Survey of Scientific Literature

Trace Elements in Food: Solid Phase Extraction

This list has been drafted for the EURL-CEFAO own scopes and it is not to be considered exhaustive. The listing does not imply any endorsement by the EURL or in any way mean a negative judgement, in case some articles are missing.

1. Selective determination of Cr (VI) by on-line solid phase extraction FI-SPE-FAAS using an ion exchanger resin as sorbent: An improvement treatment of the analytical signal

2. Dual extraction based on solid phase extraction and solidified floating organic drop microextraction for speciation of arsenic and its distribution in tea leaves and tea infusion by electrothermal vaporization ICP-MS
   S. Chen, J. Li, D. Lu, Y. Zhang
   *Food Chemistry* 2016, 211: 741–747

3. A new synthesis, characterization and application chelating resin for determination of some trace metals in honey samples by FAAS
   T. Dasbas, S. Saçmacı, N. Çankaya, C. Soykan
   *Food Chemistry* 2016, 203: 283–291

4. A novel strategy for Cr(III) and Cr(VI) analysis in dietary supplements by speciated isotope dilution mass spectrometry
   N. Unceta, M. Astorkia, Z. Abrego, A. Gómez-Caballero, M. A. Goicolea, R. J. Barrio
   *Talanta* 2016, 154: 255–262

5. Application of solvent-assisted dispersive solid phase extraction as a new, fast, simple and reliable preconcentration and trace detection of lead and cadmium ions in fruit and water samples
   *Food Chemistry* 2015, 187: 82–88
6. Separation-preconcentration of nickel and lead in food samples by a combination of solid-liquid-solid dispersive extraction using SiO2 nanoparticles, ionic liquid-based dispersive liquid-liquid micro-extraction.

N. Jalbani, M. Soylak

*Talanta, 2015*;131:361-365

7. Determination of traces of copper and zinc in honeys by the solid phase extraction pre-concentration followed by the flame atomic absorption spectrometry detection.

H. Stecka, D. Jedryczko, M. Welna, P. Pohl

*Environmental Monitoring and Assessment 2014*, 186: 6145–6155

8. Interference-free determination of trace copper in freshly ripened honeys by flame atomic absorption spectrometry following a preconcentration by solid-phase extraction and a two-step elution process.

P. Pohl P, H. Stecka, P. Jamroz


9. Determination of lead in milk and yoghurt samples by solid phase extraction using a novel aminothioazole-polymeric resin.

C. Er, B. Filiz Senkal, M. Yaman


10. Solid phase extraction of trace cadmium and lead in food samples using modified peanut shell prior to determination by flame atomic absorption spectrometry

G. Xiang, Y. Huang Y. Luo


11. The determination of some heavy metals in food samples by flame atomic absorption spectrometry after their separation-preconcentration on bis salicyl aldehyde, 1,3 propan diimine (BSPDI) loaded on activated carbon

M. Ghaedi, A. Shokrollahi A. H. Kianfar A. S. Mirdadeghi A. Pourfarokhi M. Soylak

12. Solid phase extraction method for the determination of iron, lead and chromium by atomic absorption spectrometry using Amberite XAD-2000 column in various water samples
   L. Elci, A. A. Kartal, M. Soylak

13. Solid phase extraction of lead (II), copper (II), cadmium (II) and nickel (II) using gallic acid-modified silica gel prior to determination by flame atomic absorption spectrometry
   F. Xie, X. Lin, X. Wu, Z. Xie
   *Talanta* **2008**, 74: 836-843

14. Determination of trace elements in food samples by ICP-AES after preconcentration with p-toluenesulfonylamide immobilized on silica gel and nanometer SiO$_2$
   Q. He, X.Chang, X. Huang, Z. Hu
   *Microchimica Acta* **2008**, 160: 147-152

15. Peanut Shell Activated Carbon: Characterization, Surface Modification and Adsorption of Pb$^{2+}$ from Aqueous Solution
   X. Tao, L. Xiaqin
   *Chinese Journal of Chemical Engineering* **2008**, 16: 401-406

16. New sorbents for solid-phase extraction for metal enrichment
   A. Rehber Türker

17. Flame atomic absorption spectrometric determination of cadmium(II) and lead(II) after their solid phase extraction as dibenzylthiocarbamate chelates on Dowex Optipore V-493
   E. Melek, M. Tuzen, M. Soylak
18. Sorbent extraction of rubeanic acid–metal chelates on a new adsorbent: Sepabeads SP70  
   M. Soylak, M. Tuzen  

19. Select metal adsorption by activated carbon made from peanut shells  
   K. Wilson, H. Yang, C. W. Seo, W. E. Marshall  
   *Bioresource Technology* **2006**, 97: 2266-2270

20. Solid phase extraction of trace elements  
   V. Camel  

   M. de Godoi Pereira, M. A. Zezzi Arruda  