



Analytical Methods for Nanomaterial Determination

Guest Editors:

Dr. George Tsogkas

Laboratory of Analytical
Chemistry, Department of
Chemistry, Aristotle University of
Thessaloniki, 54124 Thessaloniki,
Greece

Dr. Natalia Manousi

Department of Chemistry,
Aristotle University of
Thessaloniki, 54124 Thessaloniki,
Greece

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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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Dr. George Tsogkas
Dr. Natalia Manousi
Guest Editors

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Prof. Dr. Fernando Albericio

1. School of Chemistry and Physics, University of KwaZulu-Natal, Durban, South Africa
2. Department of Organic Chemistry, University of Barcelona, Barcelona, Spain

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Message from the Editor-in-Chief

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Methods and Protocols Editorial
Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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