

CURRICULUM VITAE
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Personal Details

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Education

1981 - 1985: PhD University of Athens, Department of Chemistry Thesis in collaboration with National Research Centre "Demokritos" (4-year Scholarship: Greek Atomic Energy commission)
1975 - 1981: University of Athens, Department of Chemistry
1969 - 1975: Secondary School in Athens (Greece)

Carrier

2006-present: Professor (Analytical Chemistry), Technical University of Crete, Department of Mineral Resources Engineering and Department of Sciences
2001-2006: Associate Professor, Technical University of Crete (Department of Sciences)
1995-2001: Assistant Professor, Technical University of Crete (Department of Sciences)
1992-1995: Lecturer in the Technical University of Crete (Department of Sciences)
1990-1992: Post Doctoral Researcher in the National Research Centre "Demokritos" (Institute of Nuclear Technology and Radiation Protection, Environmental Radiation Laboratory).
1990-1990: Greek Chemical Company "G.K. Chemotechnical Products"
1987-1989: NRC "Demokritos" and Numismatic Museum of Athens (common research project, supported by the Greek Secretariat of Research and Technology)
1985 - 1987: Military Service

Teaching Experience

Undergraduate and Graduate level: Analytical Chemistry, Inorganic Chemistry and Physical Chemistry.

Publications

Publications in international peer-reviewed Journals

1. Xarchoulakos, Dimitrios, Manoutsoglou Emmanouil, Kallithrakas-Kontos Nikolaos, *Distribution of uranium isotopes, ²¹⁰Pb and ²¹⁰Po in groundwaters of Crete- Greece*, Journal of Radioanalytical and Nuclear Chemistry 331 (2022) 4685 – 4694, DOI 10.1007/s10967-022-08578-6
2. Xarchoulakos, Dimitrios and Kallithrakas-Kontos, Nikolaos, *Uranium analysis in urine after membrane complexation and alpha spectrometry counting*, Journal of Radioanalytical and Nuclear Chemistry 331 (2022) 283-288, DOI 10.1007/s10967-021-08059-2
3. Theologitis, A., Kapridaki, C., Kallithrakas-Kontos, N., Maravelaki-Kalaitzaki, P., Fotiou, A., Mortar and plaster analysis as a directive to the design of compatible restoration materials in frangokastello (Crete), Mediterranean Archaeology and Archaeometry 21 (2021) 105-116. DOI: 10.5281/zenodo.4284427
4. Kallithrakas-Kontos, N., Boultadaki, P., Foteinis, S., *A dataset of 112 ligands for the preconcentration of mercury, uranium, lanthanum and other pollutants and heavy metals in water*, Data in Brief , **29**, (2020), Article number 105236

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5. Fotiou, A., Oiry, C., Kapetanaki, K., Perdikatsis, V., Kallithrakas-Kontos, N., Maravelaki, P.-N., *Ecological restoration plasters and mineral pigments designed with raw material from the island of gavdos*, *Infrastructures* **5** (2020) Article number 110, Pages 1-23, DOI: 10.3390/infrastructures5120110
 6. Orfanoudaki, A., Makridakis, G., Maragkaki, A., Fountoulakis, M.S, Kallithrakas-Kontos, N.G., Manios, T., *Anaerobic Co-digestion of Pig Manure and Spent Coffee Grounds for Enhanced Biogas Production*, *Waste and Biomass Valorization* **11** (2020) 4613-4620 DOI: 10.1007/s12649-019-00796-6
 7. Fotiou, Afroditi, Oiry Claire, Kapetanaki Kalia, Perdikatsis Vassilis, Kallithrakas-Kontos Nikolaos, Maravelaki Noni-Pagona, *Ecological restoration mortars and plasters designed with raw material from the island of Gavdos*, *REHABEND* 2020, Code 253609 1482-1489
 8. Foteinis, S., Kallithrakas-Kontos, N., Kolovou, M., Nikolaki, M., Takoudis, G., Potiriadis, C., Skanavis, V., Kalligeris, N., Housiadas, C., Synolakis, C.E., *Spatial and Temporal Heterogeneity of ¹³⁴Cs and ¹³⁷Cs in Topsoil after the Fukushima Daiichi Nuclear Power Plant Accident and the Importance of Tsunami Debris Management*, *Environmental Processes* **6** (2019) 561-579 DOI: 10.1007/s40710-019-00386-7
 9. Nikolaos Kallithrakas-Kontos, Spyros Foteinis,, Eleftheria M. Vazgiouraki, Andreas G. Karydas, János A. Osán, Efthalia Chatzisyneon, *Solid-state polymer membranes for simple, sensitive, and low-cost monitoring of mercury in water*, *Science of The Total Environment* (2019) 134099 (7 p.p.), DOI: 10.1016/j.scitotenv.2019.134099
 10. Kapridaki, C., Xynidis, N., Vazgiouraki, E., Kallithrakas-Kontos, N., Maravelaki-Kalaitzaki, P., *Characterization of photoactive Fe-TiO₂ lime coatings for building protection: The role of Iron content*, *Materials* 2019, **12**, 1847 DOI:10.3390/ma12111847
 11. Orfanoudaki, A., Makridakis, G., Maragkaki, A., Fountoulakis, M.S., Kallithrakas-Kontos, N.G., Manios, T., *Anaerobic Co-digestion of Pig Manure and Spent Coffee Grounds for Enhanced Biogas Production*, *Waste and Biomass Valorization* (2019) (8 p.p.) DOI: 10.1007/s12649-019-00796-6
 12. Kallithrakas-Kontos N., Foteinis S., *Simple and low cost dithizone-functionalized polymer membranes as a tool for mercury preconcentration and monitoring in aqueous bodies. Preliminary results using X-ray absorption near-edge structure (XANES)*, *Global NEST* (2019) 471-476 DOI: <https://doi.org/10.30955/gnj.002864>
 13. N. Kallithrakas-Kontos, D.C. Xarchoulakos, P.E. Bouladaki1, C. Potiriadis and K. Kehagia, *Selective membrane complexation of uranium isotopes in water samples*, *Analytical Chemistry* **90** (2018) 4611-4615 DOI: 10.1021/acs.analchem.7b05115
 14. Marguí, E., Queralt, I., Guerra, M., Kallithrakas-Kontos, N. *Mercury determination at trace levels using membrane preconcentration and benchtop total reflection X-ray fluorescence analysis*, *Spectrochimica Acta – Part B Atomic Spectroscopy*, **149** (2018) 84-90, DOI: 10.1016/j.sab.2018.07.020
 15. Marguí, E., Hidalgo, M., Migliori, A., Leani, J.J., Queralt, I., Kallithrakas-Kontos, N., Strelis, C., Karydas, A.G., *A first evaluation of the analytical capabilities of the new X-ray fluorescence facility at International Atomic Energy Agency-Elettra Sincrotrone Trieste for multipurpose total reflection X-ray fluorescence analysis*, *Spectrochimica Acta - Part B Atomic Spectroscopy*, **145** (2018) 8-19 DOI: 10.1016/j.sab.2018.03.016
 16. Lykaki, M., Pachatouridou, E., Carabineiro, S.A.C., Iliopoulou, E., Andriopoulou, C., Kallithrakas-Kontos, N., Boghosian, S., Konsolakis, M., *Ceria nanoparticles shape effects on the structural defects and surface chemistry: Implications in CO oxidation by Cu/CeO₂ catalysts*, *Applied Catalysis B: Environmental*, **230** (2018) 18-28, DOI: 10.1016/j.apcatb.2018.02.035
 17. Dimitrios C. Xarchoulakos, Konstantina Kehagia, Nikolaos Kallithrakas-Kontos and Constantinos Potiriadis, *Disequilibrium of dissolved ²³⁴U/²³⁸U and ²¹⁰Po/²¹⁰Pb in Greek rivers*, *Journal of Radioanalytical and Nuclear Chemistry* **312** (2017) 285–292

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 19. Constantinos V. Chrysikopoulos, Nikolaos P. Sotirelis and Nikolaos G. Kallithrakas-Kontos, Cotransport of Graphene Oxide Nanoparticles and Kaolinite Colloids in Porous Media, *Transp Porous Med* **119** (2017) 181–204
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 20. Nikolaos Kallithrakas-Kontos, Spyros Foteinis, Katherine Paigniotaki and Minos Papadogiannakis, *A robust X-Ray Fluorescence technique for multi-elemental analysis of solid samples*, *Environmental Monitoring and Assessment*, **188** (2016) Article number 120, 1-10
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 21. Nikolaos Kallithrakas-Kontos and Spyros Foteinis, *Recent Advances in the Analysis of Mercury in Water - Review*, *Current Analytical Chemistry*, **12** (2016) 22-36.
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 23. Spyros Foteinis, Katerina Mpizoura, Giorgos Panagopoulos, Efthalia Chatzisyneon, Nikolaos Kallithrakas-Kontos, Emmanouil Manutsoglu, *A novel use of the caesium-137 technique to estimate human interference and historical water level in a Mediterranean Temporary Pond*, *Journal of Environmental Radioactivity*, **127** (2014) 75-81.
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 24. Spyros Foteinis, Nikolaos G. Kallithrakas-Kontos, Costas Synolakis, *Opportunistic Beach Nourishment and Heavy Metal Distribution in Coastal Sediment Compartment, the Case Study of Chania Prefecture in Greece*, *The Scientific World Journal*, vol. **2013** (2013), Article ID 472149, 5 pages
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67. Nikolaos G. Kallithrakas-Kontos and Ioanna-Nikol I. Aretaki, *Gold analysis after nanoparticle adsorption on quartz reflectors and Total Reflection X-Ray Fluorescence (TXRF) analysis*, Chapter in the book: *New Developments in Quartz Research: Varieties, Crystal Chemistry and Uses in Technology*, Nova Science Publishers, Inc., NY 2012
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International Conferences Proceedings

70. Georgia Vlamaki and Nikolaos Kallithrakas-Kontos, *Analysis of Platinum Group Elements after Membrane Complexing and X-Ray Analysis*, European Conference on X-ray Spectrometry 2022, EXRS-2022, 26 June- 1July, Bruges, Belgium <https://www.uantwerpen.be/en/conferences/exrs/>
71. Nikolaos Kallithrakas-Kontos and Roumpini Moschochoritou, *Kernel and olive oil analysis by EDXRF*, European Conference on X-ray Spectrometry 2022, EXRS-2022, 26 June- 1July, Bruges, Belgium <https://www.uantwerpen.be/en/conferences/exrs/>
72. Nikolaos Kallithrakas-Kontos, Vasilios Hatzistavros and Spyros Foteinis, *Lanthanum analysis using selective membrane complexation and energy dispersive X-ray spectrometry*, 18th International Conference on Total Reflection X-ray Fluorescence Analysis and Related Methods (TXRF-2019), 25-28 June 2019, University of Girona, Spain <http://www.txrf2019.com/>
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75. Nikolaos G. Kallithrakas, *Uranium analysis in aqueous solutions by XRF spectroscopy*, 35th International Conference on Solution Chemistry, 26-30 August 2018, Szeged, Hungary

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76. Kallithrakas-Kontos N, Fragkos A, EDXRF Analysis of High Absorbance Samples by Liquid Analysis, 11th Aegean Analytical Chemistry Days (AACD2018), 25-29 September 2018, Chania, Crete, Greece, http://195.134.76.37/AACD2018/AACD2018_PROGRAM.pdf
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Citations

More than 1500 citations in international peer reviewed journals (Scopus Database), h-index: 18

Refereeing for International Journals

Nature Communications	Journal of Environmental Management
Analytical Chemistry	Journal of Molecular Structure
Analytica Chimica Acta	Journal of Radioanal. and Nuclear Chemistry
Analytical Letters	Journal of the American Chemical Society
Applied Radiation and Isotopes	Microchimica Acta
Archaeological and Anthropological Sciences	Mineralogical Magazine
Environmental Chemistry	Nuclear Instruments and Methods
Environmental Pollution	Spectrochimica Acta
Food Analytical Methods	Surface Coating and Technology
Fresenius Environmental Bulletin	Talanta
International Journal of Environ. Chemistry	The Scientific World Journal
Industrial Engineering Chemical Research	X-Ray Spectrometry
Journal of Analytical Atomic Spectrometry	
Journal of Chemical Education	

Participation in International Conferences

Participation in more than 70 International Conferences with presentations.

Conference Organizing / Scientific Committee

13th International Conference on Instrumental Methods of Analysis: Modern Trends and Applications Chania, Crete | September 17-20, 2023 <http://aclab.web.auth.gr/ima2023/>

11th International Conference on “Instrumental Methods of Analysis, September 22-25, 2019 Ioannina, Greece, <http://www.conferre.gr/congress/ima2019/orgcom.aspx>

1st International Conference on Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage (TMM_CH), Athens, Greece, 10-13 October 2018
https://tmm-ch2018.com/files/TMM_CH_Steering_Committee.pdf

11th Aegean Analytical Chemistry Days (AACD2018), 25-29 September 2018, Chania, Crete, Greece
http://195.134.76.37/AACD2018/AACD03_scient_comm.htm

International Scientific Committee: 10th International Conference Instrumental Methods of Analysis - Modern Trends and Applications, 17-21 September 2017, Heraklion, Crete Greece
<http://www.ima2017.gr/international.htm>

Workshop on Ions for cancer therapy, space research and material science, 26-30 August 2017, Chania Greece, <https://indico.cern.ch/event/559908/page/8026-organization>

5th International Conference on New Frontiers in Physics (ICNFP 2016), 6-14 July 2016, Kolymbari, Crete, Greece <https://indico.cern.ch/event/442094/>

International Scientific Committee: 9th International Conference Instrumental Methods of Analysis - Modern Trends and Applications, 20-24 September 2015, Kalamata, Greece
<http://www.ima2015.teikal.gr/index.php/organizers/scientific-committee>

Local Organizing Committee: 4th International Conference on New Frontiers in Physics, 24-30 August 2015, Kolymbari, Crete, Greece <http://indico.cern.ch/event/344173/page/3382-organisation>

International Scientific Committee: 8th International Conference Instrumental Methods of Analysis - Modern Trends and Applications, 15-19 September 2013, Thessaloniki, Greece
<http://ima2013.web.auth.gr/organizing.htm>

Organizing Committee Chairperson (with Dr. P. Kefalas): 7th International Conference Instrumental Methods of Analysis - Modern Trends and Applications 18-22 Sept. 2011, Chania, Greece
http://www.maich.gr/ima2011/org_committee.html

Scientific Advisory Committee: 10th European Conference on Accelerators in Applied Research and Technology, 13-17 September 2010, Athens, Greece <http://www.scribd.com/doc/39538898/Book-of-Abstracts-ECAART10#scribd>

International Scientific Committee: 7th Aegean Analytical Chemistry Days, 29 September - 3 October 2010, Lesvos, Greece http://www.chem.uoa.gr/AACD2010/AACD03_scientific_com.htm

International Scientific Committee: 6th International Conference Instrumental Methods of Analysis - Modern Trends and Applications, 4-8 October 2009, Athens, Greece
http://www.chem.uoa.gr/ima2009/IMA_03_scientific_com.htm

PhD Student Supervision

PhD students supervised: six (6)

Principal Investigator

Principal investigator and Research Team member in numerous research projects concerning analytical chemistry, nuclear analytical techniques etc.

Positions of Responsibility

- December 2017 – December 2022 vice-Rector of Finance, Planning and Development of the Technical University of Crete <https://www.tuc.gr/index.php?id=4813>
- December 2017 - present: vice-Chairman of the Greek Atomic Energy Commission
<https://eeae.gr/en/eeae/organization-and-management/the-board>
- March 2001 - present: Head of the Analytical and Environmental Chemistry Lab. of the Technical University of Crete
https://www.tuc.gr/index.php?id=5643&tx_tuclabspersonnel_pi3%5Blabid%5D=59
- February 2013 - August 2017: member of the Council of the Technical University of Crete
- October 2007 - May 2013: member of the Research Committee of the Technical Univ. of Crete
- September 2003 - August 2007: Chairman of the Department of Sciences of the Technical University of Crete
- September 2011- May 2013: vice-Chairman of the Department of Sciences of the Technical University of Crete
- September 2001 – August 2003: vice-Chairman of the Department of Sciences of the Technical University of Crete
- 2014 - 2017: Head of the committee of the post-graduate programme: “*Geo-technology and Environment*” School of Mineral Resources Engineering, Technical University of Crete
- January 2008 - May 2013: Head of the committee of the post-graduate programme of the Department of Sciences, Technical University of Crete

Languages: Greek (mother tongue), English