



Școala Doctorală de Chimie

TEMATICA PENTRU CONCURSUL DE ADMITERE LA DOCTORAT sesiunea septembrie 2021

Prof. univ. dr. habil. Cecilia ARSENE

- 1. Hidrocarburi aromatice policiclice și derivați ai acestora în atmosfera zonei urbane Iași, nord-estul României. Atribuirea surselor și estimarea riscurilor asupra sănătății umane (ro)**
Polycyclic aromatic hydrocarbons (PAHs) and their derivatives in the atmosphere of the Iasi urban area, north-eastern Romania: Sources apportionment and health risk assessments (en)

Bibliografie/References

1. Lv, Y., Li, X., Xu, T.T., Cheng, T.T., Yang, X., Chen, J.M., Iinuma, Y., Herrmann, H., Size distributions of polycyclic aromatic hydrocarbons in urban atmosphere: sorption mechanism and source contributions to respiratory deposition, *Atmospheric Chemistry and Physics*, 16, 2971-2983, 2016.
2. Maceira, A., Marce, R.M., Borruall, F., Analytical methods for determining organic compounds present in the particulate matter from outdoor air, *Trends in Analytical Chemistry*, 122, 115707, 2020.
3. 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.
4. Singh, R., Yadav, A., Chopra, A., Christopher, J., Kapur, G.S., Comparison of five different HPLC columns with different particle sizes, lengths and make for the optimization of seven polycyclic aromatic hydrocarbons (PAH) analysis, *Springer Nature Applied Sciences*, 1, 313, 2019.
5. Song, W., Cao, F., Lin, Y.C., Haque, M., Wu, X., Zhang, Y., Zhang, C., Xie, F., Zhang, Y.L., Extremely high abundance of polycyclic aromatic hydrocarbons in aerosols from a typical coal-combustion rural site in China: Size distribution, source identification and cancer risk assessment, *Atmospheric Research*, 248, 105192, 2021.

Conducător de doctorat,
Prof. univ. dr. habil. Cecilia ARSENE