

# Aikaterini Sakellari

## Laboratory Teaching Staff



LABORATORY OF ENVIRONMENTAL CHEMISTRY, DEPARTMENT OF CHEMISTRY,  
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(publications: 49, citations: 1548, h-index: 17)

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## EDUCATION

- 2000 BSc in Chemistry, NKUA
- 2002 MSc of the Interdepartmental Post-Graduate Course of Oceanography (Field of Chemical Oceanography) / NKUA
- 2007 PhD of the Interdepartmental Post-Graduate Course of Oceanography (Field of Chemical Oceanography) / NKUA

## RESEARCH FIELDS

Metals biogeochemical cycles in marine systems. Surface microlayer of aquatic systems. Metals speciation in different phases of the marine environment. Application of voltammetric techniques for the study of metal complexing capacity in several substrates (seawater, rainwater, algal exudates, wine and wine products, infusions, beverages etc). Trace elements accumulation in biomass and humans. Trace elements occurrence in various substrates of environmental samples (seawater and fresh water, sediments, atmospheric particulate matter, biomass, foodstuffs, biological fluids, solid wastes and products of waste recycling). The role of the different forms of organic matter.

## EDUCATIONAL EXPERIENCE

### UNDERGRADUATE COURSES

- «Environmental Chemistry» (632)/ Compulsory/ Department of Chemistry
- «Atmospheric Chemistry» (737)/ Elective/ Department of Chemistry
- «Chemical Oceanography» (738)/ Elective/ Department of Chemistry
- «Environmental Management and Technology» (836)/ Elective/ Department of Chemistry
- «Toxicology-Ecotoxicology» (8121)/ Elective/ Department of Chemistry

### POSTGRADUATE COURSES

- Laboratory of Environmental Chemistry/ Department of Chemistry/ Inter-institutional Post-graduate Course "Oceanography and Management of the Marine Environment"/ Courses: "Introduction to Chemical Oceanography", "Analytical Chemical Oceanography", "Marine Ecotoxicology"
- Laboratory of Environmental Chemistry/ Department of Chemistry/ Inter-institutional Post-graduate Course "Didactics of Chemistry, New Educational Technologies and Education for Sustainable Development (DIXINET-EAA)"/ Course: "Education for Environment and Sustainable Development I"

## REVIEWER OF SCIENTIFIC JOURNALS

Agronomy

African Journal of Agricultural Research  
Continental Shelf Research  
Ecotoxicology and Environmental Safety  
Environmental Earth Sciences  
Environmental Monitoring and Assessment  
Environmental Science and Pollution Research  
Frontiers in Marine Science  
Journal of Cereals and Oilseeds  
Journal of Consumer Protection and Food Safety  
Marine Pollution Bulletin  
Science of the Total Environment  
Water

#### EDITOR OF BOOKS AND SPECIAL VOLUMES

- Dassenakis M.I., Voutsas D.K., Karapanagioti C.K., Karavoltzos S., Ladakis E.I., Samara C.A., Sakkas V.A., Paraskevopoulou V.V., **Sakellari A.**, Environmental Chemistry, Broken Hill Publishers, 2021, ISBN: 978-9925-588-12-1. Translation of the originally published in English book "Environmental Chemistry", 5<sup>th</sup> edition, by Colin Baird and Michael Cann, W.H. Freeman and Company, 2012, ISBN: 978-1-4292-7707-4.
- Dassenakis, M., Ladakis, M., Paramana, T., Paraskevopoulou V., **Sakellari A.**, «Management of the Marine Environment», Undergraduate textbook, Kallipos, Open Academic Publications, National and Technical University of Athens, 2023, Athens, ISBN: 978-618-228-079-9. <http://dx.doi.org/10.57713/kallipos-312>

#### ADDITIONAL INFORMATION

- Conference presentations: 56 in international scientific conferences with reviewers, 16 in Greek scientific conferences with reviewers
- Supervision of undergraduate theses: 5
- Collaboration with academic staff during the elaboration of 21 undergraduate theses and 18 post-graduate theses (participation in the 3-member advisory committee in 5 of them)
- Participation in the accreditation system according to ISO EN/IEC 17025 applied in the Laboratory of Environmental Chemistry, Chemistry Department, NKUA

#### SELECTED PUBLICATIONS

- Karavoltzos S., **Sakellari A.**, Plavšić M., Bekiaris G., Tagkouli, D., Triantafyllidis A., Giannakourou A., Zervoudaki S., Gkikopoulos I., Kalogeropoulos N., 2022. Metal complexation, FT-IR characterization, and plankton abundance in the marine surface microlayer of coastal areas in the Eastern Mediterranean. *Frontiers in Marine Science*, 9, 932446 (<https://doi.org/10.3389/fmars.2022.932446>).
- Grigoriou C., Costopoulou D., Vassiliadou I., Karavoltzos S., **Sakellari A.**, Bakeas E., Leondiadis L., 2022. Polycyclic aromatic hydrocarbons and trace elements dietary intake in inhabitants of Athens, Greece, based on a duplicate portion study. *Food and Chemical Toxicology*, 165, 113087 (<https://doi.org/10.1016/j.fct.2022.113087>).
- **Sakellari A.**, Karavoltzos S., Moutafis I., Koukoulakis K., Dassenakis M., Bakeas E., 2021. Occurrence and distribution of polycyclic aromatic hydrocarbons in the marine surface microlayer of an industrialized coastal area in the eastern Mediterranean. *Water*, 13, 3174 (<https://doi.org/10.3390/w13223174>).
- Stamatelopoulou A., Dasopoulou M., Bairachtari, A., Karavoltzos, S., Sakellari A., Maggos T., 2021. Contamination and potential risk assessment of Polycyclic Aromatic Hydrocarbons (PAHs) and heavy metals in house settled dust collected from residences of young children. *Applied Sciences*, 11, 1479, 1-16 (<https://doi.org/10.3390/app11041479>).
- Karavoltzos S., **Sakellari A.**, Bakeas E., Bekiaris G., Plavšić M., Proestos C., Zinelis S., Koukoulakis K., Diakos I., Dassenakis M., Kalogeropoulos N., 2020. Trace elements, polycyclic aromatic hydrocarbons, mineral composition, and FT-IR characterization of unrefined sea and rock salts: environmental interactions. *Environmental Science and Pollution Research*, 27(10), 10857-10868 (<https://doi.org/10.1007/s11356-020-07670-2>).

- **Sakellari A.**, Karavoltos S., Tagkouli D., Rizou C., Sinanoglou V.J., Zoumpoulakis P., Koutrotsios G., Zervakis G.I., Kalogeropoulos N., 2019. Trace elements in *Pleurotus ostreatus*, *P. eryngii* and *P. nebrodensis* mushrooms cultivated on various agricultural by-products. *Analytical Letters*, 52(17), 2692-2709 (<https://doi.org/10.1080/00032719.2019.1594865>).
- **Sakellari A.**, Karavoltos S., Plavšić M., Bempi E., Papantonopoulou G., Dassenakis M., Kalogeropoulos N., 2017. Copper complexing properties, trace metal content and organic matter physicochemical characterization of Greek beers. *Microchemical Journal*, 135, 66-73 (<https://doi.org/10.1016/j.microc.2017.07.010>).
- **Sakellari A.**, Plavšić M., Karavoltos S., Diakos I., Dassenakis M., Proestos C., 2016. Electrochemical evaluation of the organic matter content of edible sea and rock salts retailed in the Greek market. *Current Research in Nutrition and Food Science*, 4(SI 2), 125-132 (<https://dx.doi.org/10.12944/CRNFSJ.4.Special-Issue-October.17>).
- **Sakellari A.**, Karavoltos S., Kalogeropoulos N., Theodorou D., Dedoussis G., Chrysoshoou C., Dassenakis M., Scoullos M., 2016. Predictors of cadmium and lead concentrations in the blood of residents from the metropolitan area of Athens (Greece). *Science of the Total Environment*, 568, 263-270 (<https://doi.org/10.1016/j.scitotenv.2016.06.018>).
- **Sakellari A.**, Karavoltos S., Theodorou D., Dassenakis M., Scoullos M., 2013. Bioaccumulation of metals (Cd, Cu, Zn) by the marine bivalves *M. galloprovincialis*, *P. radiata*, *V. verrucosa* and *C. chione* in Mediterranean coastal microenvironments: association with metal bioavailability. *Environmental Monitoring and Assessment*, 185, 3383-3395 (<https://doi.org/10.1007/s10661-012-2799-2>).