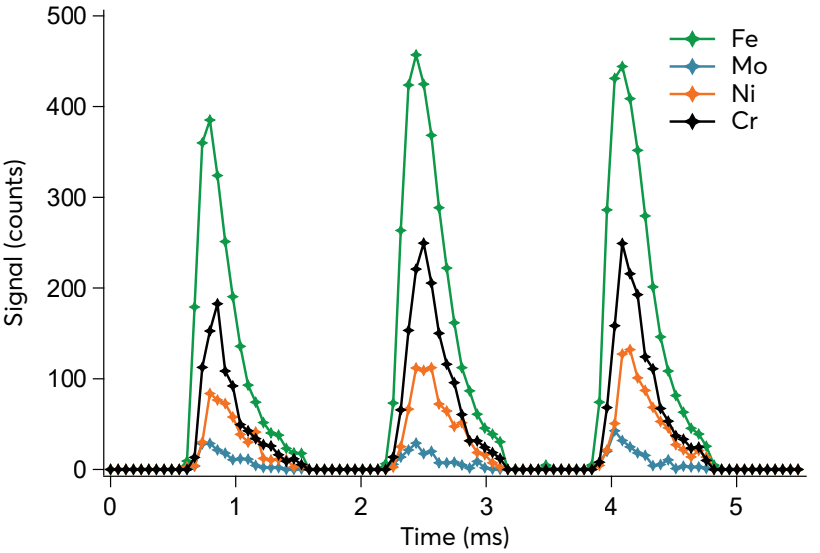
Learn More

*icp*TOF

Nanoparticles in Materials Science

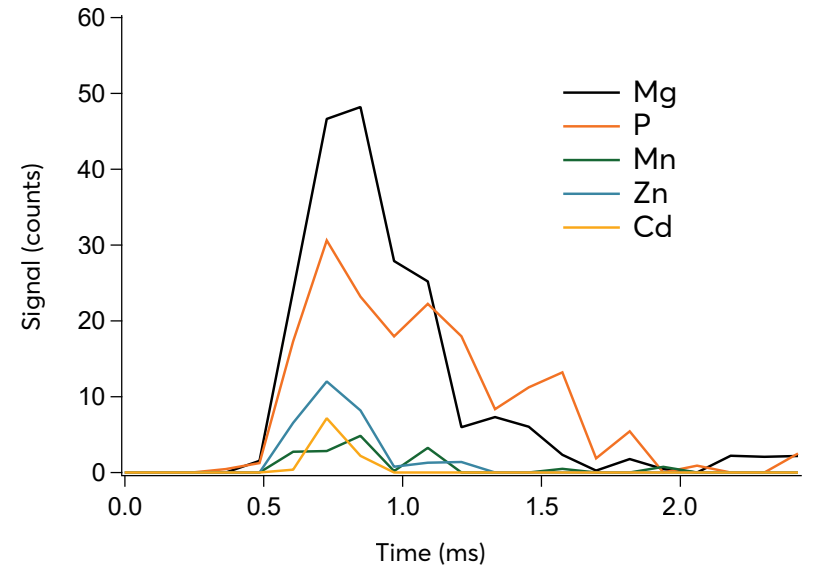
Multi-Element Analysis of Nanoparticles Using the icpTOF



Nanosteel particles composed of Fe, Cr, Ni, Mo were diluted in milliQ water and measured with the icpTOF using H_2 in the Q-cell at 3 ml/min to remove ArO^+ interference on Fe.
Sample courtesy of Dr. R. Peters, Wageningen University & Research, The Netherlands

Single-Cell Analysis in Single-Cell Ionome Study

Fast and Simultaneous Multi-Element Detection for Single-Cell Analysis Using the icpTOF



Example of a recorded signal for a single *Wickerhamomyces anomalus* yeast cell. Data were acquired with an integration time of 120 µs.
Sample courtesy of Dr. Markus Ralser, The Francis Crick Institute, England

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