Aikaterini Sakellari



Laboratory Teaching Staff

LABORATORY OF ENVIRONMENTAL CHEMISTRY, DEPARTMENT OF CHEMISTRY, NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS (NKUA)

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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"

RESEARCH GRANTS

Participation in the research project "INTERSEA – DEVELOPMENT OF AUTOMATED SAMPLING TOOLS TO MONITOR THE SEA – AIR INTERFACE IN COASTAL AREAS", implemented in the framework of H.F.R.I call "Basic research Financing (Horizontal support of all Sciences)" under the National Recovery and Resilience Plan "Greece 2.0" funded by the European Union – Next Generation EU (H.F.R.I. Project Number: 15392).

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., Voutsa D.K., Karapanagioti C.K., Karavoltsos 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", 5th 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: 44 in international scientific conferences with reviewers, 32 in Greek scientific conferences with reviewers
- Supervision of undergraduate theses: 5
- Collaboration with academic staff during the elaboration of 21 undergraduate theses and 21 post-graduate theses (participation in the 3-member advisory committee in 8 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

- Karavoltsos 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., Karavoltsos 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.**, Karavoltsos 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., Karavoltsos, 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).
- Karavoltsos 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.**, Karavoltsos 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.**, Karavoltsos 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., Karavoltsos 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.**, Karavoltsos S., Kalogeropoulos N., Theodorou D., Dedoussis G., Chrysohoou 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.**, Karavoltsos 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).