

## Grupul de cercetare

### Chimia analitică a mediului

#### Publicatii

1. Olariu, R.I., Vione, D., Grinberg, N., Arsene C., Applications of liquid chromatographic techniques in the chemical characterization of atmospheric aerosols, *Journal of Liquid Chromatography and Related Technologies*, 38, 322-348, **2015**.
2. Sandu, I., Olariu, R.I., Sandu, I.G., Stirbu, C., Pascu, C., Vasilache, V., Vione, D., Arsene, C., Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salts, *Journal of Aerosol Science*, 81, 100-109, **2015**.
3. Louis C, Covaci A, Stas M, Crocker DE, Malarvannan G, Dirtu AC, Debier C. Bioaccumulation of hydroxylated polychlorinated biphenyls and pentachlorophenol in the serum of northern elephant seal pups (*Mirounga angustirostris*). *Environmental Research* 136, 441-448, **2015**.
4. Dirtu AC, Buczynska AJ, Godoi AFL, Favoreto R, Bencs L, Potgieter-Vermaak SS, Godoi RHM, Van Grieken R, Van Vaeck L. Methods, fluxes and sources of gas phase alkyl nitrates in the coastal air. *Environmental Monitoring and Assessment* 186 (10), 6445-6457, **2014**.
5. Dirinck EL, Dirtu AC, Govindan M, Covaci A, Van Gaal LF, Jorens PG. Exposure to Persistent Organic Pollutants: Relationship With Abnormal Glucose Metabolism and Visceral Adiposity. *Diabetes Care* 37 (7), 1951-1958, **2014**.
6. Ali N, Mehdi T, Malik RN, Eqani SAMAS, Kamal A, Dirtu AC, Neels H, Covaci A. Levels and profile of several classes of organic contaminants in matched indoor dust and serum samples from occupational settings of Pakistan. *Environmental Pollution* 193, 269-276, **2014**.
7. Louis C, Dirtu AC, Stas M, Guiot Y, Malarvannan G, Das K, Costa DP, Crocker DE, Covaci A, Debier C. Mobilisation of lipophilic pollutants from blubber in northern elephant seal pups (*Mirounga angustirostris*) during the post-weaning fast. *Environmental Research* 132, 438-448, 2014. (IF – 3.951)
8. Ionas AC, Dirtu AC, Anthonissen T, Neels H, Covaci A. Downsides of the recycling process: Harmful organic chemicals in children's toys. *Environment International* 65, 54-62, **2014**.
9. Pereira-Fernandes A, Dirinck E, Dirtu AC, Malarvannan G, Covaci A, Van Gaal L, Vanparys C, Jorens PG, Blust R. Expression of Obesity Markers and Persistent Organic Pollutants Levels in Adipose Tissue of Obese Patients: Reinforcing the Obesogen Hypothesis? *Plos One* 9 (1), e84816, **2014**.
10. 8. Dirtu AC, Geens T, Dirinck E, Malarvannan G, Neels H, Van Gaal L, Jorens PG, Covaci A. Phthalate metabolites in obese individuals undergoing weight loss: Urinary levels and estimation of the phthalates daily intake. *Environment International* 59, 344-353, **2013**.
11. Olariu, R.I.\*, Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H., FTIR product study of the reactions of NO<sub>3</sub> radicals with ortho-, meta-, and para-cresol, *Environmental Science and Technology*, 47, 7729-7738, **2013**.
12. Pindaru D.M., Tanase C., Olariu R.I., Arsene C., Chemical composition and ions concentration in *xanthoria parietina* and *phaeophyscia orbicularis* lichenised fungi species from Iasi, North-Eastern Romania, *Revista de Chimie*, 64(8), 807-814, **2013**.

13. Pindaru D.M., Tanase C., Olariu R.I., Arsene C., Extra and intercellular concentrations of water soluble cations from *Xanthoria parietina* and *Phaeophyscia orbicularis* lichenized fungi species, *Revista de Chimie*, 64(7), 715-719, **2013**.
14. Duncianu M., Olariu R.I., Riffault V., Visez N., Tomas A., Coddeville P. Development of a new flow reactor for kinetic studies. Application to the ozonolysis of a series of alkenes, *Journal of Physical Chemistry A*, 116, 6169-6179, **2012**.
15. Dirtu AC, Ali N, Van den Eede N, Neels H, Covaci A. Country specific comparison for profile of chlorinated, brominated and phosphate organic contaminants in indoor dust. Case study for Eastern Romania, 2010. *Environment International*, 49, 1-8, **2012**.
16. Arsene, C., Vione, D., Grinberg, N., Olariu, R.I., GCxGC-MS hyphenated techniques for the analysis, of volatile organic compounds in air, *Journal of Liquid Chromatography & Related Technologies*, 34, 1077–1111, **2011**.
17. Cernat, R.I., Mihaescu, T., Vornicu, M. Vione, D., Olariu, R.I., Arsene, C.\*, Serum trace metal and ceruloplasmin variability in individuals treated for pulmonary tuberculosis, *International Journal of Tuberculosis and Lung Diseases*, 15, 1239-1245, **2011**
18. Arsene, C.\*, Olariu, R.I., Zampas, P., Kanakidou, M., Mihalopoulos, N., Ion composition of coarse and fine particles in Iasi, north-eastern Romania. Implications for aerosols chemistry in the area, *Atmospheric Environment*, 45, 906-916, **2011**.
19. Olariu, R.I., Vione, D., Grinberg, N., Arsene, C.\*, Sample preparation for trace analysis by chromatographic methods, *Journal of Liquid Chromatography & Related Technologies*, 33, 1174-1207, **2010**.
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25. Vione, D., Lauri, V., Minero, C., Maurino, V., Malandrino, M., Carlotti, M.E., Olariu, R.I., Arsene, C., Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight, *Aquatic Sciences*, 71, 34-45, **2009**.
26. Vione, D., Maurino, V, Cucu-Man, S., Khanra, S., Arsene, C., Olariu, R., Minero, C., Formation of organobrominated compounds in the presence of bromide under simulated atmospheric aerosol conditions, *Chemistry Sustainable Chemistry*, 1, 197–204, **2008**.
27. Arsene, C.\*, Olariu, R.I., Mihalopoulos, N., Chemical composition of rainwater in the north-eastern Romania, Iasi region (2003-2006), *Atmospheric Environment*, 41, 9452-9467, **2007**.
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