Konstantinos G. Koukoulakis



LABORATORY TEACHING STAFF

LABORATORY OF ENVIRONMENTAL CHEMISTRY, DEPARTMENT OF CHEMISTRY, NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

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EDUCATION

2020	Ph.D. in Environmental Analysis, Department of Chemistry, NKUA. Thesis title: "Study on the transformation of anthropogenic atmospheric pollutants in atmosphere and biological fluids"
2014	MSc in "Environmental Chemistry and Technology", Department of Chemistry, National and Kapodistrian University of Athens (NKUA). Thesis title: Development and validation of multivariate method for the determination of heavy metals in airborne particulate matter
2012	BSc in "Chemistry", Department of Chemistry, National and Kapodistrian University of Athens

APPOINTMENTS

2023 - today	Laboratory Teaching staff in Environmental Chemistry, Department of Chemistry, National and Kapodistrian University of Athens
2022 - 2023	Post-Doctoral Researcher, Institute of Environmental Research and Sustainable Development (IERSD) of the National Observatory of Athens (NOA)
2020 – 2022	Post-Doctoral Researcher, Analytical Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens

RESEARCH FIELDS

i) monitoring of organic and inorganic pollutants in atmosphere and other environmental matrices, ii) pollutants' source apportionment, iii) impact of pollutants in public health, iv) development and validation of analytical methods for the determination of pollutants in different environmental matrices and biological fluids v) application of analytical methods for the determination of compounds related with the environment, from different chemistry sectors

EDUCATIONAL EXPERIENCE

UNDERGRADUATE COURSES

- Atmospheric Chemistry, Dept of Chemistry, NKUA
- Environmental Chemistry, Dept of Chemistry, NKUA
- Environmental Management and Technology, Dept of Chemistry, NKUA

AWARDS / SCHOLARSHIPS

- PhD research work was supported by the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under the HFRI PhD Fellowship grant (GA no.1102) (2015-2020)

REVIEWER OF SCIENTIFIC JOURNALS

Chemosphere, Atmosphere, Sustainability, Toxics, International Journal of Environmental Research and Public Health

ADDITIONAL INFORMATION

- Presentations at conferences: **14**
- Collaboration/Participation in **6** Research Programs

SELECTED PUBLICATIONS

- K.G. Koukoulakis, P.G. Kanellopoulos, E. Chrysohou, D. Costopoulou, I. Vassiliadou, L. Leondiadis, E. Bakeas (2020). Atmsopheric concentrations and health implications of PAHs, PCBs and PCDD/Fs in the vicinity of a heavily industrialized site in Greece. Appl. Sci 10(24): 9023 (IF:2.838) https://doi.org/10.3390/app10249023

- K.G. Koukoulakis, P.G. Kanellopoulos, E. Chrysohou, V. Koukoulas, M. Minaidis, G. Maropoulos, G.P. Nikoleli, E. Bakeas (2020). Leukemia and PAHs levels in human blood serum: Preliminary results from an adult cohort in Greece. Atm Pollut Res 11(9):1552-1565 (IF:4.831) https://doi.org/10.1016/j.apr.2020.06.018

- E. Chrysochou*, K. Koukoulakis*, P.G. Kanellopoulos A. Sakellari, S. Karavoltsos, M. Dassenakis, M. Minaidis, G. Maropoulos, E. Bakeas (2021) Human serum elements' levels and leukemia: A first pilot study from an adult Greek cohort, J Trace Elem Med Biol 68:126833 (*equal contribution) (IF:3.995) https://doi.org/10.1016/j.jtemb.2021.126833

- K.G. Koukoulakis, E. Chrysohou, P.G. Kanellopoulos, S. Karavoltsos, G. Katsouras, M. Dassenakis, D. Nikolelis, E. Bakeas (2019). Trace elements bound to airborne PM10 in a heavily industrialized site nearby Athens: Seasonal patterns, emission sources, health implications. Atm Pollut Res 10 (4):1347-1356 (IF:4.831) https://doi.org/10.1016/j.apr.2019.03.007

- P.G. Kanellopoulos, S.P. Kotsaki, E. Chrysochou, K. Koukoulakis, N. Zacharopoulos, A.I. Philippopoulos, E. Bakeas (2022) PM2.5- bound organosulfates in two Eastern Mediterranean cities: The dominance of isoprene organosulfates, Chemosphere 297:134103 (IF:8.943) https://doi.org/10.1016/j.chemosphere.2022.134103

- E. Chrysochou, P.G. Kanellopoulos, K. Koukoulakis, A. Sakellari, S. Karavoltsos, M. Minaidis, E. Bakeas (2021) Heart failure and PAHs, OHPAHs, and trace elements levels in human serum: Results from a preliminary pilot study in Greek population and the possible impact of air pollution, Molecules 26(11):3207 (IF:4.927) https://doi.org/10.3390/molecules26113207

- P.G. Kanellopoulos, E. Chrysochou, K. Koukoulakis, E. Bakeas (2021) Secondary organic aerosols markers and related polar organic compounds in summer aerosols from a sub-urban site in Athens: Size distributions, diurnal trends and source apportionment, Atm Pol Res 12(4):1-13 (IF:4.831) https://doi.org/10.1016/j.apr.2021.02.013

- P.G. Kanellopoulos, E. Verouti, E. Chrysochou, K. Koukoulakis, E. Bakeas (2021). Primary and secondary organic aerosol in an urban/industrial site: Sources, health implications and the role of plastic enriched waste burning J Environ Sci, 99:22-238 (IF:6.796) https://doi.org/10.1016/j.jes.2020.06.012

- P.G. Kanellopoulos, E. Chrysochou, K. Koukoulakis, E. Vasileiadou, C. Kizas, C. Savvides, E. Bakeas (2020). Polar organic compounds in PM10 and PM2.5 atmospheric aerosols from a

background Eastern Mediterranean site during the winter period: Secondary formation, distribution and source apportionment. Atmos Environ 237 :117622 (IF:5.755) https://doi.org/10.1016/j.atmosenv.2020.117622

- C. Moustani, E. Anagnostopoulou, K. Krommyda, C. Panopoulou, K. G. Koukoulakis, E. B. Bakeas, G. Papadogianakis (2018). Novel aqueous-phase hydrogenation reaction of the key biorefinery platform chemical levulinic acid into γ-valerolactone employing highly active, selective and stable water-soluble ruthenium catalysts modified with nitrogen-containing ligands Appl Catal B-Environ. (238):82-92 (IF:24.319) https://doi.org/10.1016/j.apcatb.2018.07.009