



Analytical Methods for Nanomaterial Determination

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Message from the Guest Editors

Dear Colleagues,

To date, the requirements for assessing ecological and health risks related to NPs have made clear that the determination of nanoparticles is an emerging field of analytical chemistry. Among the available fractioning, counting and ensemble techniques for sizing and determination of NPs, atomic absorption spectrometry (flame and furnace) and inorganic mass spectrometric systems (e.g., inductively coupled plasma mass spectrometry ICP-MS) are unequivocally at the forefront of noble metals and magnetic NPs analysis. Unequivocally, the matrix complexity, as well as the low concentration or heterogeneity of NMs in the sample, are among the limitations that must be addressed by the scientific community. Thus, the determination of NPs poses a significant challenge to analytical chemists. The scope of this Issue is to describe the state of the art and the continuous efforts in analytical methods for nanomaterial determination.

Keywords

- nanoparticles
- analytical chemistry
- ICP-MS
- AAS
- nanotechnology
- instrumental analysis



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