



**RED NACIONAL PARA LA INNOVACIÓN  
EN LAS TÉCNICAS DE TRATAMIENTO  
DE MUESTRAS MINIATURIZADAS**

**ESCUELA DE VERANO**  
**12 al 16 de septiembre de 2022**



# AÑOS 2022 y 2023



1. *A high-throughput magnetic-based pipette tip microextraction as an alternative to conventional pipette tip strategies: Determination of testosterone in human saliva as a proof-of-concept.* Grau, J., Benedé, J.L., Chisvert, A., Salvador, A. *Analytica Chimica Acta*, 1221, 2022, 340117. <https://doi.org/10.1016/j.aca.2022.340117>
2. *Development of sol-gel silica-based mixed-mode zwitterionic sorbents for determining drugs in environmental water samples.* Moral, A., Borrull, F., Furton, K.G., Kabir, A., Fontanals, N., Marcé, R.M. *Journal of Chromatography A*, 1676, 2022, 463237. [10.1016/j.chroma.2022.463237](https://doi.org/10.1016/j.chroma.2022.463237)
3. *Nanofibrous online solid-phase extraction coupled with liquid chromatography for the determination of neonicotinoid pesticides in river waters.* Šrámková, I.H., Horstkotte, B., Carbonell-Rozas, L., Erben, J., Chvojka, J., Lara, F.J., García-Campaña, A.M., Šatínský, D. *Membranes*, 12, 2022, 648. [10.3390/membranes12070648](https://doi.org/10.3390/membranes12070648).
4. *Evaluation of 2-hydroxyethyl methacrylate as comonomer in the preparation of water-compatible molecularly imprinted polymers for triazinic herbicides.* Díaz-Álvarez, M., Martín-Esteban, A., Turiel, E. *Journal of Separation Science*, 45, 2022, 2356-2365. [10.1002/jssc.202200129](https://doi.org/10.1002/jssc.202200129)
5. *Sweeping-micellar electrokinetic chromatography with tandem mass spectrometry as an alternative methodology to determine neonicotinoid and boscalid residues in pollen and honeybee samples.* Carbonell-Rozas, L., Horstkotte, B., García-Campaña, A.M., Lara, F.J. *Journal of Chromatography A*, 1672, 2022, 463023. [10.1016/j.chroma.2022.463023](https://doi.org/10.1016/j.chroma.2022.463023)
6. *Low toxicity deep eutectic solvent-based ferrofluid for the determination of UV filters in environmental waters by stir bar dispersive liquid microextraction.* Duque, A., Grau, J., Benedé, J.L., Alonso, R.M., Campanero, M.A., Chisvert, A. *Talanta*, 243, 2022, 123378. [10.1016/j.talanta.2022.123378](https://doi.org/10.1016/j.talanta.2022.123378)
7. *Advanced polymeric solids containing nano- and micro-particles prepared via emulsion-based polymerization approaches. A review.* Fresco-Cala, B., Cárdenas, S. *Analytica Chimica Acta*, 1208, 2022, 339669. [10.1016/j.aca.2022.339669](https://doi.org/10.1016/j.aca.2022.339669)
8. *3D printed spinning cup-shaped device for immunoaffinity solid-phase extraction of diclofenac in wastewaters.* Carrasco-Correa, E.J., Herrero-Martínez, J.M., Simó-Alfonso, E.F., Knopp, D., Miró, M. *Microchimica Acta*, 189, 2022, 173. [10.1007/s00604-022-05267-9](https://doi.org/10.1007/s00604-022-05267-9)
9. *Development of a solid phase microextraction gas chromatography tandem mass spectrometry methodology for the analysis of sixty personal care products in hydroalcoholic gels - hand sanitizers - in the context of COVID-19 pandemic.* Vazquez, L., Celeiro, M., Castiñeira-Landeira, A., Dagnac, T., Llompart, M. *Analytica Chimica Acta*, 1203, 2022, 339650. [10.1016/j.aca.2022.339650](https://doi.org/10.1016/j.aca.2022.339650)
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11. *Gone with the flow - Assessment of personal care products in Portuguese rivers.* Homem, V., Llompart, M., Vila, M., Ribeiro, A.R.L., Garcia-Jares, C., Ratola, N., Celeiro, M. Chemosphere, 293, 2022, 133552. 10.1016/j.chemosphere.2022.133552
12. *Stir bar sorptive-dispersive microextraction by a poly(methacrylic acid-co-ethylene glycol dimethacrylate)-based magnetic sorbent for the determination of tricyclic antidepressants and their main active metabolites in human urine.* Vállez-Gomis, V., Exojo-Trujillo, S., Benedé, J.L., Chisvert, A., Salvador, A. Microchimica Acta, 189, 2022, 52. 10.1007/s00604-021-05156-7.
13. *Polymeric nanocomposites as sorbents in environmental water analysis, a close view to the synthesis and potential applications.* Millán-Santiago, J., Casado-Carmona, F.A., Lucena, R., Cárdenas, S. Current Opinion in Environmental Science and Health, 25, 2022, 100320. 10.1016/j.coesh.2021.100320
14. *Ultrasound-assisted dispersive micro-solid phase extraction of Pb(II) in water samples with in situ synthesis of magnetic Fe<sub>3</sub>O<sub>4</sub>-PbS nanocomposites followed by electrothermal atomic absorption spectrometry determination.* Sanmartín, R., Romero, V., Lavilla, I., Bendicho, C. Spectrochimica Acta - Part B Atomic Spectroscopy, 188, 2022, 106349. 10.1016/j.sab.2021.106349
15. *Weak anion-exchange mixed-mode materials to selectively extract acidic compounds by stir bar sorptive extraction from environmental waters.* Nadal, J.C., Catalá-Icardo, M., Borrull, F., Herrero-Martínez, J.M., Marcé, R.M., Fontanals, N. Journal of Chromatography A, 1663, 2022, 462748. 10.1016/j.jchroma.2021.462748
16. *Covalent organic framework as adsorbent for ultrasound-assisted dispersive (micro)solid phase extraction of polycyclic synthetic fragrances from seawater followed by fluorescent determination.* Romero, V., Lavilla, I., Álvarez, A., Bendicho, C., Espiña, B., Salonen, L.M. Analytica Chimica Acta, 1191, 2022, 339293. 10.1016/j.aca.2021.339293
17. *Multiclass cyanotoxin analysis in reservoir waters: Tandem solid-phase extraction followed by zwitterionic hydrophilic interaction liquid chromatography-mass spectrometry.* Aparicio-Muriana, M.M., Carmona-Molero, R., Lara, F.J., García-Campaña, A.M., del Olmo-Iruela, M. Talanta, 237, 2022, 122929. 10.1016/j.talanta.2021.122929
18. *Portable stirring device for the on-site extraction of environmental waters using magnetic hydrophilic-lipophilic balance tape.* Casado-Carmona, F.A., Jiménez-Soto, J.M., Lucena, R., Cárdenas, S. Analytica Chimica Acta, 1189, 2022, 339186. 10.1016/j.aca.2021.339186
19. *Magnetic deep eutectic solvents in microextraction techniques.* Aguirre, M.Á., Canals, A. TrAC - Trends in Analytical Chemistry, 146, 2022, 116500. 10.1016/j.trac.2021.116500
20. *Wooden-based materials: Eco-friendly materials for direct mass spectrometric analysis and microextraction.* Millán-Santiago, J., Lucena, R., Cárdenas, S. Journal of Separation Science, 45, 2022, 223-232. 10.1002/jssc.202100660



21. *Green molecularly imprinted polymers for sustainable sample preparation.* Martín-Esteban, A. *Journal of Separation Science*, 45, 2022, 233-245. 10.1002/jssc.202100581
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23. *Trace determination of tetrahydrocannabinol (THC) in cosmetic products by stir bar sorptive dispersive microextraction followed by liquid chromatography-tandem mass spectrometry.* Azorín, C., Benedé, J.L., Chisvert, A., Salvador, A. *Talanta*, 253, 2023, 123934. [10.1016/j.talanta.2022.123934](https://doi.org/10.1016/j.talanta.2022.123934)