

CURRICULUM VITAE

NAME	KAPNISTI MARIA CHEMIST, M.SC., PhD		
STATUS	ASSISTANT PROFESSOR DEPT. OF FOOD TECHNOLOGY TECHNOLOGICAL EDUCATIONAL INSTITUTION OF THESSALONIKI		
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RESEARCH INTERESTS	<ul style="list-style-type: none"> • Synthesis and characterization of sorbent materials • Study of heavy metal and radionuclides sorption • Synthesis of complex compounds • Food analysis • Analysis and qualitative characterization of wine • Material technology 		

1. Studies

Degree	Year	Institution and title
PhD in Chemistry	2015	Aristotle University of Thessaloniki (Thessaloniki, Greece), Dept of Chemistry Doctoral Thesis in General and Inorganic Chemistry titled: “Synthesis, characterization and study of amorphous and crystalline modified sorbents based on titanium phosphate compounds for the retention of heavy metal and radionuclide from aqueous solutions”
MSc in Chemistry	2004	Aristotle University of Thessaloniki (Thessaloniki, Greece), Dept of Chemistry Master Degree in General and Inorganic Chemistry
Diploma in Chemistry	1988	Aristotle University of Thessaloniki (Thessaloniki, Greece), Dept of Chemistry

2. Academic Teaching experience

Institution	Position	Years	Lessons
A.T.E.I. of Thessaloniki , Dept of Food Technology	Professor of Applications	2013-2015	Food analysis laboratory exercises (Dept of Food Technology) Food chemistry laboratory exercises (Dept of Food Technology) Chemical Technology (Dept of civil engineering) Material Technology (Dept of civil engineering & Dept of automotive engineering) General chemistry laboratory exercises (Dept. of Nutrition & Dietetics)
A.T.E.I. of Thessaloniki , General Department of Sciences	Professor of Applications	2010-2013	Chemical Technology (Dept of civil engineering) Material Technology (Dept of civil engineering & Dept of automotive engineering) Chemistry (Dept.of Aesthetics and Cosmetology)
A.T.E.I. of Thessaloniki , General Department of Sciences	Teaching assistant	1999-2010	Chemical Technology (Dept of civil engineering) Material Technology (Dept of civil engineering & Dept of automotive engineering)

			Chemistry (Dept.of Aesthetics and Cosmetology) Environmental Chemistry I and II (Extended University Program on Environmental Technology)
T.E.I. of Western macedonia - General Department of Sciences	Teaching assistant	1996-1997	Chemical Technology (Dept of Mechanical engineering) Specific Chemistry laboratory exercises (Dept of Mines) Electrochemistry laboratory exercises (Dept of Electrical Engineering)

3. Research Programms

Institution	Position	Years	Programm
A.T.E.I. of Thessaloniki, General Department of Sciences	Scientific Responsible	2012	"Preparation and study of novel biodegradable/biocompatible nanocomposite materials", Funded by the Alexander Technological Educational Institute of Thessaloniki.
A.T.E.I. of Thessaloniki, General Department of Sciences	Research associate	2011-2012	"Physico-chemical and biological parameters of the marine environment of the Municipality of Katerini", Scientific Responsible: Vosniakos F., Funded by the Alexander Technological Educational Institute of Thessaloniki.
A.T.E.I. of Thessaloniki, General Department of Sciences	Research associate	2003-2006	"Contribution to the study of diffusion conditions of gaseous pollutants and the creation of air pollution episodes in the region of Thessaloniki", Scientific Responsible: Zoumakis N., Funded by the Archimedes project
A.T.E.I. of Thessaloniki, General Department of Sciences	Research associate	2004-2007	"Impact on the four-stroke diesel engine operation and on the environment from the use of oil mixtures with vegetable oils", Scientific Responsible: Triantafyllis I., Funded by the Archimedes project

4. Work experience

Company	Years	Responsibilities
"J. Boutaris & Son - Winemaking Industry A.E." As a supervisor of the Chemical laboratory	1987-1995	<ul style="list-style-type: none"> • Certification of all analyses of wines, carried out in the laboratory. • Laboratory testing of raw material and waste from the factory. • Checking and recording the analyses results. • Responsibility for the proper operation of laboratory analyzers such as: PH-meters, flame photometer, spectrophotometer, microscope, infra-red analyzer InfraAlyzer 260 for automatically identifying alcohol and sugars, automatic analyzer SKALAR. • Installation in the laboratory and testing of the quality system ISO 9002 • Active participation in the wine-making process. • Participation in the company's Research & Development program.
Professional training national Center "Macedonia"	1995-1997	As Director of Studies and rapporteur on the following seminars on "quality control"and on "Processing - Standardization of Agricultural Products."

Analytical Laboratory AGROLAB As Head of the Food and Water Laboratory	1997- 2000	<ul style="list-style-type: none"> • Responsibility for the operation of the laboratory of food and water. The role of the laboratory is to check and conduct the analyses required in commercial samples of foodstuffs, water and waste. • Responsibility for the operation of analytical instruments of the laboratory, among which are included the atomic absorption spectrophotometer, digesting devices of protein and fiber, extraction devices, etc. • Checking, recording and signing of results. • Monitoring implementation and enforcement of the national and Community programs in which the company was involved. • Implementing quality systems (GLP)
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5. Supervision experience

1. Undergraduate student thesis with title: «Effect of humidity on the properties of wood and its protection with the use of varnishes», **2013** Dept. of Civil Engineering, A.T.E.I. of Thessaloniki
2. Undergraduate student thesis with title: «Study of cadmium retention from aqueous solutions with the use of inorganic synthetic sorbents», **2015** Dept. of Food Technology, A.T.E.I. of Thessaloniki

6. Affiliations

- Licence of the A Class Oinologist profession (1989).
- Member of the Greek Chemists' Union with registration number 6790.
- Member of the Chemists' Association
- Member of the Greek Oinologists' Union.

7. Languages

- English (First Certificate)
- German (Mittelstufe)

8. Teaching notes

- “Notes on Chemistry laboratory experiments” 2001 for the students of Dept. of civil engineering
- “Environmental chemistry notes I” 2000 for the students of the Extended University Program on Environmental Technology
- “Environmental chemistry notes II” 2000 for the students of the Extended University Program on Environmental Technology
- “Notes on Chemical technology laboratory experiments” 2012 for the students of Dept. of civil engineering
- “Notes on Material technology laboratory experiments” 2012 for the students of Dept. of civil engineering

9. Publications

1. M.G. Kapnisti, F.G. Noli, J. Arvanitidis, A.G. Hatzidimitriou, “Thermally modified molybdenum oxide as a potential sorbent for the removal of metal cations from aqueous solutions”, *J Radioanal Nucl Chem* (2015) 1-11
2. M. Kapnisti, A. Hatzidimitriou, F. Noli, E. Pavlidou, “Investigation of Cesium uptake from aqueous solutions using new titanium phosphate ion-exchangers”, *J Radioanal Nucl Chem* (2014) 302:679–688
3. G.Z. Papageorgiou, Z. Terzopoulou, D.S. Achilias, D. N. Bikiaris, M. Kapnisti, D. Gournis, “Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics” *Polymer*, 54,17:4604-4616 (2013)

4. Zoumakis, M., Kassomenos, P., Petrakakis, M., Zoumakis, N., Bournis, N., Kelessis, A., Papadakis, N., Patronas, D. "Human discomfort due to environmental conditions in urban Thessaloniki, Greece. Part II. Thermal stress levels", *Journal of Environmental Protection and Ecology* 12, 2:457-462 (2011)
5. M. Zoumakis, M. Petrakakis, P. Kassomenos, A. Kelessis, N. Bournis, N. Zoumakis, N. Papadakis, F. Vosniakos, M. Staliopoulou, G. Efstathiou, TH. Kozyraki, M. Kapnisti, D. Patronas, "Human discomfort due to environmental conditions in urban Thessaloniki, Greece. Part I. Air quality stress levels", *Journal of Environmental Protection and Ecology* 12, 2: 407-415, (2011)
6. M. Kapnisti, A.G. Hatzidimitriou, "Synthesis and characterization of copper(II) chelate with a new substituted bis(2-pyridyl)-amine derivative", *Struct. Chem.* 18, 331-335 (2007)
7. A.G. Hatzidimitriou, M. Kapnisti and G. Voutsas, "Crystal structure of bis((pyridyl)amino-iodobenzene)disulfatodicopper(II) methanol disolvate, $\text{Cu}_2(\text{C}_{16}\text{H}_{12}\text{IN}_3)_2(\text{SO}_4)_2 \cdot 2\text{CH}_3\text{OH}$ ", *Z. Kristallogr. NCS* 221, 532-534 (2006)

10. Scientific Congresses

1. M. Kapnisti, F. Noli, A. Hatzidimitriou, "Study of Uranium removal from acidic solutions by titanium phosphates", **12th Greece-Cyprus Conference, Thessaloniki, 8-10 May, 2015**
2. M. Kapnisti, F. Noli, A. Hatzidimitriou, "Eu-sorption from aqueous solutions by amorphous titanium phosphates using γ -ray spectroscopy", **23rd Hellenic Nuclear Physics Society Symposium, Thessaloniki, 20-21 June 2014**
3. F. Noli, M. Kapnisti, A. Hatzidimitriou, "Use of inorganic sorbent materials for the removal of radionuclides and heavy metal ions", **1st Hellenic Waste Mining Conference, Thessaloniki, 16 September 2014**
4. M.G. Kapnisti, A.G. Hatzidimitriou, F. Noli, E. Pavlidou, "Radionuclides and heavy metals removal from aqueous solutions by amorphous titanium phosphates". **5th Environmental Conference of Macedonia, Thessaloniki, 2014.**
5. George Z. Papageorgiou, Dimitrios N. Bikiaris, Zoe Terzopoulou, Dimitris S. Achilias, Maria Kapnisti, Ioannis Arvanitidis, Dimitrios Gournis, "Preparation and thermal behavior of Poly(ethylene succinate)/Graphene Oxide nanocomposites". **9th Hellenic Polymer Society Conference, Thessaloniki, 2012.**
6. G.Z. Papageorgiou, D.N. Bikiaris, D.S. Achilias, M. Kapnisti, "Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics "Thermal properties and biodegradation of poly(ethylene sebacate) and poly(ethylene azelate)". **5th Hellenic Conference on thermal analysis and calorimetry, Therma, 25-27 May, Thessaloniki, 2012.**
7. M.G. Kapnisti, K. Filintoglou, E. Papastergiadis, I. Arvanitidis, A.G. Hatzidimitriou, "Thermally modified molybdenum oxides for the retention of toxic heavy metal cations from the environment". **5th Hellenic Conference on thermal analysis and calorimetry, Therma, 25-27 May, Thessaloniki, 2012.**
8. M. Kapnisti, S. Skoulika A. Hatzidimitriou, "Approach of light-excited molecular switches. Synthesis, structure and properties of the bipyridylbenzonitrile (BPABN) and its monodentate and bidentate ruthenium complexes". **8th Greece-Cyprus conference "Chemistry, Life Quality and Education", 10-14 December, Thessaloniki 2004.**