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Analysis of Microplastics in Water



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EST*

The analysis of microplastics (MPs) pollution in water is identified as one major problems the world is currently facing. Nowadays, it is estimated that annually almost 4 million tones of plastic go into the seas and oceans. In this respect, Characterization of MPs in waters is still one of the remaining challenges because they can be easily confused with organic or other types of matter. In this short course, techniques and instrumentation for MPs analysis using Raman, FT-IR , microscopies, pyrolysis and thermal desorption GC/MS, LC/MS/MS nd MALDI-TOF-MS will be

discussed. Attention to the greenness of the different analytical methods applied such as the consumption of solvents and energy during MPs analysis will be discussed . Case studies on MP determination in water from Europe, US, China, India and Middle East will be reported. Toxic effects of MPs to aquatic biota will be discussed too. Lastly, the increased MPs pollution after Covid-19 outbreak by the use of masks, gloves and related plastic medical equipment will be highlighted.

Target Audience: Chemists, Biologists and natural scientists in general, Technicians, Analytical chemists involved in Method Development, Regulatory personnel, Ph. D students, Master students and Post-doctoral researchers who want to get started with the problems associated with analysis, fate and toxicity of MPs in water samples.

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