Angeliki A. Galani
Chemist PhD
Laboratory Teaching Staff of Chemistry
Department of Environmental Engineering, Polytechnic School, University of Patras

Curriculum Vitae

Photo

PERSONAL INFORMATION

First name / Surname:	**Dr. Angeliki Galani**
Office Address:	G. Seferi 2, 30100, Aginio Greece
Telephone(s) Office:	+30 26410 74181
E-mail:	angalani@upatras.gr
Nationality:	Greek

STUDIES

First Degree

Title	Bachelor's degree in Chemistry
Country:	Greece
University	University of Ioannina
School – Dept.:	Chemistry
Year of beginning:	1985
Year of graduation:	1990

Ph.D. Thesis

Graduate Scholarship

Subject:	"Effects of biologically active factors on zinc transport across the red cell"
Country:	Greece
University	The University of Ioannina
School – Dept.:	Medical School
Laboratory:	Experimental Physiology
Year of beginning:	1991
Year of graduation:	1996

PROFESSIONAL EXPERIENCE

1997 - 2000	**Research Fellow** Technological Educational Institute of Epirus
2000 – 2004	**Adjunct Lecturer** Department of Environmental and Natural Resources

	Management, University of Ioannina, Greece
2004	**Research Fellow** Technological Educational Institute of Epirus
2005 – 2014	**Special Laboratory and Teaching Staff of Chemistry** Elected by the University Senate of Ioannina having been judged. (9 other candidates with PhD or Master)
2005 – 2008	Department of Environmental and Natural Resources Management, and Department of Business Administration of Food and Agricultural Enterprises, University of Ioannina,
2008 – 2011	Department of Environmental and Natural Resources Management, University of Ioannina
2011 – 2013	Department of Environmental and Natural Resources Management, University of Western Greece
2013 – 2014	Department of Environmental and Natural Resources Management, University of Patras
2014 – today	**Laboratory and Teaching Staff of Chemistry**
2014-May 2019	Department of Environmental and Natural Resources Management, Polytechnic School, University of Patras, Greece
May 2019-today	Department of Environmental Engineering, Polytechnic School, University of Patras

TEACHING EXPERIENCE

1. INDEPEND TEACHING

2000 – 2004: **ADJUNCT LECTURER**

Department of Environmental and Natural Resources Management, University of Ioannina

Main Courses

– General Inorganic Chemistry
– Organic Chemistry

Laboratory Exercises

– Organic Chemistry

1997 -2000 and 2004: **RESEARCH FELLOW**

Technological Educational Institute of Epirus

Main Courses

– General Chemistry
– Analytical Chemistry

Laboratory Exercises

– General Chemistry
– Analytical Chemistry

2017-2018: **LABORATORY TEACHING STAFF OFCHEMISTRY**

Department of Environmental and Natural Resources Management, Polytechnic School, University of Patras

Laboratory Exercises

– Physical Chemistry

2018-2019: **LABORATORY TEACHING STAFF OFCHEMISTRY**

Department of Environmental and Natural Resources Management, Polytechnic School, University of Patras

Main Courses

– Environmental Chemistry – Geochemistry
– Organic Chemistry

Laboratory Exercises

– Environmental Chemistry – Geochemistry
– Physical Chemistry
– Organic Chemistry

2019-2020-today: **LABORATORY TEACHING STAFF OFCHEMISTRY**

Department of Environmental Engineering, Polytechnic School, University of Patras

Main Courses and Laboratory Exercises

– General Chemistry – Inorganic Chemistry
– Environmental Chemistry – Environmental Geochemistry
– Organic Chemistry

Laboratory Exercises

– Physical Chemistry-Thermodynamics

2. PARTICIPATION IN TEACCHING

2000 – 2004: **ADJUNCT LECTURER**

Department of Environmental and Natural Resources Management, University of Ioannina

Laboratory Exercises

– Physical Chemistry

(Responsible of the Course Prof. I. Deligiannakis)

3. TEACHING UNDER THE SUPERVITION OF THE COURCE RESPONSIBLE PROFESSOR

2006 – 2009: **SPECIAL LABORATORY AND TEACHING STAFF OF CHEMISTRY**

Department of Environmental and Natural Resources Management, University of Ioannina

Main Courses

– General Inorganic Chemistry

(Responsible of the Course Professor Maria Papadaki)

4. Co – TEACHING UNDER THE SUPERVITION OF THE COURCE RESPONSIBLE PROFESSOR

LABORATORY TEACHING STAFF OF CHEMISTRY

Department of Environmental and Natural Resources Management, University of Ioannina

Main Courses

2014-2017:
– *Environmental Chemistry – Geochemistry*

(Responsible of the Course Professor Maria Papadaki)

2017-2018:
– *Environmental Chemistry – Geochemistry*

(Responsible of the Course Professor Panagiota Michalakakou

– Organic Chemistry

(Responsible of the Course Professor Vagelis Papadakis)

5. LABORATORY EXERSISES

2005 – 2019: **LABORATORY TEACHING STAFF OF CHEMISTRY**

Department of Environmental and Natural Resources Management, University of Ioannina, University of Western Greece, University of Patras

Laboratory Exercises

2005 - 2007: – *Mineral resources and their management*
2005- 2012: – *Geochemistry*
2005 – 2013: – *Environmental Organic Chemistry*
2005-2015: – *Instrumental Environmental Chemistry*
2014 – today: – *Organic Chemistry*
2005 – 2019: – *Physical Chemistry*
2013-2019: – *Environmental Chemistry – Geochemistry*

Department of Business Administration of Food and Agricultural Enterprises, University of Ioannina, University of Western Greece

Laboratory Exercises

2005 – 2012: – *Organic Chemistry*
2005 – 2011: – *General Chemistry*
2005-2008: – *Nutrition Agricultural Animal*

2019 – today: **LABORATORY TEACHING STAFF OF CHEMISTRY**

Department of Environmental Engineering, Polytechnic School, University of Patras

Laboratory Exercises

– *General – Inorganic Chemistry*
– *Environmental Chemistry- Environmental Geochemistry*
– *Organic Chemistry*
– *Physical Chemistry –Thermodynamics*

ANALYTICAL TECHNIQUES - INSTRUMENTATION TECHNIQUES (LABORATORY TEACHING COURCES AND USING DURING MY PARTICIPATE IN RESEARCH PROJECTS)

- *Atomic Absorption*. (During my PhD thesis). Measuring the concentration of heavy metals and trace elements in biological tissues, biological fluids and water samples)
- *Spectro UV - VIS*, (During my participation in a research project in Chemistry Department of the University of Ioannina. During my participation in the teaching of the Laboratories of Organic Chemistry, Physical Chemistry and Instrumental and Environmental Analysis)
- *Infrared spectrophotometry*. (During my participation in a research program in Chemistry Department of the University of Ioannina)
- *^{1}H-NMR Spectroscopy*. (During my participation in a research project in Chemistry Department of the University of Ioannina. Education in NMR Center of the University of Ioannina and acquiring institution's license type AC-250 NMR.)

- *Determination of activity of superoxide dismutase, (SOD)*, in metal complexes of non-steroidal anti-inflammatory drugs (NSAIDs).(During my participation in a research project in Chemistry Department of the University of Ioannina)
- *Synthesis and spectroscopic characterization of metal complexes with NSAIDs*).(During my participation in a research project in Chemistry Department of the University of Ioannina)
- *Determination of complexes thermodynamic values*. Determination of complexes dissociation constants and of complexes formation constants in aqueous solutions.(During my participation in a research project in Chemistry Department of the University of Ioannina)
- *Protein Electrophoresis* (Seminar at the Pasteur Institute)
- *Study of the acid – base behavior of Amino acids* (During my participation in the teaching of the Laboratory of Organic Chemistry)
- *BOD measurements (BOD_5 test)*. (During my participation in the teaching of the Laboratory of Environmental and Instrumental Analysis)
- *Determination of organic pollutants in water - Solid phase extraction technique* . (During my participation in the teaching of the Laboratory of Environmental Instrumental Analysis)
- *Fat determination with Soxhlet Extraction Apparatus*. (During my participation in the teaching of Nutrition Agricultural Animal Laboratories)
- *Determination of nitrogen by the Kjeldahl method*. (During my participation in the teaching of Nutrition Agricultural Animal Laboratories)
- *Determination of Nitrite in waters by Spectrophotometric Method*. (During my participation in the teaching of the Laboratory of Environmental Instrumental Analysis)
- *Determination of water hardness by complexometric titration*.(During my participation in the teaching of the Laboratory of Environmental Chemistry Geochemistry)
- *Soil Reaction (pH)* . (During my participation in the teaching of the Laboratory of Geochemistry)
- *Determination of Soil Organic Matter by oxidation-reduction titration*. (During my participation in the teaching of the Laboratory of Geochemistry)
- *Determination of Carbonates in soils*. (During my participation in the teaching of the Laboratory of Geochemistry)

RESEARCH INTERESTS

- Applications of Instrumental Analytical Chemistry in environmental systems and in biological systems
- Medical and Pharmaceutical Chemistry
- Environmental Chemistry
- Bioinorganic Chemistry

SEMINARS CERTIFICATE - INSTRUMENTATION CERTIFICATE

- Training program with title “Environmental Management ” Greek Productivity Centre, (ELKEPA), 19/2/91-20/04/91
- Electrophoresis (Seminar at the Pasteur Institute)
- Education in NMR Center of the University of Ioannina . (Type AC-250 NMR)
- Training program, for Laboratory Teaching Staff, (40 teaching hours) - Center For Teaching and Learning University of Patras

PARTICIPATION IN FUNDED RESEARCH PROJECTS

- Contracted the project "SYNTHESIS AND STUDY OF NEW COMPLEXES WITH DRUGS", under the program entitled "SYNTHESIS AND STUDY OF NEW METAL COMPLEXES WITH DRUGS" (No. 1135) (Department of Chemistry, University of Ioannina)

- Contracted the project "DETERMINATION OF THERMODYNAMICALLY PRICES OF OXICAM DISSOCIATION CONSTANT AND OF FIXED CONSTANT COMPLEXES IN SOLUTION " under the program entitled "COMPOSITION, CHARACTERIZATION AND STUDY OF MOLECULAR STRUCTURE AND CHEMICAL ACTIVITY OF ORGANOTINS COMPOUNDS WITH OXICAMS TEAM NON STEROIDAL ANTIINFLAMATORY DRUGS . ONCOLOGY, BIOLOGICAL AND CYTOGENETIC STUDY"(No. 982) (Department of Chemistry, University of Ioannina)
- Contracted the project "SAMPLINGS SUPERVISION AND CONCENTRATING RESULTS", under the program entitled " CLEANING MEASURES OF LACE PAMVOTIS"(No. 721) (University of Ioannina)

RESEARCH ACTIVITY

- **Laboratory of Experimental Physiology, Medical School, University of Ioannina (1991 – 1996)**

Ph.D. Thesis

Research field

– Study of effects of biologically active factors on zinc transport across the red cell membrane.
– Measuring of serum and tissue concentrations of certain metals which are related to tumor grade in transitional cell carcinoma of the bladder
– Measuring of zinc and copper levels in the serum of patients with Stargardt's disease and retinitis pigmentosa and comparing these with the corresponding levels in serum of healthy persons.
– Measuring of Elements mineral levels in natural waters

- **Laboratory of Inorganic Chemistry, Department of Chemistry, University of Ioannina (2000-2005)**

Participation in research projects as a researcher and as a Fellow Research

Research field

– Synthesis and characterization, (physical properties, IR, UV, NMR, spectroscopic studies), of organometallic compounds of Cu, Zn and Sn with non-steroidal anti-inflammatory drugs, NSAIDs.
– Determination of superoxide dismutase-like activity of synthesized compounds.
– Determination of complexes thermodynamic values. Determination of complexes dissociation constants and of complexes formation constants in aqueous solutions

- **Laboratory Instrumental and Environmental Analysis, Department of Environmental and Natural Resources Management, University of Ioannina (2006 – 2010),**

Fellow Research

Research field

– Study and theoretical analysis of the interactions of organic pollutants such as phenols, or pesticides with synthetic liposomes known geometry and composition.
– Study and theoretical analysis of the above interactions in the presence of heavy metals such as Cd, Pb, Hg, Zn, Cu, Cr.

- **Laboratory of Anatomy – Histology – Embryology, Medical School, University of Ioannina,**

Fellow Research ,

Research field

– Study of the effect of cytokines in tumor cells

LANGUAGES

- French (Certificat de Langue Française - Institut français d'Athènes Annexe Ioannina)
- English

COMPUTER KNOWLEDGE

- Use of Microsoft Office, (Word, Excel, Power Point).

- Use of physicochemical data simulation programs and processing results, (FT – IR, UV – Vis, win NMR,)

COURSES NOTES – LABORATORY NOTES

CORSES NOTES

- Angeliki Galani, "General Inorganic Chemistry". Department of Environmental and Natural Resources Management, University of Ioannina, 2001
- University of Patras Open E-class:
  - ✓ https://eclass.upatras.gr/courses/ENV185/
  - ✓ https://eclass.upatras.gr/courses/ENV198/

- **LABORATORY NOTES**
- Angeliki Galani, "Organic Chemistry". Department of Environmental and Natural Resources Management, University of Ioannina, 2001
- Angeliki Galani, "Environmental Organic Chemistry". Department of Environmental and Natural Resources Management, University of Ioannina, 2007
- Kalabrouziotis Ioannis, Galani Angeliki, Kabalaris Ioannis "Laboratory Notes of Geochemistry". Department of Environmental and Natural Resources Management, University of Ioannina, 2012
- Galani Angeliki, Kalabrouziotis Ioannis "Environmental Chemistry – Geochemistry Laboratory Notes". Department of Environmental and Natural Resources Management, University of Patras, 2015
- Galani Angeliki, "Organic Chemistry Laboratory Notes". Department of Environmental and Natural Resources Management, University of Patras, 2015
- University of Patras Open E-class,
  - ✓ https://eclass.upatras.gr/courses/ENV186/
  - ✓ https://eclass.upatras.gr/courses/ENV196/
  - ✓ https://eclass.upatras.gr/courses/ENV194/

PUBLICATIONS

PhD THESIS

A.A. Galani "Effects of biologically active factors on zinc transport across the red cell membrane", Laboratory of experimental physiology, Medical School, University of Ioannina, 1996

PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

- Vasiliki Galani, Papadatos SS, George Alexiou, **Angeliki Galani**, Kyritsis AP,"In Vitro and In Vivo Prclinical Effects of Type I IFNs on Gliomasm' Journal of Interferon & Cytokine Research 37(4):139-146 · January 2017
- Lampri, E.S., Chondrogiannis, G, Ioachim, E., Varouktsi, A., Mitselou, A., **Galani, A.**, Briassoulis, E., Kanavaros, P., Galani, V., " Biomarkers of head and neck cancer, touls or a Gordian knot", International Journal of clinical and Experimental Medicine, Volume 8, Issue 7, 30 July 2015, pages 10340-10357.
- Vasiliki GALANI, George A ALEXIOU, Georgios MILIARAS, Efthymios DIMITRIADIS, Elena TRIANTAFYLLOU, **Aggeliki GALANI,** Anna GOUSSIA, Panagiotis KANAVAROS, Theoni TRANGAS, "Expression of Stem Cell Marker Nestin and MicroRNA-21 in Meningiomas ", Turkish Neurosurgery, 25(4), pp 514-515, 2015-11-11
- D. Kovala-Demertzi, D. Skrzypek, B. Szymanska, **A. Galani**, M.A.Demertzis. "EPR spectroscopic study of a dinuclear copper (II) complex of tolfenamic acid ", Inorganica Chimica Acta, 358 (1), pp 186-190 2005
- **Angeliki Galani**, Dimitra Kovala-Demertzi, Nikolaos Kourkoumelis, Aglaia Koutsodimou, Vaso Dokorou, Zbigniew Ciunik, Umberto Russo and Mavroudis A. Demertzis. " Organotin adducts of

indomethacin : synthesis, crystal structures and spectral characterization of the first organotin complexes of Indomethacin". Polyhedron 23 (2004) 2021-2030.

- Vaso Dokorou, Dimitra Kovala-Demertzi, Jerry P. Jasinsky, **Angeliki Galani**, and Mavroudis A. Demertzis. "Synthesis, Spectroscopic Studies and Crystal Structures of Phenylorganotin Derivatives with [Bis (2,6-dimethylphenyl)amino]benzoicacid. Novel Antituberculosis Agents".Helvetica Chimica Acta, Vol. 87 (2004) 1940-1950.
- Dimitra Kovala-Demertzi, Aglaia Koutsodimou, **Angeliki Galani**, Sotiris K. Hadjikakou, Mavroudis A. Demertzis, Marianna Xanthopoulou, John R. Miller, Christopher S. Frampton. " Crystallographic report: Diphenylbis(Hpiroxicam)tin(IV), [$Ph_2Sn(Hpir)_2$]". Appl. Organometal. Chem. (2004); 18: 501-502.
- Dimitra Kovala-Demertzi, **Angeliki Galani**, Mavroudis A. Demertzis, Stavroula Skoulika, Chronis Kotoglou, "Binuclear copper (II) complexes of tolfenamic " Synthesis, crystal structure, spectroscopy and superoxide dismutase activity" Journal of Inorganic Biochemistry 98 (2004) 358-364.
- **Angeliki Galani**, Mavroudis A. Demertzis, Maciej Kubicki and Dimitra Kovala-Demertzi, "Organotin-Drug Interactions. Organotin Adducts of Lornoxicam, Synthesis and Characterization of the First Complexes of Lornoxicam ", Eur. J. Inorg. Chem. 2003, 1761-1767.
- K. Psilas, V. Kalfakakou, C. Kalogeropoulos, G. Kitsos, E. Zoumpouli, M. Aspiotis and **A. Galani**, " Copper and zinc serum levels in stargardt's disease and retinitis pigmentosa ", Trace Elements and Electrolytes, Vol. 14, No 2, p. 76-81, 1997.

PUBLICATIONS AT INTERNATIONAL CONFERENCES FULL REPORT

- **Angeliki Galani**, Patra Vezyraki, Angelos Evangelou and Vicky Kalfakakou, "Atrial Natriuretic Peptide and Furosemidi effects on zinc transport across red cell membrane ", Metal Ions in Biology and Medicine, San Juan Puerto Rico, USA, 6th International Symposium Vol. 6 2000, p. 144-146
- Dimitris Giannakis, Xenophon Giannakopoylos, Angelos Evangelou, **Angeliki Galani**, and Vicky Kalfakakou, " Bicarbonate effects on Zn, Cu, Cd, Ca, Mg transport in the Rat's isolated urinary bladder ", Metal Ions in Biology and Medicine, 6th International Symposium, San Juan Puerto Rico, USA Vol.6, 2000, p 126-128.
- Vadalouka, V. Kalfakakou, **A. Galani**, " Zn metalopeptidase levels during anaesthesia procedures and pain management ", 9th European Congress of Anaesthesiology, Jerusaleum, Israel, 1994, Highlights in Regional Anaesthesia and Pain Therapy IV : 67 – 69, 1995**.**

PUBLICATIONS AT INTERNATIONAL CONFERENCES WITH SUMMARIES PRACTICES

- Dimitra Kovala-Demertzi, **Angeliki Galani**, Zbigniew Ciunik, Mavroudis A. Demertzis. " Superoxide dismutase mimetic activity of metal complexes of Lornoxicam ", 4th International Biometals Symposium (IBS-4), 3-5 September 2004, Garmisch-Germany.
- **Angeliki Galani**, Dimitra Kovala-Demertzi, Nikolaos Kourkoumelis, Aglaia Koutsodimou, Vaso Dokorou, Zbigniew Ciunik, and Mavroudis A. Demertzis. "Synthesis, crystal structures and spectral characterization of organotin complexes of Indomethacin", Second international Symposium on Bioorganometallic Chemistry, July 14th – 17th, 2004, Zurich-Switzerland.
- D. Kovala-Demertzi, **A. Galani**, D. Skrzypec, M Demertzis. "Superoxide dismutase mimetic activity of a dimmer copper complex of tolfenamic acid ", IV Symposium on Medical Physics, 13-15 November 2003, Ustron-Poland.
- **Angeliki Galani**, Mavroudis A. Demertzis, Maciej Kubicki and Dimitra Kovala-Demertzi, "Synthesis, spectroscopic studies and crystal structures of organotin compounds with lornoxicam", 3rd International Conference of the Chemical Societies of the South-Eastern European Countries on Chemistry in the New Millennium-and Endless Frontier, September 22-25, 2002, Bucharest, Romania.
- **Angeliki Galani**, Mavroudis A. Demertzis, Maciej Kubicki and Dimitra Kovala-Demertzi, "Synthesis, spectroscopic studies and crystal structures of organotin compounds with lornoxicam", XXth International Conference on organometallic chemistry, Corfu-Greece, 7-12 July, 2002.
- **Angeliki Galani**, Marianna Xanthopoulou, Dimitra Kovala-Demertzi, Sotiris K. Hadjikakou, John R. Miller, and Mavroudis A. Demertzis, "Synthesis, spectroscopic studies and crystal structures of

diorganotin derivatives with piroxicam", Xth International Conference on the coordination and organometallic chemistry of germanium, tin and lead, Bordeaux, 8-12 July, 2001.

- D. Giannakis, V. Kalfakakou, **A. Galani**, X. Giannakopoulos, A. Evangelou, " Serum and tissue concentrations of certain metals are related to tumor grade in transitional cell carcinoma of the bladder ", XIIth Congress of the European Association of Urology, Paris, France, Palais des Congrès, September, 1-4, 1996.
- **A. Galani**, V. Kalfakakou and A. Evangelou, " PAF-mediated zinc uptake by the human red blood cells ", 5th International Congress on Platelet Activating Factor and Related Lipid Mediators, Abs. 155, Berlin, 12-16/9/1995.

CHAPTERS IN BOOKS

- **Angeliki Galani**, Patra Vezyraki, Angelos Evangelou and Vicky Kalfakakou, " Effects of atrial natriuretic peptide (ANP) and furosemide on zinc transport through the red cell membrane ", In BooK Metal Ions in Biology and Medicine, Publisher: John Libbey Eurotext, Paris ©, Editors: J.A. Centeno, Ph. Collery, G. Vernet, R.B. Finkelman, H. Gibb, J.C. Etienne, January 2000, pp.144-146
- Dimitris Giannakis, Xenophon Giannakopoylos, Angelos Evangelou, **Angeliki Galani**, and Vicky Kalfakakou, " Bicarbonate effects on Zn, Cu, Cd, Ca, Mg transport in the Rat's isolated urinary bladder ",In Book: Metal Ions in Biology and Medicine, Publisher: John Libbey Eurotext, Paris ©, Editors: J.A. Centeno, Ph. Collery, G. Vernet, R.B. Finkelman, H. Gibb, J.C. Etienne, January 2000, pp.126-128

EXTERNAL EVALUATION REPORT
FOR THE DEPARTMENT OF ENVIRONMENTAL & NATURAL RESOURCES MANAGEMENT (HELLENIC QUALITY ASSURANCE AND ACCREDITATION AGENCY) (2012)

Special mention for the two members of laboratory teaching staff of the department (page 9)

¨A pair of qualified (PhD level) instructors supervises the laboratories, they are very motivated, and they are appreciated by the students and faculty members. The EEC was impressed by the strong effort of the laboratory staff. Although they are often overqualified, they help teach the undergraduates and ensure good working practices in the laboratory¨

Scopus – 02 / 2021

Total Citations to Journal Articles: 247 Citations to Journal Articles (excl. self-citations):243
Author h-index exclude self citation: 7 Author h-index exclude self citation of all authors: 7