KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

Dino Metarapi

D04, Department of Analytical Chemistry

Četrtek / Thursday, 4.2.2021 ob / at 13:00 / on WEBEX

https://ki-si.webex.com/ki-si/j.php?MTID=m38d719f5607db24952b7ec308687eb2e
Meeting number (access code): 181 906 7660
Meeting password: februar2021

Nanoparticle Imaging in Biological Samples by Single Particle LA-ICP-MS

The development of single particle–inductively coupled plasma mass spectrometry (SP-ICPMS) has revolutionized the field of nanometallomics. Besides differentiation between dissolved and particulate metal signals, SP-ICPMS can quantify the nanoparticle (NP) number concentration and size. Because SP-ICPMS is limited to characterization of NPs in solution, solid sampling by laser ablation (LA) adds spatial-resolution for localized NP analysis in biomaterials. Silver NP visualization strategies are shown with special emphasis on spatially resolved information associated with the number and spherical-equivalent size of individual NPs. Normally this multimodality information can only be obtained by combining the results of techniques from several complementary platforms.

Vljudno vabljeni / Kindly invited