

## 1 CURRICULUM VITAE

PERSONAL INFORMATION	
<b>SURNAME</b>	KELEPERTZIS
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<b>DATE OF BIRTH</b>	23 OCTOBER 1980
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SCOPUS h-index: 19, Google Scholar h-index: 20

Number of publications in **international peer-reviewed journals** (SCOPUS): 36

## CURRENT POSITION

<b>2024-present</b>	<b>Associate Professor of Environmental Geochemistry</b> Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece
<b>2021 -2024</b>	<b>Assistant Professor of Environmental Geochemistry</b> Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece

## PREVIOUS POSITIONS

<b>2014 -2021</b>	<b>Laboratory Teaching Staff</b> Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece
<b>2007 -2014</b>	<b>Administrative Staff</b> Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece

## 2 EDUCATION

<b>2007 -2011</b>	Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece. <i>'Bioaccessibility of potentially toxic elements in surface geochemical media of dispersion for the environmental risk assessment at mining areas of NE Chalkidiki'</i> , PhD in Geological and Environmental Sciences (Grade: excellent)
<b>2004 -2005</b>	University of Portsmouth, School of Earth and Environmental Sciences, United Kingdom. <i>'Environmental study of soils, surface and groundwaters in an industrial zone east of Larisa town, central Greece'</i> . MSc in Contaminated Land (awarded with merit)
<b>1998-2003</b>	Department of Geology, National and Kapodistrian University of Athens, Greece. <i>'The distribution of heavy metals (Cu, Pb, Zn, Cd) in soil samples from Thoriko and Plaka areas (Lavrio) in terms of their environmental pollution.</i> BSc in Geology

### 3 PUBLICATIONS (PEER REVIEWED JOURNALS)

- Menegaki, S., **Kelepertzis, E.**, Kypridou, Z., Lampropoulou, A., Chrastný, V., Aidona, E., Bourliva, A., Komárek, M., 2024. [Characterization of the inhalable fraction \(<10 µm\) of soil from highly urbanized and industrial environments: magnetic measurements, bioaccessibility, Pb isotopes and health risk assessment](#). *Environmental Geochemistry and Health* 46: 230, Special Issue: Environmental Geochemistry and the Net Zero Transition in a Post-Pandemic Environment - the 38<sup>th</sup> International Conference of SEGH.
- Kypridou, Z., **Kelepertzis, E.**, Kritikos, I., Kapaj, E., Skoulika, A., Kostakis, M., Vassilakis, E., Karavoltos, S., Boeckx, B., Matiatos, I., 2024. [Geochemistry and origin of inorganic contaminants in soil, river sediment and surface water in a heavily urbanized river basin](#). *Science of the Total Environment* 927: 172250.
- Skordas, K., Georgiou, K., Kinigopoulou, V., **Kelepertzis, E.**, Apostologamvrou, C., Lolas, A., Petrotou, A., Neofitou, N., Vafidis, D., 2024. [Potentially toxic element assessemnt and biological accumulation in two sea cucumbers species \*Holothuria poli\* and \*Holothuria tubulosa\*](#). *Regional studies in Marine Science* 70: 103370.
- Bourliva, A., **Kelepertzis, E.**, Papadopoulou, L., Patinha, C., Kantiranis, N., 2023. [Enhanced gastric/lung bioaccessibility from lignite fly ashes: comparing bioaccessibility rates with multiple environmental matrices](#). *Toxics* 11:358.
- **Kelepertzis, E.**, Matiatos, I., Botsou, F., Antonopoulou, C., Lappas, I., Dotsika, E., Chrastný, V., Boeckx, P., Karavoltos, S., Komárek, M., 2023. [Assessment of natural and anthropogenic contamination sources in a Mediterranean aquifer by combining hydrochemical and stable isotope techniques](#). *Science of the Total Environment* 858: 159763.
- Botsou, F., Sungur, A., **Kelepertzis, E.**, Kypridou, Z., Daferera, O., Massas, I., Argyraki, A., Skordas, K., Soylak, M., 2022. [Estimating remobilization of potentially toxic elements in soil and road dust of an industrialized urban environment](#). *Environmental Monitoring and Assessment* 194: 526.
- Pyrgaki, K., **Kelepertzis, E.**, Argyraki, A., Boeckx, P., Botsou, F., Dassenakis, E., 2022. [Identification of sources and transformations of nitrate in Cr\(VI\)-impacted alluvial aquifers by a hydrogeochemical and δ<sup>15</sup>N-NO<sub>3</sub> and δ<sup>18</sup>O-NO<sub>3</sub> isotopes approach](#). *Environmental Science and Pollution Research* 29: 57703-57719.
- Kourgia, P., Argyraki, A., Paraskevopoulou, V., Botsou, F., **Kelepertzis, E.**, Dassenakis, M., 2022. [Environmental fate of trace elements in depositional sediments after flashflood events: the case of Mandra town in Greece](#). *Sustainability* 14: 2448.
- **Kelepertzis, E.**, Chrastný, V., Botsou, F., Sigala, E., Kypridou, Z., Komárek, M., Skordas, K., Argyraki, A., 2021. [Tracing the sources of bioaccessible metal\(loid\)s in urban environments: A multidisciplinary approach](#). *Science of the Total Environment* 771: 144827.
- Pyrgaki, K., Argyraki, A., Botsou, F., **Kelepertzis, E.**, Paraskevopoulou, V., Karavoltos, S., Mitsis, I., Dassenakis, E., 2021. [Hydrogeochemical investigation of Cr in the ultramafic rock-related water bodies of Loutraki Basin, Northeast Peloponnese, Greece](#). *Environmental Earth Sciences* 80: 62.
- Pyrgaki, K., Argyraki, A., **Kelepertzis, E.**, Botsou, F., Megremi, I., Karavoltos, S., Dassenakis, E., Mpouras, T., Dermatas, D., 2021. [A DPSIR approach to selectd Cr\(VI\) impacted](#)

- [groundwater bodies of central Greece](#). *Bulletin of Environmental Contamination and Toxicology* 106: 446-452.
- Botsou, F., Moutafis, I., Dalaina, S., **Kelepertzis, E.**, 2020. [Settled bus dust as a proxy of traffic-related emissions and health implications of exposures to potentially harmful elements](#). *Atmospheric Pollution Research* 11: 1776-1784.
  - **Kelepertzis, E.**, Argyraki, A., Chrastný, V., Botsou, F., Skordas, K., Komárek, M., Fouskas, A., 2020. [Metal\(loid\) and isotopic tracing of Pb in soils, road and house dusts from the industrial area of Volos \(central Greece\)](#). *Science of the Total Environment* 725: 138300.
  - **Kelepertzis, E.**, Argyraki, A., Botsou, F., Aidona, E., Szabó, A., Szabó, C., 2019. [Tracking the occurrence of anthropogenic magnetic particles and potentially toxic elements \(PTEs\) in house dust using magnetic and geochemical analyses](#). *Environmental Pollution* 245: 909-920.
  - Argyraki, A., **Kelepertzis, E.**, Botsou, F., Paraskevopoulou, V., Katsikis, I., Trigoni, M., 2018. [Environmental availability of trace elements \(Pb, Cd, Zn, Cu\) in soil from urban, suburban, rural and mining areas of Attica, Hellas](#). *Journal of Geochemical Exploration* 187: 201-213.
  - **Kelepertzis, E.**, Botsou, F., Patinha, C., Argyraki, A., Massas, I., 2018. [Agricultural geochemistry in viticulture: An example of Cu accumulation and geochemical fractionation in Mediterranean calcareous soils \(Nemea region, Greece\)](#). *Applied Geochemistry* 88: 23-39.
  - Botsou, F., Sungur, A., **Kelepertzis, E.**, Soylak, M., 2016. [Insights into the chemical partitioning of trace metals in roadside and off-road agricultural soils along two major highways in Attica's region, Greece](#). *Ecotoxicology and Environmental Safety* 132: 101-110.
  - **Kelepertzis, E.**, Komárek, M., Argyraki, A., Šillerová, H., 2016. [Metal\(loid\) distribution and Pb isotopic signatures in the urban environment of Athens, \(Greece\)](#). *Environmental Pollution* 213: 420-431.
  - Kazantzoglou, A., Argyraki, A., Daoud, R., Papageorgiou, S., **Kelepertzis, E.**, Fadel, D., 2016. Interaction of heavy metals in the soil-plant system of urban gardens in Athens, Greece. *International Journal of plant, animal and environmental sciences* 6: 111-117.
  - Voutsis, N., **Kelepertzis, E.**, Tziritis, E., Kelepertzis, A., 2015. [Assessing the hydrogeochemistry of groundwaters in ophiolite areas of Euboea Island, Greece, using multivariate statistical methods](#). *Journal of Geochemical Exploration* 159: 79-92.
  - **Kelepertzis, E.**, Paraskevopoulou, V., Argyraki, A., Fligos, G., Chalkiadaki, O., 2015. [Evaluation of single extraction procedures for the assessment of heavy metal extractability in citrus agricultural soil of a typical Mediterranean environment \(Argolida, Greece\)](#). *Journal of Soils and Sediments* 15: 2265-2275.
  - **Kelepertzis, E.**, Argyraki, A., 2015. [Geochemical associations for evaluating the availability of potentially harmful elements in urban soils: Lessons learnt from Athens, Greece](#). *Applied Geochemistry* 59: 63-73.
  - **Kelepertzis, E.**, Argyraki, A., 2015. [Mercury in the urban topsoil of Athens, Greece](#). *Sustainability* 7: 4049-4062.
  - Skordas, K., **Kelepertzis, E.**, Kosmidis, D., Panagiotaki, P., Vafidis, D., 2015. [Assessment of nutrients and heavy metals in the surface sediments of the artificially lake water reservoir Karla, Thessaly, Greece](#). *Environmental Earth Sciences* 73: 4483-4493.

- Pelton, A., Stamatakis, M., **Kelepertzis, E.**, Panagou, A., 2015. [The origin and archaeometallurgy of a mixed sulphide ore for copper production on the island of Kea, Aegean Sea, Greece.](#) *Archaeometry* 57: 318-343.
- Argyraki, A., **Kelepertzis, E.**, 2014. [Urban soil geochemistry in Athens, Greece: The importance of local geology in controlling the distribution of potentially harmful trace elements.](#) *Science of the Total Environment* 482-483: 366-377.
- **Kelepertzis, E.**, 2014. [Accumulation of heavy metals in agricultural soils of Mediterranean: Insights from Argolida basin, Peloponnese, Greece.](#) *Geoderma* 221-222: 82-90.
- **Kelepertzis, E.**, 2014. [Investigating the sources and potential health risks of environmental contaminants in the soils and drinking waters from the rural clusters in Thiva area \(Greece\).](#) *Ecotoxicology and Environmental Safety* 100: 258-265.
- **Kelepertzis, E.**, Stathopoulou, E., 2013. [Availability of geogenic heavy metals in soils of Thiva town \(central Greece\).](#) *Environmental Monitoring and Assessment* 185: 9603-9618.
- Kaitantzian, A., **Kelepertzis, E.**, Kelepertzis, A., 2013. [Evaluation of the sources of contamination in the suburban area of Koropi-Markopoulo, Athens, Greece.](#) *Bulletin of Environmental Contamination and Toxicology* 91: 23-28.
- **Kelepertzis, E.**, 2013. [Heavy metals baseline concentrations in soft tissues of \*Patella\* sp. from the Stratoni coastal environment, NE Greece.](#) *Ecological Chemistry and Engineering S* 20: 141-149.
- **Kelepertzis, E.**, Galanos, E., Mitsis, I., 2013. [Origin, mineral speciation and geochemical baseline mapping of Ni and Cr in agricultural topsoils of Thiva valley \(central Greece\).](#) *Journal of Geochemical Exploration* 125: 56-68.
- Tziritis, E., **Kelepertzis, E.**, Korres, G., Perivolaris, D., Repani, S., 2012. [Hexavalent chromium contamination in groundwaters of Thiva basin, central Greece.](#) *Bulletin of Environmental Contamination and Toxicology* 89: 1073-1077.
- **Kelepertzis, E.**, Argyraki, A., Valakos, E., Daftsis, E., 2012. [Distribution and accumulation of metals in tadpoles inhabiting the metalliferous streams of eastern Chalkidiki, Northeast Greece.](#) *Archives of Environmental Contamination and Toxicology* 63: 409-420.
- Antibachi, D., **Kelepertzis, E.**, Kelepertzis, A., 2012. [Heavy metals in agricultural soils of the Mouriki-Thiva area \(central Greece\) and environmental impact implications.](#) *Soil and Sediment Contamination* 21: 434-450.
- **Kelepertzis, E.**, Argyraki, A., Daftsis, E., 2012. [Geochemical signature of surface water and stream sediments of a mineralized drainage basin at NE Chalkidiki, Greece: A pre-mining survey.](#) *Journal of Geochemical Exploration* 114: 70-81.
- Kelepertzis, A., Tziritis, E., **Kelepertzis, E.**, Leontakianakos, G., Pallas, K., 2009. [Hydrogeochemical characteristics and genetic implications of Edipsos thermal springs, north Euboea, Greece.](#) *Central European Journal of Geosciences* 1: 241-250.

#### 4 SCIENTIFIC ACTIVITIES

<b>Standardized citation indicator</b>	2020, 2021 and 2022: Inclusion for 3 consecutive years in the international list of Top 2% scientists in the field of Earth and Environmental Sciences, based on Stanford University Ranking
<b>Workshop</b>	Organization (with Prof. Ariadne Argyraki) of workshop entitled " <i>Laboratory chemical methods for assessing environmental and health risks of potentially toxic elements in earth materials</i> " (16 <sup>th</sup> International Conference of the Geological Society of Greece, Patra)
<b>Guest Editor</b>	<ul style="list-style-type: none"> <li>• '<i>Environmental Geochemistry and Health</i>' Journal (I.F.3.2), Special Issue: <i>Environmental Geochemistry and the Net Zero Transition in a Post-Pandemic Environment – the 38<sup>th</sup> International Conference of SEGH</i></li> <li>• '<i>Sustainability</i>' Journal (I.F: 3.3), Special Issue: <i>Trace metals in the urban environment and human health risks</i></li> <li>• '<i>Toxics</i>' Journal (I.F: 3.9): Special Issue: <i>Environmental and Health effects of heavy metal</i></li> </ul>
<b>Membership</b>	<ul style="list-style-type: none"> <li>• Society for Environmental Geochemistry and Health (SEGH, subscribed member)</li> <li>• European Geosciences Union</li> <li>• Geological Society of Greece</li> </ul>
<b>Reviewer</b>	Reviewer for the following <i>international peer-reviewed scientific journals</i> : Environmental Pollution, Environmental Science and Technology, Science of the Total Environment, Applied Geochemistry, Journal of Hazardous Materials, Journal of Geochemical Exploration, Journal of Environmental Management, Ecotoxicology and Environmental Safety, Environmental Science and Pollution Research, Geoderma, Environmental Research, Environmental Monitoring and Assessment, Sustainability, Catena, Pedosphere
<b>Scientific collaborations</b>	<ul style="list-style-type: none"> <li>• Lab of Environmental Chemistry (National and Kapodistrian University of Athens)</li> <li>• Lab of Soil Science and Agricultural Chemistry (Agricultural University of Athens)</li> <li>• Department of Environmental Geosciences (Czech University of Life Sciences, Prague)</li> <li>• Department of Soil Science and Plant Nutrition (Çanakkale Onsekiz Mart University, Turkey)</li> <li>• Isotope Bioscience Laboratory, Department of Green Chemistry and Technology, Ghent University, Belgium</li> <li>• Lithosphere Fluid Research Lab (Eötvös University, Hungary)</li> <li>• Department of Geoscience (University of Aveiro, Portugal).</li> </ul> <p>The outcome of these collaborations is the publication of results in well-established peer-reviewed journals (e.g. Science of the Total Environment, Environmental Pollution, Applied Geochemistry, Ecotoxicology and Environmental Safety)</p>

#### 5 TEACHING ACTIVITIES

<b>2014 - present</b>	Undergraduate courses (Department of Geology & Geoenvironment, National and Kapodistrian University of Athens): <i>Environmental Geology</i> (mandatory), <i>Geochemistry</i> (mandatory), <i>Environmental Geochemistry</i> (optional- <b>coordinator</b> ), <i>Hydrogeochemistry</i> (optional), <i>Analytical and Isotopic Geochemistry</i> (optional).
<b>2018 - present</b>	Postgraduate courses (Department of Geology & Geoenvironment, National and Kapodistrian University of Athens): <i>Risk Assessment of Pollution</i> ( <b>coordinator</b> ), <i>Geochemistry Special Issues</i>
<b>2018 - present</b>	Delivery of Lectures at the Agricultural University of Athens (Course: Environmental Geology - Geochemistry)
<b>2021 - present</b>	Delivery of Lectures at the University of Thessaly (Course: Pollution, Protection and management of aqueous ecosystems)

## 6 SUPERVISION

<b>2022 - present</b>	<p>PhD thesis (<b>advisor committee</b>):</p> <ul style="list-style-type: none"> <li>- Konstantinos Georgiou (in progress): Environmental and geochemical research in surface sediments of Pagasitikos gulf and the effects to the environment - Department of Ichthyology &amp; Aquatic Environment, University of Thessaly</li> <li>- Artemis Kontomichalou (in progress): Soil baseline geochemistry of Hellas: Setting the foundation of a structured national soil database for resource assessment and environmental management</li> </ul>
<b>2021 - present</b>	<p><b>Supervision</b> of Master Thesis:</p> <ul style="list-style-type: none"> <li>- Anna Balasova (in progress).</li> <li>- Artemios Roussos (in progress).</li> <li>- Christina Antonopoulou (2023). Tracing nitrogen sources and transformations by using the nitrate dual isotopic composition of groundwaters from Atalanti, Fthiotida, Greece.</li> </ul>
<b>2021 - present</b>	Supervision of 13 undergraduate research dissertations ( <b>completed</b> ) and 3 dissertations in progress

## 7 RESEARCH GRANTS

Project Title	Funding source	Period	Role
Cr(VI) Impacted water bodies in the Mediterranean: Transposing management options for Efficient water Resources use through an Interdisciplinary Approach	EU through the Greek Secretariat for Research and Technology	2016-2019	Researcher
Geochemical and environmental characteristics of Athens soil, focusing on potentially harmful elements mobility and bioaccessibility	John S. Latsis Public Benefit Foundation	2013-2014	Researcher



## 8 FELLOWSHIPS AND AWARDS

2018	<b>Fellowship</b> from the Tempus Public Foundation (Hungary): Scientific visit (2 weeks period) to <b>Eötvös University Budapest</b> (Lithosphere Fluid Research Lab, Department of Petrology and Geochemistry, Institute of Geography and Earth Sciences) under the supervision of Professor Csaba Szabó. Output of this collaboration was the publication by Kelepertzis et al., 2019, in <i>Environmental Pollution Journal</i> (Impact Factor 2021: 9.988)
2017	<b>Award (Louka Mousoulou): Academy of Athens</b> for the publication in the scientific field of mining engineer – mineral resources: The origin and archaeometallurgy of a mixed sulphide ore for copper production on the Island of Kea. Pelton, A., Stamatakis, M., Kelepertzis, E., Panagou, A., <i>Archaeometry</i> , 57, 318-343. <a href="https://doi.org/10.1111/arc.12080">https://doi.org/10.1111/arc.12080</a>
2016	<b>Personal Award (Konstantinos Ktenas): Academy of Athens</b> for <i>the innovative publication</i> of mineralogical context: Origin, mineral speciation and geochemical baseline mapping of Ni and Cr in agricultural topsoils of Thiva valley (central Greece). Kelepertzis, E., Galanos, E., Mitsis, I., <i>Journal of Geochemical Exploration</i> , 125, 56-68, 2013. <a href="https://doi.org/10.1016/j.gexplo.2012.11.007">https://doi.org/10.1016/j.gexplo.2012.11.007</a>
2015	<b>Fellowship</b> (bilateral educational program between Greece and Czech Republic): Scientific visit (10 days period) to <b>Czech University of Life Sciences Prague</b> (Faculty of Environmental Sciences, Department of Environmental Geosciences), under the supervision of Professor Michael Komárek. Output of this collaboration was the publication by Kelepertzis et al., 2016, in <i>Environmental Pollution Journal</i> (Impact Factor 2021: 9.988)
2004 - 2005	Scholarship by the <b>National Scholarship Foundation of Greece</b> for postgraduate studies abroad in geological sciences