Department of Chemistry



Dimosthenis L. Giokas (Assoc. Prof.)

Equipment and Instrumentation



SHIMADZU FAAS / ETAAS / HGAAS



SHIMADZU HPLC UV/FL/CONDUCTIVITY



JENWAY UV-VIS



Equipment and Instrumentation























Principle: Adsorption and desorption of analytes

Common approach

Use of micro/nano sorbents for extraction / microextraction

Our approach Combined microextraction methods



Journal of Chromatography A 1251, 2012, 33-39 Microchimica Acta 180, 2013, 775-782











 $\mathsf{SBSD}\mu\mathsf{E}$

Journal of Chromatography A 1362, 2014, 25-33 Highlighted Article in Microextraction Tech (http://microextraction.blogspot.com/2014/11/stir-bar-sorptive-dispersive.html)

Talanta 147, 2016 246-252

Analytica Chimica Acta, 926, 2016, 63-71

Journal of Chromatography A, 1564, 2018, 25-33







Cotes in







Microextraction of nanoparticles from environmental samples



Sample preparation - Microextraction Emerging pollutants including nanomaterials 01









Common approach

Adsorbents (micro/nanomaterials) dispersed in aqueous medium

Batch adsorption studies

Adsorption isotherms in distilled water



Our approach

Adsorbents (nanomaterials) immobilized onto solid supports

Real-time adsorption studies

Sampling rate in real samples

















Equipment-free analytical assays / point-of-need analytical devices





Our team

- Prof. Athanasios Vlessidis
- Mrs. Tatiana Choleva (PhD)
- Mrs. Charikleia Tziasiou
- Mrs. Vasiliki Gouma
- Mr. Elias Moisiadis
- Mrs. Despoina Gkogkou















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