

# **Thanos Salifoglou**

## **Curriculum Vitae and List of Publications**



**Aristotle University of Thessaloniki  
Department of Chemical Engineering  
THESSALONIKI**

## THANOS S. SALIFOGLOU

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Thessaloniki 54352  
Greece  
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Department of Chemical Engineering  
Aristotle University of Thessaloniki  
Thessaloniki 54124  
Greece  
Telephone: +30-2310-996-179  
+30-2310-996-196  
Fax: +30-2310-996-196  
E-mail: [salif@auth.gr](mailto:salif@auth.gr)  
[salif@cheng.auth.gr](mailto:salif@cheng.auth.gr)

<b>EDUCATION</b>	Ph.D., Bioinorganic Chemistry <b>The University of Michigan</b> Ann Arbor, Michigan, USA	12/1987
	B.Sc. in Chemistry, with honors <b>Aristotle University of Thessaloniki</b> Thessaloniki, Greece	7/1982
<b>ACADEMIC RECORD RESEARCH INTERESTS</b>	<b>Professor</b> <b>Aristotle University of Thessaloniki</b> Thessaloniki, Greece <b>Head of the Laboratory of Inorganic Chemistry and Chemistry of Advanced Materials</b>	2008-present
	<b>Head of the Chemistry Division</b> <b>Department of Chemical Engineering</b> <b>Aristotle University of Thessaloniki</b>	2013-present
	<b>Director of the Graduate Program</b> <b>“Processes and Technology in Advanced Materials”</b> <b>Faculty of Engineering</b> <b>Aristotle University of Thessaloniki</b> Thessaloniki, Greece	2008-2010

### Current Research Interests

- Bioinorganic vanadium, titanium and zinc compounds with physiological and biomimetic substrates, as potential pharmaceuticals of anticarcinogenic and insulin mimetic activity. Synthetic, spectroscopic, magnetic, structural and biological studies of vanadium and zinc species bearing physiological and biomimetic hydroxycarboxylic acids. Controlled release of synthetic or naturally encountered molecules from (macro)molecular cages relevant to metallodrug absorption and bio-activity processes. (Multi)functional

materials with applications (sensors) in Biomedical Engineering diagnostic medicine and (nano)technology.

- Carcinogenic metal ions in the transcriptional activation of signal transducing H<sub>a</sub>-Ras genes through DNA minisatellites in the human genome. Interactions of heavy metal and biotoxic metal ions with DNA minisatellites and consequences in the metallobiological pathways leading to carcinogenesis. Development of biomarker technologies correlating biotoxic metal ion-DNA minisatellite interactions with diagnosis (or even prognosis) of aberrant processes in signal transduction pathways.
- Biotoxic metal ions in the pathogenesis of neurodegenerative diseases (Alzheimer, etc.) and neoplasias (carcinogenesis). Linkage of soluble inorganic complex species (environmental metallotoxins) with processes involving interactions of biotoxic metal ions with defined cellular targets, structural speciation, bioavailability and etiopathogenetic biochemical reactivity. Development of (nano)molecular sensors and diagnostic tools for the immediate detection of early neurodegenerative events. Correlation of toxicity-neurodegeneration at the molecular level.
- Surface-modified dendrimers in the selective separation and recovery of toxic and heavy metal ions from water resources in the environment. Fundamental structure-function correlations in dendrimer physicochemical nature and reactivity supporting the development of technology management of metallotoxins in the environment.
- Development of metallofluorimetric chemosensor technology for the selective detection and quantitative determination of metallotoxins and metallotoxin pollutants in environmental and biological fluids through the use of HPLC-PCD chromatography. Monitoring applications in environmental protection and metal ionic homeostasis at the cellular level.
- Design and development of technological approaches linked to metal-catalyzed oxidative damage of biological tissues. Oxidative stress in neurodegeneration. Development of selective chemosensors of essential and non-essential metal ions in relation to clinically pathological conditions in neurodegenerative diseases.
- Synthesis of inorganic and inorganic-organic hybrid materials at low temperatures with specific chemical catalytic, physical structural and magnetic properties. Emphasis is given to the synthesis of single molecule magnets and chains as advanced materials at the nanotechnological level
- Natural antioxidants and pro-oxidant metal ionic materials in human nutrition. Mechanisms of pro-oxidant metals and antioxidant behavior of natural products through the use of experimental models in human physiology
- Design, synthesis, spectroscopic and structural characterization of biomimetic inorganic complexes as minimal representations of the active site metalloclusters in metalloenzymes. Development of catalytic processes involving small molecule activation through the employment of low molecular mass metal-ionic materials

**Aristotle University of Thessaloniki**  
Thessaloniki, Greece

**Associate Professor** 2002-2003  
**University of Crete**, Heraklion, Greece.

**Assistant Professor** 1996 - 2001  
**University of Crete**, Heraklion, Greece.

**Research Scientist** 1993 - 1995  
**Massachusetts Institute of Technology**, Cambridge,  
Massachusetts, USA  
Comparative investigation of the effects of inorganic  
nutrients in the growth of the wild type methanotrophic  
bacteria *Methylococcus capsulatus* and *Methylosinus*  
*trichosporium*. Development of large scale growth  
of the wild type isotopically enriched (<sup>57</sup>Fe, <sup>54</sup>Fe)  
methanotrophic bacterium *Methylococcus capsulatus*.  
Investigation of biological activity, chemical and  
structural properties of substitutionally derivatized  
hydroxylase enzyme in *Methylococcus capsulatus*.  
Cloning and expression of methanotrophic bacterial  
genes in *E. coli*.

**Special Scientific Staff** 1993  
**New England Medical Center/Tufts University**, Boston,  
Massachusetts, USA.  
Investigation of the functional capabilities of  
H<sub>α</sub>-RAS gene minisatellites in human cell extracts. Instability  
of telomeric gene minisatellites and interactions with transcription  
factors in carcinogenesis. Phylogeny and functional implications  
of recombinatorial chi (χ) sequence signals in genes across  
the evolutionary spectrum of species.

**Postdoctoral Associate** 1990 - 1992  
**Massachusetts Institute of Technology**, Cambridge,  
Massachusetts, USA  
Development of high yield, high activity biochemical  
techniques for isolation and purification of the  
metalloenzyme enzyme methane monooxygenase (MMO).  
Development of protocols for large scale fermentations  
of the methanotrophic bacteria *Methylococcus capsulatus*  
and *Methylosinus trichosporium*. Cloning, DNA sequencing  
and expression of the alpha subunit of the MMO  
hydroxylase protein in *E. coli*. Design and development  
of large scale growth for recombinant *E. coli* organisms.

**NATO Postdoctoral Research Associate** 1988 - 1990  
**Massachusetts Institute of Technology**, Cambridge,  
Massachusetts, USA

New methods of high yield extraction, purification and spectroscopic/structural characterization of the cofactor of the molybdenum nitrogenase enzyme. Development of growth medium and protocols for high yield pilot plant fermentations of the nitrogen fixing bacterium *Azotobacter vinelandii*. Isolation, purification and characterization of the metalloenzyme nitrogenase and its protein components.

**Research Assistant**

1983 - 1987

**The University of Michigan**, Ann Arbor,  
Michigan, USA

Design of stoichiometric and structural models of metal containing active sites of proteins and enzymes involved in biological electron transfer and catalysis. Synthesis, reactivity investigation, spectroscopic and X-ray structural characterization of inorganic heterometallic clusters as potential models for the active sites of metalloenzymes.

**Research Trainee**

Summer 1981

**Max-Planck Institute for Radiation Chemistry**,  
Mülheim an der Ruhr, Germany

Mechanistic studies and reactivity exploration of organic compounds using  $\gamma$ -irradiation techniques.

**TECHNICAL  
SKILLS**

Design, synthesis and physicochemical characterization techniques (UV/Visible, Fluorescence, FTIR, NMR of paramagnetic materials, heteronuclear NMR (solid state-solution) ESI-MS, UPLC-ESI-MS, GC, GC-MS, MALDI-MS, HPLC, HPLC-PCD, Electrochemistry, TGA, DSC) of inorganic and organometallic materials (employment of anaerobic techniques). Single crystal X-ray crystallographic techniques. Operation and maintenance of X-ray powder and single crystal X-ray diffractometers. Biophysical techniques (Mössbauer, EPR, EXAFS) as probes of active site metal centers in metalloenzymes. Biochemical techniques, biological assays, etc. for aerobic and anaerobic protein isolation, purification and characterization. PCR, DNA sequencing, cloning and expression of recombinant proteins. Development of medium and protocols for microbial cell growth (aerobic and anaerobic bacteria). Large scale fermentations of recombinant *E. coli*. Operation and maintenance of fermentation facility. Purification of recombinant *E. coli* proteins.

**TEACHING  
EXPERIENCE**

**Professor**

2013 - 2014

Undergraduate Course Title: "Inorganic Chemistry"

Department of Chemical Engineering

Undergraduate Course Title: "Chemistry Laboratory I – Inorganic Chemistry"

Department of Chemical Engineering

Undergraduate Course Title: “Gene Metallobiology and Engineering”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Environmental Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Diploma Thesis”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Undergraduate Course Title: “General and Inorganic Chemistry”  
**Hellenic Open University**, Patras, Greece  
Undergraduate Course Title: Antioxidant power in Food Engineering  
 Faculty of Food Processing Technology  
**Banat’s University of Agricultural Sciences and Veterinary Medicine**  
**“King Michael I of Romania” from Timisoara**, Romania  
Graduate Course Title: “Metallo-Biological Processes in Health and the Environment”  
 Department of Chemistry and Biology  
**West University of Timisoara**, Timisoara, Romania

<b>Professor</b>	2012 – 2013
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Undergraduate Course Title: “Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Chemistry Laboratory I – Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Environmental Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Gene Metallobiology and Engineering”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Diploma Thesis”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Undergraduate Course Title: “General and Inorganic Chemistry”  
**Hellenic Open University**, Patras, Greece  
Graduate Course Title:  
 “Methods and Study of Characterization of Materials”  
 Graduate Program  
 “Processes and Technology in Advanced Materials”  
 Faculty of Engineering  
Graduate Course Title: “Metallo-Biological Processes in Health and the Environment”  
 Department of Chemistry and Biology  
**West University of Timisoara**, Timisoara, Romania

<b>Professor</b>	2011 - 2012
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Undergraduate Course Title: “Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Chemistry Laboratory I – Inorganic Chemistry”  
 Department of Chemical Engineering

Undergraduate Course Title: “Gene Metallobiology and Engineering”

Department of Chemical Engineering

Undergraduate Course Title: “Diploma Thesis”

Department of Chemical Engineering

**Aristotle U. of Thessaloniki**, Thessaloniki, Greece

Undergraduate Course Title: “General and Inorganic Chemistry”

**Hellenic Open University**, Patras, Greece

Graduate Course Title:

“Methods and Study of Characterization of Materials”

Graduate Program

“Processes and Technology in Advanced Materials”

Faculty of Engineering

Graduate Course Title:

“Biomaterials”

Graduate Program

“Processes and Technology in Advanced Materials”

Faculty of Engineering

**Aristotle University of Thessaloniki**, Thessaloniki, Greece

Continuing Education Course for Medical Professionals

“Diagnostics in Alzheimer’s Dementia”

**Panhellenic Institute of Neurodegenerative Diseases**

Thessaloniki, Greece

Graduate Course Title: “Inorganic and Biological Chemistry”

Department of Chemistry and Biology

**West University of Timisoara**, Timisoara, Romania

**Professor**

2010 - 2011

Undergraduate Course Title: “Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Chemistry Laboratory I –

Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Gene Metallobiology and Engineering”

Department of Chemical Engineering

Undergraduate Course Title: “Diploma Thesis”

Department of Chemical Engineering

**Aristotle U. of Thessaloniki**, Thessaloniki, Greece

Undergraduate Course Title: “General and Inorganic Chemistry”

**Hellenic Open University**, Patras, Greece

Graduate Course Title:

“Methods and Study of Characterization of Materials”

Graduate Program

“Processes and Technology in Advanced Materials”

Faculty of Engineering

Graduate Course Title:

“Biomaterials”

Graduate Program

“Processes and Technology in Advanced Materials”

Faculty of Engineering

**Aristotle University of Thessaloniki**, Thessaloniki, Greece  
Graduate Course Title: “Inorganic and Biological Chemistry”  
 Department of Chemistry and Biology  
**West University of Timisoara**, Timisoara, Romania

**Professor** 2009 - 2010

Undergraduate Course Title: “Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Chemistry Laboratory I –  
 Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Gene Metallobiology and Engineering”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Diploma Thesis”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Undergraduate Course Title: “General and Inorganic Chemistry”  
**Hellenic Open University**, Patras, Greece  
Graduate Course Title:  
 “Methods and Study of Characterization of Materials”  
 Graduate Program  
 “Processes and Technology in Advanced Materials”  
 Faculty of Engineering  
**Aristotle University of Thessaloniki**, Thessaloniki, Greece  
Graduate Course Title: “Inorganic and Biological Chemistry”  
 Department of Chemistry and Biology  
**West University of Timisoara**, Timisoara, Romania

**Professor** 2008 - 2009

Undergraduate Course Title: “Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Chemistry Laboratory I –  
 Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Gene Metallobiology and Engineering”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Diploma Thesis”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Undergraduate Course Title: “General and Inorganic Chemistry”  
**Hellenic Open University**, Patras, Greece  
Graduate Course Title:  
 “Methods and Study of Characterization of Materials”  
 Graduate Program  
 “Processes and Technology in Advanced Materials”  
 Faculty of Engineering  
**Aristotle University of Thessaloniki**, Thessaloniki, Greece  
Graduate Course Title: “Inorganic and Biological Chemistry”  
 Department of Chemistry and Biology



**West University of Timisoara**, Timisoara, Romania

**Associate Professor**

2007 - 2008

Undergraduate Course Title: “Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Chemistry Laboratory I –

Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Gene Metallobiology and Engineering”

Department of Chemical Engineering

Undergraduate Course Title: “Diploma Thesis”

Department of Chemical Engineering

**Aristotle U. of Thessaloniki**, Thessaloniki, Greece

Undergraduate Course Title: “General and Inorganic Chemistry”

**Hellenic Open University**, Patras, Greece

Graduate Course Title:

“Bioinorganic Chemistry I” with emphasis on model complexes in the active sites of non-heme iron-sulfur proteins, and electron transfer in metallobiological systems

EPEAEK Graduate Program “Bioinorganic Chemistry”

Department of Chemistry, **U. of Ioannina**, Ioannina, Greece

Graduate Course Title: “Inorganic and Biological Chemistry”

Department of Chemistry and Biology

**West University of Timisoara**, Timisoara, Romania

**Associate Professor**

2006 - 2007

Undergraduate Course Title: “Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Chemistry Laboratory I –

Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Gene Metallobiology and Engineering”

Department of Chemical Engineering

Undergraduate Course Title: “Diploma Thesis”

Department of Chemical Engineering

**Aristotle U. of Thessaloniki**, Thessaloniki, Greece

Undergraduate Course Title: “General and Inorganic Chemistry”

**Hellenic Open University**, Patras, Greece

Graduate Course Title: “Inorganic and Biological Chemistry”

Department of Chemistry and Biology

**West University of Timisoara**, Timisoara, Romania

**Associate Professor**

2005 - 2006

Undergraduate Course Title: “Inorganic Chemistry”

Department of Chemical Engineering

Undergraduate Course Title: “Inorganic Chemistry Laboratory I”

Department of Chemical Engineering

Undergraduate Course Title: “Inorganic Chemistry Laboratory II”

Department of Chemical Engineering

Undergraduate Course Title: “Diploma Thesis”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Undergraduate Course Title: “General and Inorganic Chemistry”  
**Hellenic Open University**, Patras, Greece  
Graduate Course Title:  
 “Bioinorganic Chemistry I” with emphasis on model  
 complexes in the active sites of non-heme iron-sulfur proteins,  
 and electron transfer in metallobiological systems  
 EPEAEK Graduate Program “Bioinorganic Chemistry”  
 Department of Chemistry, **U. of Ioannina**, Ioannina, Greece  
Graduate Course Title: “Inorganic and Biological Chemistry”  
 Department of Chemistry and Biology  
**West University of Timisoara**, Timisoara, Romania

**Associate Professor** 2004 - 2005  
Undergraduate Course Title: “Inorganic Chemistry”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Inorganic Chemistry Laboratory I”  
 Department of Chemical Engineering  
Undergraduate Course Title: “Inorganic Chemistry Laboratory II”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece

**Associate Professor** 2003 - 2004  
Undergraduate Course Title: “Inorganic Chemistry Laboratory II”  
 Department of Chemical Engineering  
**Aristotle U. of Thessaloniki**, Thessaloniki, Greece  
Graduate Course Title:  
 “Advanced Spectroscopy” with emphasis in  
 X-ray crystallography.  
 EPEAEK Graduate Program “Isolation and Characterization of  
 Natural Products with Biological Activity”  
 Department of Chemistry, **U. of Crete**, Heraklion, Greece

**Associate Professor** 2002 - 2003  
Undergraduate Course Title: “Inorganic Chemistry I”  
Graduate Course Title:  
 “Advanced Spectroscopy” with emphasis in  
 X-ray crystallography.  
 EPEAEK Graduate Program “Isolation and Characterization of  
 Natural Products with Biological Activity”  
Graduate/Elective Undergraduate Course Title:  
 “Metal Ions in Gene Regulation”.  
 Department of Chemistry, **U. of Crete**, Heraklion, Greece  
Graduate Course Title:  
 “Bioinorganic Chemistry I” with emphasis on model  
 complexes in the active sites of non-heme iron-sulfur proteins,  
 and electron transfer in metallobiological systems

EPEAEK Graduate Program “Bioinorganic Chemistry”  
Department of Chemistry, **U. of Ioannina**, Ioannina, Greece

**Assistant Professor/Associate Professor** 2001 - 2002

Undergraduate Course Title: “Inorganic Chemistry I”

Graduate Course Title:

“Advanced Spectroscopy” with emphasis in X-ray crystallography.

EPEAEK Graduate Program “Isolation and Characterization of  
Natural Products with Biological Activity”

Graduate/Elective Undergraduate Course Title:

“Metal Ions in Diagnostic and Therapeutic Medicine,  
and Pharmacology”.

Department of Chemistry, **U. of Crete**, Heraklion, Greece

**Assistant Professor** 2000 - 2001

Undergraduate Course Title: “Inorganic Chemistry I”

Graduate/Elective Undergraduate Course Title:

“Metal Ions in Medicine and Pharmacology”.

Department of Chemistry, **U. of Crete**, Heraklion, Greece

Graduate Course Title:

“Bioinorganic Chemistry I” with emphasis on model  
complexes in the active sites of non-heme iron-sulfur proteins,  
and electron transfer in metallobiological systems

“Bioinorganic Chemistry II” with emphasis on the structure  
and function of heme and non-heme iron sulfur proteins  
and enzymes in biology

EPEAEK Graduate Program “Bioinorganic Chemistry”

Department of Chemistry, **U. of Ioannina**, Ioannina, Greece

**Assistant Professor** 1999 - 2000

Undergraduate Course Title: “Inorganic Chemistry I”

Undergraduate Course Title: “Inorganic Chemistry II”

Graduate/Elective Undergraduate Course Title:

“Metal Ions in Pharmacology and Medical Diagnostics”.

Graduate Course Title:

“Advanced Spectroscopy” with emphasis in X-ray crystallography.

EPEAEK Graduate program “Isolation and Characterization  
of Natural Products with Biological Activity”

Department of Chemistry, **U. of Crete**, Heraklion, Greece

Undergraduate Course Title: “Principles and Applications  
of Chemistry and Biology”

Department of Pedagogy, **U. of Crete**, Rethymnon, Greece

Graduate Course Title:

“Bioinorganic Chemistry II” with emphasis on the structure  
and function of heme and non-heme iron sulfur proteins  
and enzymes in biology

EPEAEK Graduate Program “Bioinorganic Chemistry”

Department of Chemistry, **U. of Ioannina**, Ioannina, Greece

<b>Assistant Professor</b> <u>Undergraduate Course Title:</u> “Inorganic Chemistry I” <u>Graduate/Elective Undergraduate Course Title:</u> “Metal Ions in Medicine and Pharmacology”. Department of Chemistry, <b>U. of Crete</b> , Heraklion, Greece <u>Undergraduate Course Title:</u> “Principles and Applications of Chemistry and Biology” Department of Pedagogy, <b>U. of Crete</b> , Rethymnon, Greece	1998 - 1999
<b>Assistant Professor</b> <u>Undergraduate Course Title:</u> “Inorganic Chemistry I” <u>Graduate Course Title:</u> “Metal ions in Pharmacology and Diagnostic Medicine” Department of Chemistry, <b>U. of Crete</b> , Heraklion, Greece <u>Undergraduate Course Title:</u> “Principles and Applications of Chemistry and Biology” Department of Pedagogy, <b>U. of Crete</b> , Rethymnon, Greece	1997 - 1998
<b>Assistant Professor</b> <u>Undergraduate Course Title:</u> “Inorganic Chemistry of Transition Metal Complexes” Department of Chemistry, <b>U. of Crete</b> , Heraklion, Greece	1996 - 1997
<b>Assistant Professor</b> <u>Graduate Course Title:</u> “Metal ions in Biological Systems” <u>Undergraduate Course Title:</u> “Inorganic Chemistry II. Mechanisms in Inorganic and Organometallic Chemistry” Department of Chemistry, <b>U. of Crete</b> , Heraklion, Greece	1995 - 1996
<b>Guest Lecturer &amp; Instructor</b> <u>Course title:</u> “Biotechnology and Fermentation”, Departments of Chemistry and Chem. Engineering, <b>M.I.T.</b> , Cambridge, Massachusetts, USA.	1990 - 1991
<b>Guest Lecturer</b> <u>Course title:</u> “Environmental Microbiology”, Department of Civil Engineering, <b>M.I.T.</b> , Cambridge, Massachusetts, USA	1991
<b>Guest Lecturer-Instructor</b> Teaching undergraduate students and Industry Professionals, from interdisciplinary programs, the application of biochemical and analytical techniques in microbial fermentations. Departments of Chemistry and Chem. Engineering, <b>M.I.T.</b> , Cambridge, Massachusetts, USA	1988 – 1990
<b>Research Assistant</b> Synthetic, analytical and X-ray crystallographic	1985 - 1988

techniques in the characterization of new materials.  
 Department of Chemistry, **The U. of Michigan**,  
 Ann Arbor, Michigan, USA

	<b>Teaching Assistant</b> Department of Chemistry, <b>The University of Iowa</b> , Iowa City, Iowa, USA Taught and led General and Inorganic Chemistry Lab Sessions. Voluntarily held tutorial sessions in inorganic and general chemistry for undergraduate students.	1982 - 1983
<b>ERASMUS TEACHING ACTIVITIES</b>	Faculty of Food Processing Technology <b>Banat's University of Agricultural Sciences          and Veterinary Medicine</b> <b>"King Michael I of Romania" from Timisoara</b> Timisoara, Romania	2000-present
	Department of Chemistry and Biology <b>West University of Timisoara</b> Timisoara, Romania	2006-present
	Dept. of Applied Chemistry and Material Sciences <b>Polytechnic University of Bucharest</b> Bucharest, Romania	2006-2008
	Department of Chemistry <b>University of Bucharest</b> Bucharest, Romania	2013-present
	Department of Inorganic and Analytical Chemistry <b>University of Szeged</b> Szeged, Hungary	2002-2008
<b>AWARDS AND DISTINCTIONS</b>	Editorial Board <b>Journal of Inorganic Biochemistry</b>	2014-present
	<b>Elected Member of the Romanian Society of Cell Biology</b> Timisoara, Romania	2013
	<b>Member of the Scientific Council</b> <b>National Institute of Research and Development for          Electrochemistry and Condensed Matter (INCEMC)</b> Timisoara, Romania	2012-present
	<b>Diploma Gratitude</b> Contribution to the Graduate School Program and the Erasmus initiative West University of Timisoara Timisoara, Romania	2012

Honorary Professor of the Dept. of Applied Chemistry and Material Sciences <b>Polytechnic University of Bucharest, Romania</b>	2006
Elected Member of the International Advisory Committee <b>International Symposium on Applied Bioinorganic Chemistry (ISABC)</b>	2009-present
Member of the International Advisory Board <b>European Journal of Inorganic Chemistry</b>	2005-present
<b>Adjunct Professor</b> Faculty of Food Processing Technology <b>Banat University</b> of Agricultural Sciences and Veterinary Medicine Timisoara, Romania	2005-present
<b>Adjunct Professor</b> Faculty of Chemistry-Biology-Geography Postgraduate Studies Program West University of Timisoara Timisoara, Romania	2005-present
Greek Ministry of National Education and Religion Senior Fellowship Department of Chemistry <b>University of Szeged, Szeged, Hungary</b>	2004
NATO Science Senior Fellowship Faculty of Food Processing Technology <b>Banat University</b> of Agricultural and Veterinary Medicine Timisoara, Romania	2003
<b>Distinguished Service Award</b> Awarded by the Prefector of Pieria, Greece, for recognition of the Distinguished Academic Record and the promotion of higher education in Pieria.	2003
Greek Ministry of National Education and Religion Senior Fellowship Department of Chemistry <b>University of Bergen, Bergen, Norway</b>	2000
NATO Science Senior Fellowship Department of Chemistry <b>Jozsef Attila University, Szeged, Hungary</b>	1999, 2000

Exchange Fellowship of the Greek Ministry of National Education and Religion Department of Chemistry <b>Charles University</b> , Prague, Czech Republic	1999
NATO Postdoctoral Research Fellowship Department of Chemistry, <b>Massachusetts Institute of Technology</b> Cambridge, Massachusetts, USA	1988 - 1989
Knoller Fellowship, Department of Chemistry <b>The University of Michigan</b> , Ann Arbor Michigan, USA	5/1986 - 6/1986
<b>The University of Michigan</b> Fellowship Rackham School of Graduate Studies, Ann Arbor Michigan, USA	5/1985 - 6/1985 5/1984 - 6/1984
Greek Government Academic Scholarship ( <b>I.K.Y.</b> Award) awarded annually to undergraduate students at Aristotle University of Thessaloniki, Greece, for outstanding academic performance	1978 - 1982
Research Scholarship awarded by the German Academic Agency ( <b>D.A.A.D.</b> ) to individuals with demonstrated academic excellence	Summer 1981
<b>Stipend</b> awarded by the City Council and the Mayor of Katerini, Pieria, Greece, to undergraduate students for excellence in academic achievements	1981

**PUBLICATIONS AND PRESENTATIONS**      See attached sheets.

#### **ACADEMIC COMMITTEE SERVICE**

• Reviewer for the ACS Journal of Inorganic Chemistry	1998-present
• Reviewer for the ACS Journal JACS	1999-present
• Reviewer for Analyst	2007-present
• Reviewer for the African Journal of Agricultural Research	2010-present
• Reviewer for the African Journal of Microbiology Research	2010-present
• Reviewer for Applied Organometallic Chemistry	2010-present
• Reviewer for the Australian Journal of Chemistry	2010-present
• Reviewer for Bioinorganic Chemistry and Applications	2003-present
• Reviewer for Biomed Central Cancer	2013-present

• Reviewer for the Central European Journal of Medicine	2007-present
• Reviewer for the Central European Journal of Chemistry	2009-present
• Reviewer for the International Journal of Environmental Analytical Chemistry	2012-present
• Reviewer for the International Research Journal of Pharmacy and Pharmacology	2012-present
• Reviewer for the International Journal of Environmental Analytical Chemistry	2012-present
• Reviewer for the International Journal of Molecular Sciences	2013-present
• Reviewer for the Journal of African Chemistry	2009-present
• Reviewer for the Journal of Thermal Analysis and Calorimetry	2013-present
• Reviewer for Chemistry: A European Journal	2004-present
• Reviewer for the Chinese Journal of Oceanology-Limnology	2013-present
• Reviewer for Desalination and Water treatment	2008-present
• Reviewer for Drug Delivery Letters	2013-present
• Reviewer for the European J. of Inorganic Chemistry	2004-present
• Reviewer for the Journal FEBS	2010-present
• Reviewer for Food Chemistry	2005-present
• Reviewer for the Journal Fresenius	2008-present
• Reviewer for Inorganica Chimica Acta	2003-present
• Reviewer for Inorganic Chemistry Communications	2003-present
• Reviewer for the Journal of Agricultural and Food Chemistry	2005-present
• Reviewer for Journal of Analytical Atomic Spectrometry	2011-present
• Reviewer for the Journal Advances in RSC	2013-present
• Reviewer for the Journal of Chromatography	2005-present
• Reviewer for the Journal of Coordination Chemistry	2008-present
• Reviewer for the Journal of Coordination Chemistry and Applications	2008-present
• Reviewer for the Journal of Fluorine Chemistry	2012-present
• Reviewer for the Journal Food Chemistry	2005-present
• Reviewer for the Journal of Coordination Chemistry Reviews	2001-present
• Reviewer for the Journal of Environmental Science and Health	2013-present
• Reviewer for the Journal of Inorganic Biochemistry	1998-present
• Reviewer for the Journal of Materials Chemistry	2008-present
• Reviewer for the Journal of Materials Science	2008-present
• Reviewer for the Journal of Materials Science and Engineering	2010-present
• Reviewer for the Journal of Medicinal Food	2008-present
• Reviewer for the Journal of Molecular Structure	2004-present
• Reviewer for Molecular Biochemistry	2012-present
• Reviewer for the Journal of Physical Chemistry	2013-present
• Reviewer for the Journal of Pure and Applied Chemistry	2008-present
• Reviewer for the Journal Romanian Biotechnological Letters	2010-present
• Reviewer for the Journal of Sol Gel Science and Technology	2006-present
• Reviewer for the Journal of Solid State Chemistry	2003-present



• Reviewer for the Journal of Solution Chemistry	2004-present
• Reviewer for Lab on a Chip	2011-present
• Reviewer for Materials Letters	2009-present
• Reviewer for Metallomics	2010-present
• Reviewer for Molecular Biosystems	2007-present
• Reviewer for Molecular Spectroscopy	2006-present
• Reviewer for Monats Hefte der Chemie	2006-present
• Reviewer for Nanoscale	2013-present
• Reviewer for the New Journal of Chemistry	2008-present
• Reviewer for Organic and Biomolecular Chemistry	2007-present
• Reviewer for Physical Chemistry and Chemical Physics	2008-present
• Reviewer for Polyhedron	2005-present
• Reviewer for Research on Chemical Intermediates	2013-present
• Reviewer for the Royal Chemical Society Chemical Communications	2001-present
• Reviewer for Royal Chemical Society Dalton Transactions	2003-present
• Reviewer for Soft Matter	2013-present
• Reviewer for Spectroscopy Letters	2003-present
• Reviewer for Synthesis and Reactivity in Inorganic, Nano-metal and Metal-Organic Chemistry	2002-present
• Reviewer for Synthesis and Reactivity Reviews	2002-present
• Reviewer of Water Resource and Protection	2012-present
• Reviewer for Talanta	2010-present
• Reviewer for Zeitschrift fur Anorganische und Allgemeine Chemie	2009-present

### **Biotechnology Programs**

❖ Reviewer for ERA-Net ERAfrica programs	2012-present
❖ Reviewer for OTKA (National Hungarian Grant Agency)	2014-present
❖ Reviewer for EU SEE-ERA NET.PLUS programs	2010-present
❖ Reviewer for SEE-ERA NET programs	2007-2008
❖ Reviewer for Cyprus Institution of Research Promotion Programs	2008-present
❖ Reviewer for State Scholarships Foundation (IKY)	2008-present
❖ Reviewer for General Secretariat of Research and Technology (GSRT) Research Programs in Greece	2002-present
❖ Reviewer for Ministry of Education Research Programs	2002-present
❖ Reviewer of Research Programs on Biotechnology Natural Environment Research Council (NERC) United Kingdom	1999-present

### **Education and Research**

• Education Research Center Cambridge Crystallographic Structural Database System. Scientific Advisor for the entire Community in Greece	1997-present
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### **Service to the University Community**

- Elected to the seven-member Management Group of the Research Committee  
Aristotle University of Thessaloniki 2010-2013
- Committee for the evaluation of Ph.D. and Post-Doctoral Researchers toward Fellowships of excellence  
Aristotle University of Thessaloniki 2008-present
- Bioethics Committee  
Aristotle University of Thessaloniki 2012-present
- Research Committee  
Aristotle University of Thessaloniki 2008-present
- Committee for the Evaluation and Quality Assurance of Studies 2011-present
- Committee for Personnel Planning 2011-present
- Committee on Infrastructure Development, Maintenance and Security  
Department of Chemical Engineering  
Aristotle University of Thessaloniki 2005-present
- Committee of Undergraduate and Graduate Studies  
Department of Chemical Engineering  
Aristotle University of Thessaloniki 2005-present
- Public Relations Committee  
Department of Chemical Engineering  
Aristotle University of Thessaloniki 2004-2005
- Committee on Chemical and Occupational Safety in the School of Sciences  
Dept. of Chemistry, U. of Crete 1998-2003
- Committee on Food Safety and Hygiene of the School of Science Dining Cafeteria  
Dept. of Chemistry, U. of Crete 1998- 1999
- Committee on the School of Sciences Space Hygiene Control  
Dept. of Chemistry, U. of Crete 1998- 2003
- Committee on Undergraduate Affairs  
Dept. of Chemistry, U. of Crete 1997- 2000
- Committee on Undergraduate and Graduate Libraries 1997- 2003

Dept. of Chemistry, U. of Crete

- In charge of the Center for Training and Distribution of data from the Cambridge Crystallographic Structural Database System in Greece. 1997- present

#### ADMINISTRATION POSTS

- Director of the Inorganic Chemistry Laboratory  
Department of Chemical Engineering  
Aristotle University of Thessaloniki  
Thessaloniki, Greece 2008-present
- Head of the Chemistry Division  
Department of Chemical Engineering  
Aristotle University of Thessaloniki 2013-present
- Member of the Administration Board  
Center of Interdisciplinary Research and Innovation  
Aristotle University of Thessaloniki 2013-present
- Director of the Graduate Program  
“Processes and Technology of Advanced Materials”  
School of Engineering  
Aristotle University of Thessaloniki  
Thessaloniki, Greece 2008-2010

<b>PROFESSIONAL</b>	Society of Biological Inorganic Chemistry (SBIC)	1997-present
<b>AFFILIATIONS</b>	Hellenic Scientists Association of Boston (HSAB)	1993-present
	Association of Greek Chemists	2004-present
	American Chemical Society	1982-present

**PERSONAL** Married. Languages: English, Greek and German.

## LIST OF PUBLICATIONS

1. Cationic Spin Probe Reporting on Thermal Denaturation and Complexation-Decomplexation on BSA and SDS. Potential Application in Protein Purification Processes.  
I. Matei, A.M. Ariciu, M. V. Neascu, A. Collauto, A. Salifoglou, G. Ionita  
*J. Phys. Chem. B*, **2014**, in print.
  
2. Schiff base coordination flexibility toward binary cobalt and ternary zinc complex assemblies. The case of the hexadentate ligand N,N'-bis[(2-hydroxymethylbenzylidene amino)-propyl]-piperazine  
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*Polyhedron*, **2014**, 85, 48-59.
  
3. Structure Lattice-Dimensionality and Spectroscopic Property Correlations in Novel Binary and Ternary Materials of Group 13 Elements with the  $\alpha$ -Hydroxycarboxylic Benzoic Acid and Phenanthroline.  
E. Halevas, A. Hatzidimitriou, M. Bertmer, A. A. Vangelis, A. Antzara, C. Mateescu, A. Salifoglou  
*Crystal Growth and Design*, **2014**, 14, 4041-4059.
  
4. Heptanuclear Antiferromagnetic Fe(III)-D(-)-Quinato Assemblies with an  $S = 3/2$  Ground State. pH-Specific Synthetic Chemistry, Spectroscopic, Structural, and Magnetic Susceptibility Studies  
M. Menelaou, E. Vournari, V. Psycharis, C. P. Raptopoulou, A. Terzis, V. Tangoulis, Y. Sanakis, C. Mateescu, and A. Salifoglou  
*Inorganic Chemistry*, **2013**, 52, 13849-13860.
  
5. Differential expression of IL-17, 22 and 23 in the progression of colorectal cancer in patients with K-ras mutation. Ras signal inhibition and crosstalk with GM-CSF and IFN- $\gamma$ .  
S. Petanidis, D. Anastakis, M. Argyraki, M. Hadzopoulou-Cladaras, A. Salifoglou  
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6. Pseudosymmetry and pseudomerohedry or nonmerohedral twinning for the known structure of diaquabis(quinolin-8-olato- $\kappa(2)N,O$ )zinc(II).  
G. Varelas, A. Salifoglou, V. Psycharis  
*Acta Crystallographica C*, **2013**, 69, 868-871.
  
7. Binary and Ternary Metal-Organic Hybrid Polymers in Aqueous Lead(II)-Dicarboxylic Acid-(Phen) Systems. The Influence of O- and S-Ligand Heteroatoms on the Assembly of Distinct Lattice Architecture, Dimensionality, and Spectroscopic Properties  
C. Gabriel, C. P. Raptopoulou, A. Terzis, V. Psycharis, F. Gul-E-Noor, M. Bertmer, C. Mateescu, and A. Salifoglou  
*Crystal Growth & Design*, **2013**, 13, 2573-2589.
  
8. Binary Decavanadate-Betaine Composite Materials of Potential Anticarcinogenic Activity

- E. Kioseoglou, C. Gabriel, S. Petanidis, V. Psycharis, C.P. Raptopoulou, A. Terzis, and A. Salifoglou  
*Zeitschrift für Anorganische und Allgemeine Chemie*, **2013**, 639(8-9), 1407–1416.
9. Aromatic Chelator-Specific Lattice Architecture and Dimensionality in Binary and Ternary Cu(II)-Organophosphonate Materials.  
V. Georgantas, M. Menelaou, V. Psycharis, C. P. Raptopoulou, A. Terzis, V. Tangoulis, C. Mateescu, A. Salifoglou  
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  10. Manganese Oxychloride-Modified Hydrophobic Silica Targets Removal of Nitrates from Water  
E. Halevas, A. Malakopoulos, A. Delimitis, V. Zaspalis, G. Litsardakis, A. Salifoglou  
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  11. Novel ternary vanadium-betaine-peroxido species suppresses H-ras and matrix metalloproteinase-2 expression by increasing reactive oxygen species-mediated apoptosis in cancer cells  
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  12. Cadmium Modulates H-ras Expression and Caspase-3 Apoptotic Cell Death in Breast Cancer Epithelial MCF-7 cells.  
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  13. pH-Specific synthesis, spectroscopic, structural and magnetic, and aqueous solution studies in the binary Cr(III)–quinato system  
C. Mateescu, C. Gabriel, C.P. Raptopoulou, A. Terzis, V. Tangoulis, A. Salifoglou  
*Polyhedron*, **2013**, 52, 598–609.
  14. EPR and Circular Dichroism Solution Studies on the Interactions of Bovine Serum Albumin with Ionic Surfactants and  $\beta$ -Cyclodextrin.  
A. Rogozea, I. Matei, I.M. Turcu, G. Ionita, V.E. Sahini, A. Salifoglou  
*J. Phys. Chem. B*, **2012**, 116(49), 14245-14253.
  15. pH-Specific Hydrothermal Synthesis of Binary and Ternary Pb(II)-(O,N)carboxylic Acid Metal Organic Framework Compounds. Correlation of Aqueous Solution Speciation and Variable Dimensionality Lattice Architecture and Spectroscopic Signatures.  
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  16. In vitro Neurotoxic Fe(III) and Fe(III)-Chelator Activities in Rat Hippocampal Cultures. From Neurotoxicity to Neuroprotection aspects.  
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17. pH-Specific Structural Speciation of the Ternary V(V)-Peroxo-Betaine System. A Chemical Reactivity-Structure Correlation  
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*Inorganic Chemistry*, **2012**, *51*, 6056–6069.
18. Coordination Polymeric Materials in Binary and Ternary Cu(II)-Tetracarboxylate-Bipy Systems. Structure-Reactivity Correlation in Cu(II)-(O,N) 1D-3D Lattice Assemblies.  
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*Polyhedron*, **2012**, *40*, 134–144.
19. A unique dinuclear mixed oxo-peroxo V(V) complex in the structural speciation of the ternary V(V)-peroxo-citrate system. Potential Mechanistic and Structural Insight into the aqueous synthetic chemistry of dinuclear V(V)-citrate species with H<sub>2</sub>O<sub>2</sub>.  
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*Inorganic Chemistry*, **2011**, *50*, 11423–11436.
20. 1D-3D Metal-Organic Lattice Assemblies through Chemical Reactivity and Metal-Assisted Ligand Transformations in Ternary Pb(II)-Phenanthroline-(Hydroxy)Dicarboxylic Acid Systems.  
C. Gabriel, C. P. Raptopoulou, V. Psycharis, A. Terzis, M. Zervou, C. Mateescu, A. Salifoglou  
*Crystal Growth and Design*, **2011**, *11*, 382-395
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*Polyhedron*, **2011**, *30*, 427-437.
22. Hydrothermal Synthesis and Characterization of 2D M(II)-Quinate (M=Co,Zn) Metal-Organic Lattice Assemblies. Solid-State – Solution Structure Correlation in M(II)-Hydroxycarboxylate Systems.  
M. Menelaou, A. Konstantopai, N. Lalioti, C. Raptopoulou, V. Psycharis, A. Terzis, C. Mateescu, K. Tsarhopoulos, P. Rigas, A. Salifoglou  
*Inorganic Chemistry*, **2010**, *49* (24), 11449–11462.
23. Aluminum does not enhance beta-amyloid toxicity in rat hippocampal cultures.  
C. M. Nday, B. D. Drever, A. Salifoglou, and B. Platt  
*Brain Resesarch*, **2010**, *1352*, 265-276.
24. Aluminium interferes with hippocampal calcium signalling in a species-specific manner  
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*J. Inorganic Biochemistry*, **2010**, *104*, 919-927.

25. pH-Dependent Syntheses, Structural and Spectroscopic Characterization, and Chemical Transformations of Aqueous Co(II)-Quinate Complexes. An Effort to Delve Into the Structural Speciation of Co(II)-Quinic Acid Binary System.  
M. Menelaou, A. Konstantopai, C. Mateescu, H. Zhao, C. Drouza, N. Lalioti, A. Salifoglou  
*Inorganic Chemistry*, **2009**, 48, 8092–8105.
26. Synthesis, Spectroscopic, Structural and Magnetic Studies of New Binary Cr(III)-Citrate pH-Specific Structural Variants from Aqueous Media.  
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27. pH-Specific Synthetic Chemistry, and Spectroscopic, Structural, Electrochemical and Magnetic Susceptibility Studies in Binary Ni(II)-(Carboxy)Phosphonate Systems.  
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*Polyhedron*, **2009**, 28, 883-890.
28. The pH-Specific Synthesis, Spectroscopic, Structural and Magnetic Properties of a New Ni(II) Species Containing the Plant Physiological Binder D(-)-Quinic Acid. Association with the Aqueous Speciation of the Binary Ni(II)-Quinate System.  
M. Menelaou, C. Mateescu, H. Zhao, N. Lalioti, A. Salifoglou  
*Polyhedron*, **2009**, 28, 883-890.
29. Aqueous V(V)-peroxo-amino acid chemistry. Synthesis, structural and spectroscopic characterization of unusual ternary dinuclear tetraperoxo vanadium(V)-glycine complexes  
C. Gabriel, M. Kaliva, J. Venetis, P. Baran, I. Rodriguez-Escudero, G. Voyiatzis, M. Zervou, A. Salifoglou  
*Inorganic Chemistry*, **2009**, 48, 476–487.
30. Synthetic, Structural and Solution Speciation Studies on Binary Al(III)-(Carboxy)Phosphonate Systems. Relevance to the Neurotoxic Potential of Al(III).  
V. Georgantas, N. Kotsakis, C. P. Raptopoulou, A. Terzis, L. Iordanidis, M. Zervou, T. Jakusch, T. Kiss, A. Salifoglou  
*J. Inorganic Biochemistry*, **2009**, 103, 1530–1541.
31. Probing for Missing Links in the Binary and Ternary V(V)-Citrate-(H<sub>2</sub>O<sub>2</sub>) Systems. Synthetic Efforts and in vitro Insulin Mimetic Activity Studies.  
C. Gabriel, J. Venetis, M. Kaliva, C. P. Raptopoulou, A. Terzis, C. Drouza, B. Meier, G. Voyiatzis, C. Potamitis, A. Salifoglou  
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32. Aqueous Solution Studies and pH-Dependent Synthetic Chemistry in the Binary System of Iron(III) with the  $\alpha$ -Hydroxylcarboxylate Substrate Quinic Acid. Relevance to Iron Mobilization in Plants.  
M. Menelaou, C. Mateescu, H. Zhao, R.G. Raptis, N. Lalioti, Y. Sanakis, A. Simopoulos, A. Salifoglou  
*Inorganic Chemistry*, **2009**, 48, 1844-1856

33. Synthetic, Structural, Spectroscopic and Solution Speciation Studies of the Binary Al(III)-Quinic Acid System. Relevance of soluble Al(III)-hydroxycarboxylate species to molecular toxicity.  
C. Gabriel, M. Menelaou, M. Daskalakis, A. Lakatos, T. Kiss, C. Mateescu, R. G. Raptis, A. Salifoglou  
*Polyhedron*, **2008**, 27, 2911–2920.
34. pH-Specific Synthesis, Isolation, Spectroscopic and Structural Characterization of a New Dimeric Assembly of Dinuclear Vanadium(V)-Citrate-Peroxo Species from Aqueous Solutions.  
M. Kaliva, C. Gabriel, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
*Inorganica Chimica Acta*, **2008**, 361, 2631-2640.
35. Delving into the Complex Picture of Ti(IV)-Citrate Speciation in Aqueous Media. Synthetic, Structural, and Electrochemical Considerations in Mononuclear Ti(IV) Complexes Containing Variably Deprotonated Citrate Ligands.  
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*Inorganica Chimica Acta*, **2008**, 361, 2210-2224.
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B. Platt, A. J. Drysdale, C. Nday, E. L. Roloff, B. D. Drever, A. Salifoglou  
*NeuroToxicology*, **2007**, 28, 576–586
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C. Gabriel, C. P. Raptopoulou, A. Terzis, V. Tangoulis, C. Mateescu, A. Salifoglou  
*Journal of Inorganic Chemistry*, **2007**, 46, 2998-3009
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C. Gabriel, C. P. Raptopoulou, A. Terzis, N. Laloti, A. Salifoglou  
*Inorganica Chimica Acta*, **2007**, 360, 513-522
39. pH – Specific synthesis, spectroscopic, and structural characterization of an assembly of species between Co(II) and N,N-bis(phosphonomethyl)glycine. Gaining insight into metal-ion phosphonate interactions in aqueous Co(II)–organophosphonate systems  
A. Mateescu, C. Gabriel, R. G. Raptis, P. Baran, A. Salifoglou  
*Inorganic Chimica Acta*, **2007**, 360, 638-648
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M. Kaliva, E. Kyriakakis, A. Gabriel, C. P. Raptopoulou, A. Terzis, J.-P. Tuchagues, A. Salifoglou  
*Inorganic Chimica Acta*, **2006**, 359, 4535-4548



41. In Search of Binary Hybrid Systems in Manganese Chemistry. The Synthesis, Spectroscopic and Structural Characterization, and Magnetic Properties of a New Species in the Aqueous  $\text{Mn}^{\text{II}}$ -Quinic System.  
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*European Journal of Inorganic Chemistry*, **2006**, 10, 1957-1967.
42. pH-Specific Synthesis, Structural, and Spectroscopic Characterization of a Complex between Co(II) and N,N-bis(phosphonomethyl) glycine. Cobalt-Phosphonate Interactions in the Solid State and in Solution.  
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*European Journal of Inorganic Chemistry*, **2006**, 10, 1945-1956.
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M. Aureliano, T. Tiago, A. Sousa, R. M. C. Gândara, R. O. Duarte, J. J.G. Moura, M. Kaliva and A. Salifoglou  
*Journal of Inorganic Biochemistry*, **2005**, 99, 2355-2361.
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E. T. Kefalas, M. Dakanali, P. Panagiotidis, C. P. Raptopoulou, A. Terzis, T. Mavromoustakos, I. Kyrikou, N. Karligiano, A. Bino, A. Salifoglou  
*Inorganic Chemistry*, **2005**, 44, 4818-4828.
45. Mononuclear Ti(IV)-Citrate Complexes from Aqueous Solutions. pH-Specific Synthesis, Structural and Spectroscopic Studies in Relevance to Aqueous Titanium(IV)-Citrate Speciation.  
E. T. Kefalas, P. Panagiotidis, C. P. Raptopoulou, A. Terzis, T. Mavromoustakos, A. Salifoglou  
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46. A New Dinuclear Vanadium(V)-Peroxo-Citrate Complex in Aqueous Solutions. pH-Dependent Linkage, Spectroscopic, and Structural Correlations with Other Aqueous Vanadium(V)-Citrate Peroxo and non-Peroxo Species.  
M. Kaliva, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
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48. Synthesis, Spectroscopic and Structural Studies of a New Cadmium(II)-Citrate Aqueous Complex. Potential relevance to Cadmium(II)-Citrate Speciation and Links to Cadmium Toxicity.  
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*Journal of Agricultural and Food Chemistry*, **2003**, 51, 6696-6701.
50. Interaction of Al(III) with the peptides AspAsp and AspAspAsp  
M. Kilyen, P. Forgo, A. Lakatos, G. Dombi, T. Kiss, N. Kotsakis, A. Salifoglou  
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M. Kaliva, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
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M. Matzapetakis, N. Karligiano, M. Dakanali, A. Bino, C. P. Raptopoulou, V. Tangoulis, J. Giapintzakis, A. Terzis, A. Salifoglou

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67. Antioxidant Activity of Herb and Tea Infusions toward Iron under *in vitro* Digestive Conditions. \*

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M. Kourgiantakis, M. Matzapetakis, C. P. Raptopoulou, A. Terzis, A. Salifoglou

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- 75.** Studies of the Reactivity of Binary Thio- and Tertiary Oxothiomolybdates toward Electrophiles. Reactions with Dicarbomethoxyacetylene and the Synthesis and Structures of the  $[\text{Et}_4\text{N}]_2[\text{MoO}(\text{L})_2]$ , *anti*- $[\text{Et}_4\text{N}]_2[\text{Mo}_2\text{O}_2\text{S}_2(\text{L})_2]$ , *syn*- $[\text{Ph}_4\text{P}]_2[\text{Mo}_2\text{O}_2\text{S}_2(\text{L})_2]\cdot 2\text{DMF}$ ,  $[\text{Ph}_4\text{P}]_2[\text{Mo}(\text{L})_3]\cdot \text{DMF}\cdot \text{C}_6\text{H}_6$ , and  $[\text{Ph}_4\text{P}]_2[\text{Mo}_2\text{S}_2(\text{L})_4]\cdot 2\text{CH}_2\text{Cl}_2$  Complexes ( $\text{L} = 1,2$ -Dicarbomethoxy - 1, 2 - ethylenedithiolate). D. Coucouvanis, A. Hadjikyriakou, A. Toupadakis, Sang-Man Koo, O. Ileperuma, M. Draganjac, and A. Salifoglou, *Inorganic Chemistry*, **1991**, *30*, 754-767.
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- 78.** The Synthesis, Structural Characterization, and Electronic Properties of The  $[(\text{Fe}_6\text{S}_6\text{X}_6)\{\text{M}(\text{CO})_3\}_2]^{n-}$  Anions ( $\text{M} = \text{Mo}$ ,  $\text{W}$ ;  $n = 3, 4$ ;  $\text{X} = \text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ). Heteronuclear Clusters of Possible Structural Relevance to the Fe/Mo/S Center of Nitrogenase. D. Coucouvanis, A. Salifoglou, M. G. Kanatzidis, W. R. Dunham, A. Simopoulos, and A. Kostikas, *Inorganic Chemistry*, **1988**, *27*, 4066-4077.
- 79.** Dimeric Complexes Containing the  $[\text{Fe}_2\text{S}_2]^{2+}$  Cores Coordinated by Non-Sulfur Terminal Ligands. The Synthesis, Structural Characterization, and Spectroscopic Properties of  $[\text{Et}_4\text{N}]_2[\text{Fe}_2\text{S}_2(\text{o,o'}\text{-C}_{12}\text{H}_8\text{O}_2)_2]$ ,  $[\text{Et}_4\text{N}]_2[\text{Fe}_2\text{S}_2(\text{C}_4\text{H}_4\text{N})_4]$  and  $[\text{Et}_4\text{N}]_2[\text{Fe}_2\text{S}_2(\text{O-o-C}_6\text{H}_4\text{-CH}\{\text{n-Bu}\}\text{-NH-C}_6\text{H}_4\text{-o'-S})_2]$  and the Structure of  $[\text{Ph}_4\text{P}]_2[\text{Fe}_2\text{S}_2(\text{O-C}_6\text{H}_4\text{-p-CH}_3)_4]$ . A. Salifoglou, A. Simopoulos, A. Kostikas, R. W. Dunham, M. G. Kanatzidis, and D. Coucouvanis,

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80. A New Cubane Cluster with The  $[\text{MoFe}_3\text{S}_4]^0$  Core and Possible Relevance to The  $\text{Fe}_3$ -Centers in Ferredoxins. The Synthesis, Structure and Properties of the  $[\text{Fe}_3\text{S}_4(\text{SEt})_3\text{Mo}(\text{CO})_3]^{3-}$  Anion.  
D. Coucouvanis, S. Al-Ahmad, A. Salifoglou, W. R. Dunham and R. Sands.  
*Angewandte Chemie, Intern. Edit. Engl.* **1988**, 27, 1353-1355.
81. A New Class of Di- $\mu$ -Aryloxy Bridged Dimers with First Row Divalent Transition Metal Ions. Synthesis and Structure Characterization of the  $[\text{Et}_4\text{N}]_2[\text{M}_2\text{Cl}_4(\text{O}-\text{C}_6\text{H}_4\text{-p}-\text{CH}_3)_2]$  Complexes ( $\text{M} = \text{Mn(II)}; \text{Fe(II)}; \text{Co(II)}; \text{Zn(II)}$  and  $\text{Cd(II)}$ ).  
D. Coucouvanis, K. Greiwe, A. Salifoglou, P. Challen, A. Simopoulos, and A. Kostikas,  
*Inorganic Chemistry*, **1988**, 27, 593-594.
82. Spectroscopic and Structural Evidence of Temperature Dependent Charge Localization and Structural Differentiation on the Fe Sites within the  $[\text{Fe}_6\text{S}_6\text{X}_6]^{2-}$  Clusters ( $\text{X} = \text{Cl}^-, \text{Br}^-$ ).  
D. Coucouvanis, M. G. Kanatzidis, A. Salifoglou, W. R. Dunham, A. Simopoulos, J. R. Sams, V. Papaefthymiou, A. Kostikas, and C.E. Strouse,  
*Journal of the American Chemical Society*, **1987**, 109, 6863-6865.
83. Structures and Electronic Properties of Fe/Mo/S Aggregates. Possible Structural Analogues for the Active Site of Nitrogenase.  
D. Coucouvanis, A. Salifoglou, S. Al-Ahmad, M. Kanatzidis, A. Simopoulos, and A. Kostikas.  
*Recueil des Travaux Chimiques des Pays-Bas (European Journal of Inorganic Chemistry)*, **1987**, 106, 300.
84. Synthesis, Structural Characterization, and Electronic Structures of the  $[(\text{Fe}_6\text{S}_6\text{X}_6)\{\text{M}(\text{CO})_3\}_2]^{3-}$  Clusters ( $\text{X} = \text{Cl}^-, \text{Br}^-$ ).  
D. Coucouvanis, A. Salifoglou, M. G. Kanatzidis, A. Simopoulos, and A. Kostikas,  
*Journal of the American Chemical Society*, **1987**, 109, 3807-3808.
85. The Synthesis and Structural Characterization of  $[\text{Et}_4\text{N}]_3[\text{Fe}_6\text{S}_6(\text{p-MeC}_6\text{H}_4\text{O})_6\{\text{W}(\text{CO})_3\}_2]$ . A Hetero-polynuclear Aggregate that Contains the  $[\text{W}_2\text{Fe}_6\text{S}_6]^{3+}$  Core.  
A. Salifoglou, M. G. Kanatzidis, and D. Coucouvanis,  
*Journal of the Chemical Society, Chemical Communications*, **1986**, 559-561.
86. The Chemistry of  $[\text{Fe}_6\text{S}_6]^{3+}$  Prismatic Cages. Synthesis, Structural Characterization and Electronic Structures of the  $[\text{Et}_4\text{N}]_3[\text{Fe}_6\text{S}_6\text{L}_6]$  Clusters ( $\text{L} = \text{p-CH}_3\text{C}_6\text{H}_4\text{O}^-, \text{Br}^-$ ).  
M. G. Kanatzidis, A. Salifoglou, and D. Coucouvanis,  
*Inorganic Chemistry*, **1986**, 25, 2460-2468.
87. A New Fe/S Cluster with the  $[\text{Fe}_6\text{S}_6]^{3+}$  Prismatic Core and p-Methylphenolate Terminal Ligands. The Synthesis, Structure, and Properties of  $[\text{Et}_4\text{N}]_3[\text{Fe}_6\text{S}_6(\text{O}-\text{C}_6\text{H}_4\text{-p}-\text{CH}_3)_6]$ .  
M. G. Kanatzidis, A. Salifoglou, and D. Coucouvanis,

*Journal of the American Chemical Society*, **1985**, *107*, 3358-3360.

- 88.** The Reactions, Structural Characterization and Electronic Properties of the New Metastable  $[\text{Fe}_6\text{S}_6\text{L}_6]^{3-}$  and  $[\text{Fe}_6\text{S}_6\text{L}_6]^{2-}$  Complexes.  
D. Coucouvanis, M. G. Kanatzidis, A. Salifoglou, W. R. Dunham, W. R. Hagen.  
Second International Conference on Bioinorganic Chemistry, Lisbon, Portugal, 1985.  
*Revista Portuguesa De Quimica (European Journal of Inorganic Chemistry)*, **1985**, *27*, 110.
- 89.** Dimeric Complexes Containing the  $[\text{Fe}_2\text{S}_2]^{2+}$  Cores Coordinated by Non-Sulfur Containing Terminal Ligands. The Crystal and Molecular Structures of the  $[\text{Fe}_2\text{S}_2(\text{o},\text{o}'\text{-C}_{12}\text{H}_8\text{O}_2)_2]^{2-}$  and  $[\text{Fe}_2\text{S}_2(\text{C}_4\text{H}_4\text{N})_4]^{2-}$  Anions.  
D. Coucouvanis, A. Salifoglou, M. G. Kanatzidis, A. Simopoulos, and V. Papaefthymiou,  
*Journal of the American Chemical Society*, **1984**, *106*, 6081-6082.

## Articles in Newspapers and Scientific Magazines

1. Ph.D. Studies in the Science of Chemical Engineering  
A. Salifoglou, G. Sakellarpoulos  
*Polymichano* **2008**, 22, 81-84.



**RESEARCH AND EDUCATIONAL WORK**  
**DOCTORAL THESES (Ph.D.)**

	<b>Thesis Title</b>	<b>Ph.D. candidate</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	The study of giant magnetoresistance effect in the $\text{LaNi}_{1-x}\text{CoO}_3$ solid solution	John Androulakis	2002	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	Synthetic, spectroscopic, and structural speciation studies of insulin mimetic vanadium in the presence of physiological ligands in aqueous media	Maria Kaliva	2003	
<b>3</b>	Synthesis, isolation and physicochemical characterization of compounds between (O,N)-organic substrates and metallotoxins	Catherine Gabriel	2009	
<b>4</b>	Structural speciation and fluorescence property studies of organic substrates with toxic metal ions in aqueous and non-aqueous media	Melita Menelaou	2009	
<b>5</b>	Structural speciation of metal ionic complexes of titanium with physiological substrates in binary systems with biological applications	Panagiotis Panagiotidis	2009	
<b>6</b>	Study of the effect of heavy metal ions on the oncogene HRAS. Toxicity oncogenic action correlation.	Christiane Nday	2009	
<b>7</b>	Study of the oxidative stress interactions between metallotoxins and amyloid targets in Alzheimer's disease	Bill Georgantas	2013	
<b>8</b>	Study of the interaction of metal ions with H-ras and K-ras oncogenes. Focusing on the carcinogenic cadmium and the	Savvas Petanidis	2013	

	development of anticancer vanadium metallopharmaceuticals.			
<b>9</b>	Study of the inclusion of polyfunctional inorganic-organic hybrid materials in hosts compatible with histologically aberrant targets. Delivery and controlled release.	Eleftherios Halevas	Ph.D. Candidate	
<b>10</b>	Structural speciation of vanado-pharmaceutical materials with insulin mimetic and anticancer drug activity	Efrosini Kioseoglou	2013	
<b>11</b>	Development of molecular biomarkers in metallo-induced oxidative stress in Alzheimer's type neurodegeneration	Olga Tsave	Ph.D. Candidate	
<b>12</b>	Binary and ternary hybrid materials with physiological substrates in biological applications	Catherine Iordanidou	Ph.D. Candidate	
<b>13</b>	(Poly)metallic zirconium, hafnium and lanthanide materials with organic substrates, targeting optical, structural and mechanical applications.	Christos Gavriilidis	Ph.D. Candidate	

## GRADUATE DEGREE THESES (M.Sc.)

	<b>M.Sc. candidate</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	Christina Matsingou	2000	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	Nick Kotsakis	2001	
<b>3</b>	Anca Mateescu	2004	
<b>4</b>	Nick Petrakis	2004	
<b>5</b>	Evangelos Kefalas	2004	
<b>6</b>	Paraskevi Karakosta	2010	Department of Chemical Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>7</b>	Athanasios Malakopoulos	2011	Department of Chemical Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>8</b>	Sofia Aggeli	2011	Department of Chemical Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>9</b>	E. Halevas	2012	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>10</b>	E. Hatzigeorgiou	2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>11</b>	T. Architectonidis	2014	Graduate program “Processes and Technology of Advanced Materials” School of

			Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>12</b>	G. Kotriklas	2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>13</b>	S. Sarigolis	2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece

### UNDERGRADUATE DEGREE DIPLOMA THESES

	<b>Thesis Title</b>	<b>Undergraduate student</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	The chemistry of vanadium with di- and tri-carboxylic acids in the active centers of biological systems.	Evangelia Kotsifaki	1997	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	In vitro study of the antioxidant properties and interactions of polyphenols with iron in tea.	Christina Matsingou	1997	
<b>3</b>	The chemical affinity of vanadium for di(tri) carboxylic acids.	Maria Tsaramyrsi	1998	

<b>4</b>	Metal ionic complexes of metal ions with citrates. Syntheses and physicochemical characterization.	Manolis Matzapetakis	1998	
<b>5</b>	Bioinorganic complexes of zinc from the active center of porphobilinogen synthase I.	Nick Kotsakis	1998	
<b>6</b>	Bioinorganic complexes of zinc from the active center of porphobilinogen synthase II.	Helen Papadimou	1998	
<b>7</b>	The role of the cytoskeletal actin system in the opioid regulatory excretion of catecholamines from neuroendocrine cells in vitro.	Maria Metaxari	1998 (Co-Advisor with Prof. Margioris from the Laboratory of Clinical Chemistry at the Medical School of the University of Crete)	
<b>8</b>	Human Transforming Growth Factor TGF- $\beta$ 1. Study of the effect of opioids on the 5'-induced region of the TGF- $\beta$ 1 gene in transfected endometrial and breast cancer cells.	John Damianakis	1998 (Co-advisor with Prof. A. Gravanis in the Laboratory of Pharmacology at the Medical School of the University of Crete)	
<b>9</b>	The aqueous chemistry of Pb(II) with citric acid. Biological consequences.	Markos Kourgiantakis	1999	
<b>10</b>	Bioinorganic complexes of zinc from the active center of porphobilinogen synthase.	Despoina Kavousanaki	1999	
<b>11</b>	Study of vanadium with di- and tr-carboxylic acids.	Maria Kaliva	2000	

<b>12</b>	Vanadium as a central metal ion in systems with biological substrates.	Thomais Giannadaki	2000	
<b>13</b>	Study of the antioxidant properties of various plants and herbs in Greece.	Irene Plevri	2000	
<b>14</b>	Metal ionic complexes with citrates. Syntheses and physicochemical characterization.	Marianna Dakanali	2001	
<b>15</b>	Synthesis, isolation and physicochemical characterization of vanadium complexes with ligands involving malonic acid, quinic acid and Glyphosate.	John Avagianos	2001	
<b>16</b>	Study of the effects of heavy metal ions on the transcriptional regulation of the RAS gene family I.	Catherine Kavroulaki	2001	
<b>17</b>	Aqueous chemistry of V(IV,V) with citric acid.	Emanuel Kyriakakis	2002	
<b>18</b>	Aqueous chemistry of transition metal ions with physiological ligands.	Evangelos Kefalas	2002	
<b>19</b>	Study of the antioxidant properties and HPLC analysis of sage extracts from organic solvents.	Nick Petrakis	2002	
<b>20</b>	Metal ion complexes with organic substrates. Relation to biological activity of metal ions in biological fluids.	Markos Daskalakis	2002	
<b>21</b>	Metal ion complexes with organic substrates of biological activity.	Stamatia Kountouri	2002	

22	Study of the effects of heavy metal ions on the transcriptional regulation of the RAS oncogene family II.	Themis Alissafi	2002	
23	Complexes of Al(III) with substrates of physiological significance.	Maria Manioudaki	2003	
24	The aqueous chemistry of Al(III) in the presence of citric, malic and tartaric acid.	Theodora Papadomanolaki	2003	
25	Study of the antioxidant properties in herb infusions: lemongrass-lime-mint-mountain tea against oxidation catalyzed by Fe(III). Polyphenol determination.	Sonia Kargaki	2003	
26	Synthetic approaches to the synthesis of organic chemical substrates.	Christophoros Chalampalak	2003	
27	Study of the effects of heavy metal ions in the transcriptional regulation of the RAS oncogene family III.	Maria Kyriakou	2003	
28	Extraction of interesting components from the herb <i>Salvia Officinalis</i> by the use of different solvents	Benoit Dervaux	2001 Departement de Genie Biologique, Institut Universitaire de Technologie A, Universite des Sciences et Technologie de Lille, Lille, France	Department of Chemistry University of Crete Heraklion, Greece
29	Extraction, antioxidant activity and quantification of polyphenols from <i>Salvia Fruticosa</i>	David Saout	2002 Departement de Genie Biologique, Institut Universitaire de Technologie A,	Department of Chemistry University of Crete Heraklion, Greece

			Universite des Sciences et Technologie de Lille, Lille, France	
30	Determination and quantification of antioxidant activity of plants in Hypericum and Melissa	Emilie Gartier	2003 Departement de Genie Biologique, Institut Universitaire de Technologie A, Universite des Sciences et Technologie de Lille, Lille, France	Department of Chemistry University of Crete Heraklion, Greece
31	The aqueous chemistry of Cd(II) with tartaric acid. Synthesis, isolation, structural and spectroscopic characterization of a new material from the binary Cd(II)-tartaric acid system.	Panagiotis Roditis	2005	Department of Chemical Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
32	Synthesis, isolation, structural and spectroscopic characterization of new complexes of Co(II) with organic substrates.	Antonia Konstantopai	2006	
33	Synthesis, isolation, structural and spectroscopic characterization of water soluble materials of vanadium with physiological substrates. Correlation with the insulin mimetic activity of vanadium.	John Venetis	2007	
34	Synthesis, isolation, structural and spectroscopic characterization of new crystalline compounds of Ni(II) with organic substrates.	Vassiliki Vamvourelli	2008	



<b>35</b>	Synthesis, isolation, structural and spectroscopic characterization of new compounds of Hg(II) and Cd(II) with organic substrates.	John Kyindris	2008	
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<b>36</b>	Gold in catalysis	Konstantinos Chrontzios	2008	
<b>37</b>	Technologies and applications in the cement industry.	Alexander Papadopoulos	2008	
<b>38</b>	Study of the pleiotropic toxicity of synthetic vanadium and cadmium compounds with citric acid in mice.	Antigoni Georgiou	2009	
<b>39</b>	The aqueous chemistry of the trivalent metal ions Al(III) and Cr(III) with organic substrates.	Anna Tsimpou	2009	
<b>40</b>	Study of the aqueous chemistry of Pb(II) and Hg(II) in the presence of organic substrates.	Maria Perikli	2009	
<b>41</b>	Synthetic approaches to the chemistry of Cd(II) with organic (O,N)-substrates.	Urania Oikonomidou	2010	
<b>42</b>	Synthesis, isolation, structural and physicochemical characterization of compounds between (O,N)-organic substrates with metallotoxins.	Evangelia Vavoura	2010	
<b>43</b>	Study of the chemistry of divalent Co(II) with O- and (O,N)-substrates.	Maria Panidou	2010	
<b>44</b>	Study of the chemical behavior of O- and (O,N)-substrates with transition metal ions.	Erasmia Vournari	2010	
<b>45</b>	Synthesis, isolation, structural and physicochemical characterization of water soluble materials of zinc with physiological substrates. Correlation with the insulin mimetic ability of zinc.	Theodore Architectonidis	2010	
<b>46</b>	Study of the chemical behavior of divalent Cu(II) with O- and (O,N)-substrates in aqueous and non-aqueous media.	Pantelitsa Loizia	2011	

<b>47</b>	Synthesis, isolation, structural and physicochemical characterization of new crystalline hybrid materials based on zirconium.	Chris Gavriilidis	2011	
<b>48</b>	Synthesis, isolation, structural and physicochemical characterization of hybrid materials of Cu(II) and Co(II) with organic (O,N)-substrates.	Lamprini Ioannou	2011	
<b>49</b>	Synthesis of new hybrid materials of Pb(II) with amino-phosphonic acids through the use of the hydrothermal method.	Olga Miliou	2011	
<b>50</b>	Study of the aqueous chemistry of Al(III) in the presence of physiological substrates	Eva Hadzigeorgiou	2012	
<b>51</b>	Synthesis, isolation and physicochemical characterization of a new hybrid materials based on zirconium	Manolis Koutroumpis	2013	
<b>52</b>	Synthesis, isolation, structural and spectroscopic characterization of new multi-ligand systems of Bi(III) with organic substrates	Artemis Tsiaprazi-Stamou	2013	
<b>53</b>	Synthesis and physicochemical characterization of biocatalysts by encapsulation of enzymes in hydrophobic silica.	Nancy Tziamourani	2014	
<b>54</b>	Synthesis, isolation, spectroscopic and structural characterization of hybrid mercury complexes with physiological ligands.	Maria Barouta	2014	

**Note:** Beyond the aforementioned diploma theses, five (5) additional theses are currently ongoing in the lab.

## RESEARCH COLLABORATORS IN THE LAB

	<b>Ph.D.</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	Maria Kapsokefalou	1998-2002	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	Kilyen Melinda	2000	Department of
<b>3</b>	Jancovics Hajnalka	2000	Inorganic and Analytical Chemistry, University of Szeged Department of Inorganic and Analytical Chemistry Szeged, Hungary
<b>4</b>	Constantin Mateescu	2005-present	Department of Agrofood Engineering Technology, Banat University of Agricultural Sciences and veterinary Medicine
<b>5</b>	Maria Anagnostopoulou	2009 - 2010	Department of Chemical Engineering, Aristotle University of Thessaloniki
<b>6</b>	Melita Menelaou	2010-2011	Department of Chemical Engineering, Aristotle University of Thessaloniki
<b>7</b>	Catherine Gabriel	2012-2014	Department of Chemical Engineering, Aristotle University of Thessaloniki
<b>8</b>	Christiane Nday	2013-2015	Department of Chemical Engineering, Aristotle University of Thessaloniki

## DOCTORAL THESES COMMITTEES (Ph. D.)

	<b>Ph.D. candidate</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	D. Daphnomili	July 13, 1998	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	E. Davoras	December 20, 1999	
<b>3</b>	E. Moschou	February 18, 2000	
<b>4</b>	N. Chronakis	June 30, 2000	
<b>5</b>	G. Tsikalas	December 6, 2002	
<b>6</b>	J. Androulakis	June 18, 2003	
<b>7</b>	M. Kaliva	September 16, 2004	
<b>8</b>	K. Kalogiannis Title: Treatment of two biodegradable polymer and pharmaceutical substances with supercritical fluids.	2006	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>9</b>	C. Polatidis Title: Electrochemical removal of nitrates from aqueous solutions and environmental samples through the use of constant and pulsating potential methods	2007	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>10</b>	S. Chaitidou Three Member Committee Title: Experimental study of the synthesis of molecular imprints of polymeric micro- and nano-particles for the selective recognition of peptides.	2008	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>11</b>	J. Katsounaros Three Member Committee Title: Electrochemical removal of nitrates on cathodic electrodes of group III and IV metals of the periodic table and their alloys.	2009	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece

<b>12</b>	C. Gabriel Three Member Committee Title: Synthesis, isolation and physicochemical characterization of compounds between (O,N)-organic substrates and metallotoxins	2009	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>13</b>	M. Menelaou Three Member Committee Title: Structural speciation and fluorescence property studies of organic substrates with toxic metal ions in aqueous and non- aqueous media	2009	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>14</b>	K. Tsiptsias Title: Development of new synthetic materials of biopolymer-bioceramic nature for applications in tissue engineering.	2009	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>15</b>	K. Simeonidis Title: Development of dimetallic magnetic nanoparticles with variable magnetic behavior.	2009	Department of Physics Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>16</b>	P. Panagiotidis Three Member Committee Title: Structural speciation of metal ionic complexes of titanium with physiological substrates in binary systems with	2009	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece

	biological applications		
<b>17</b>	C. NDay Three Member Committee Title: Study of the effects of metallotoxins on neurodegenerative disease processes with emphasis on Alzheimer disease.	2009	
<b>18</b>	D. Koutsonikolas Title: Modification of ceramic membranes for the separation of gases and the degradation of gas pollutants in membrane reactors.	2010	
<b>19</b>	S. Papadopoulou Title: Systematic study of factors influencing the protective ability of coatings on ancient civilization monuments.	2010	
<b>20</b>	D. Kavousanaki Title: Study of the chemical composition and technical preparation of glassy objects of the Aegean civilization.	2010	Graduate program “Studies on preservation and restoration of cultural monuments” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>21</b>	D. Nassiopoulou Title: Synthesis and reactivity study of chromenone and pyranose derivatives.	2011	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>22</b>	M. Georgakis Title: Simulation of natural sorption of hydrogen in carbonaceous porous	2012	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece

	materials through molecular simulation methods		
<b>23</b>	Mahendra Aryal Title: Removal of inorganic and organic toxic substances from aqueous solutions by microbial processes	2012	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>24</b>	Catherine Mantziaris Title: Investigation of molecular interactions of organosilicon layers through the use of nanotechnology on mineral substrates of the facade of contemporary and historical monuments	2013	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>25</b>	Bill Georgantas Title: Study of the oxidative stress interactions between metallotoxins and amyloid targets in Alzheimer's disease	2013	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>26</b>	Savvas Petanidis Title: Study of the interaction of metal ions with H-ras and K-ras oncogenes. Focusing on the carcinogenic cadmium and the development of anticancer vanadium metallopharmaceuticals .	2013	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>27</b>	Efrosini Kioseoglou Title: Structural speciation of vanado-pharmaceutical materials with insulin mimetic and anticancer drug activity	2013	Department of Chemical Engineering Aristotle University of Thessaloniki, Thessaloniki, Greece
<b>28</b>	Alketa Tarousi Title: Interactions of transition metals with drugs bearing	2014	Department of Chemistry Aristotle University of Thessaloniki,



	carboxylic acid moieties		Thessaloniki, Greece
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**DOCTORAL THESES COMMITTEES (Ph.D.) IN INSTITUTIONS  
OUTSIDE GREECE**

	<b>Title</b>	<b>Ph.D. candidate</b>	<b>Year</b>	<b>Institution</b>
<b>1</b>	Structure and reactivity of silyl-aminoalcohols with complexes of oxovanadium and boron in aqueous media.	Eugene Eugeniou	February 2006	Department of Chemistry, University of Cyprus

**GRADUATE DEGREE THESES (M.Sc.)  
COMMITTEES**

	<b>M.Sc. candidate</b>	<b>Year</b>	<b>Place</b>
<b>1</b>	C. Matsingou	October 6, 2000	Department of Chemistry University of Crete Heraklion, Greece
<b>2</b>	L. Gryllos	April 4, 2001	
<b>3</b>	N. Kotsakis	2001	
<b>4</b>	J. Tsikalas	July 3, 2001	
<b>5</b>	J. Androulakis	October 10, 2001	
<b>6</b>	Z. Viskadourakis	November 14, 2001	
<b>7</b>	E. Kefalas	July 1, 2004	
<b>8</b>	A. Mateescu	November 13, 2004	
<b>9</b>	N. Petrakis	November 15, 2004	
<b>10</b>	P. Karakosta	July 7, 2010	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>11</b>	A. Malakopoulos	May 8, 2012	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>12</b>	E. Halevas	June 6, 2012	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>13</b>	Sofia Aggeli	September 22, 2012	Department of Chemical Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>14</b>	E. Hatzigeorgiou	March 6, 2014	Graduate program “Processes and Technology of

			Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>15</b>	T. Architectonidis	March 6, 2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>16</b>	G. Kotriklas	July 4, 2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece
<b>17</b>	S. Sarigolis	July 4, 2014	Graduate program “Processes and Technology of Advanced Materials” School of Engineering Aristotle University of Thessaloniki Thessaloniki, Greece

**GRADUATE DEGREE THESES (M.Sc.) COMMITTEES  
IN INTER-INSTITUTIONAL GRADUATE DEGREE PROGRAMS**

	<b>M.Sc. title</b>	<b>M.Sc. candidate</b>	<b>Year</b>	<b>Place</b>
<b>1</b>	Synthesis, characterization and study of new complexes, with potential anti-viral activity, of group 11 ions in the periodic table, bearing heterocyclic thioamide ligands.	Panagiotis Zachariadis	2002	Department of Chemistry University of Ioannina Ioannina, Greece
<b>2</b>	Metallic complexes of substrates of biological significance based on inorganic materials.	Alexia Serafeimidis	2002	
<b>3</b>	Study of the mechanism of action of thioamides in the inhibition of the synthesis of thyroid hormones. Design and synthesis of new anti-thyroid drugs.	Ghada J. Corban	2003	

## **CITATIONS**

**Number of citations: 2508**

**The H-factor is 26**

**The number of citations per publications stands at 25**

**Note:** The citation search was carried out through **Science Citation Index** of the **ISI Web of Science**.

In this search **no citations** are included for

α) publications and chapters or monographs in textbooks or volumes thereof.

β) publications resulting from presentations in national and international meetings and placed in the Archives of Peer-Reviewed Conferences.

## BOOKS AND LECTURE NOTES

1. Synthetic and Structural Studies of Aqueous Vanadium(IV,V) Hydroxycarboxylate Complexes.  
A. Salifoglou  
In "Vanadium: The Versatile Metal"; Kustin, K.; Pessoa, J. C.; Crans, D. C. (Eds.); American Chemical Society, Washington DC; **2007**, p. 377-390.
2. Laboratory Exercises in Inorganic Chemistry  
A. Salifoglou  
Korakidis Publications  
Thessaloniki **2006**
3. Oxidative Theory in the Pathogenesis of Alzheimer's Disease  
A. Salifoglou  
In "Senilities: From Genetics to Therapy", M. Tsolaki, Editor  
University Studio Press, Thessaloniki, Greece, **2005**
4. Aluminum Metallotherapeutics  
A. Salifoglou  
in "*Metallotherapeutic Agents*", Marcel Gielen, Edward R. T. Tiekink, Editors  
Wiley Interscience, Brussels, **2004**
5. Chemistry Lab I  
Department of Chemical Engineering  
Aristotle University of Thessaloniki, Thessaloniki, **2004**
6. Chemistry Lab II  
Department of Chemical Engineering  
Aristotle University of Thessaloniki, Thessaloniki, **2004**
7. Safety in the Chemistry Lab-Rules of Conduct  
Department of Chemical Engineering  
Aristotle University of Thessaloniki, Thessaloniki, **2004**
8. Inorganic Chemistry I  
Department of Chemistry, University of Crete,  
Heraklion, **1998**.
9. From the Mass Production of *Methylococcus capsulatus* to the Efficient Separation and isolation of Methane Monooxygenase Proteins. Characterization of Novel Intermediates in Substrate Reactions of Methane Monooxygenase.  
K. E. Liu, A. M. Valentine, D. Wang, B. H. Huynh, D. E. Edmondson, A. Salifoglou, and S. J. Lippard,  
in "*Cytotoxic, Mutagenic and Carcinogenic Potential of Heavy Metals, Including Metals Related to Human Environment*", N. Hadjiliadis, Ed. Kluwer Academic Publishers. Netherlands. **1997**, 273-286.

10. Inorganic Chemistry II  
Department of Chemistry, University of Crete,  
Heraklion, **1997**.



## PARTICIPATION IN GRADUATE STUDY PROGRAMS

1. School of Engineering 2008-present  
Aristotle University of Thessaloniki  
“Processes and Technology of Advanced Materials”  
**Director of the Graduate Program**  
Interdepartmental Graduate Studies Program  
Thessaloniki, Greece
2. School of Engineering 2005-present  
Aristotle University of Thessaloniki  
“Protection, Maintenance and Renovation of Monuments of Civilization”  
Interdepartmental Graduate Studies Program  
Thessaloniki, Greece
3. Faculty of Chemistry-Biology-Geography 2005-present  
West University of Timisoara  
“The Chemistry of Biologically Active Compounds”  
Timisoara, Romania
4. Department of Chemistry 1998-present  
University of Ioannina  
“Bioinorganic Chemistry”  
Ioannina, Greece
5. Department of Chemistry 1996-2004  
University of Crete  
“General Graduate Studies Program”  
Heraklion, Greece
6. Department of Chemistry 1998-2004  
University of Crete  
“Synthesis and Isolation of Natural Products with Biological Activity”  
Heraklion, Greece
7. Department of Chemistry 2001-2004  
“Applied Molecular Spectroscopy”  
Heraklion, Greece

## PARTICIPATION IN RESEARCH NETWORKS

- 1. COST D8 of the European Action Program** 1996-2001  
Action D8: Chemistry of metals in medicine (COMM)  
Domain: Chemistry and Molecular Sciences and Technologies  
Action Title: Chemistry of metals in medicine (COMM)
- 2. COST D21 of the European Action Program** 2001-2006  
Action D21: Metalloenzymes and Chemical Biomimetics  
Domain: Chemistry and Molecular Sciences and Technologies  
Action Title: Metalloenzymes and Chemical Biomimetics
- 3. COST D29 of the European Action Program** 2001-2007  
Action D29: Sustainable/Green Chemistry and Chemical Technology  
Domain: Chemistry and Molecular Sciences and Technologies  
Action Title: Sustainable/Green Chemistry and Chemical Technology
- 4. Hellenic Biomaterials Network (H-Bio-MatNet)** 2006 - present

Principal Co-founder of **H-Bio-MatNet**

The Network was created to a) promote interdisciplinary research involving Sciences, Health Sciences, and Engineering, and b) forge cutting edge technology across scientific barriers in a competitive fashion. The main scientific fields of the thematic Network are biomaterials with specific emphasis on Bioactive Materials, Biomimetics and Tissue Engineering.

Web address: <http://www.biomatnet.gr/>

## ORGANIZATION OF CONFERENCES

### National Conferences

1. Member of the Organizing Committee  
**19<sup>th</sup> Pan-Hellenic Conference on Chemistry**  
November 6-10, 2002, Heraklion, Greece
2. Chairman of the Organizing Committee  
***“Safety and Health Practices in Foods”***  
October 24, 1998, Heraklion, Greece

### International Conferences

1. Member of the Scientific Committee  
**New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection**  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
2. Member of the Scientific Committee  
**The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology**  
Banat's University of Agricultural Sciences and Veterinary Medicine  
“King Michael I of Romania” from Timisoara  
May 29-30, 2014, Timisoara, Romania
3. Member of the Scientific Committee  
**International Conference of Physical Chemistry Romphyschem 15**  
Romanian Academy of Sciences  
September 11-13, 2013, Bucharest, Romania
4. Academic Team  
Committee of Natural Sciences  
**Topic: Controlling, financing and promoting medical research on genetics-cloning SimUnesco (Simulation of UNESCO Corfu) Conference**  
Ionian University  
August 21-24, 2013, Corfu, Greece
5. Member of the Scientific Committee  
**13<sup>th</sup> Edition of Academic Days Timisoara Chemistry Symposium- New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection**  
Romanian Academy of Sciences  
June 13-14, 2013, Timișoara, Romania
6. Member of the Scientific Committee

**5<sup>th</sup> International Congress and the 31<sup>st</sup> Annual Scientific Session of the Romanian Society for Cell Biology**

June 5-9, 2013, Timișoara, Romania

7. Member of the Scientific Committee  
**The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology**  
May 30-31, 2013, Timișoara, Romania
8. Member of the Scientific Committee  
**9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering**  
**“The Contribution of Chemical Engineering to Sustainable Development”**  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
9. Member of the Scientific Committee  
**New Trends and Strategies in the Chemistry of Advanced Materials**  
November 8-9, 2012, Timisoara, Romania
10. Member of the Organizing Committee  
**European Biological Inorganic Chemistry 11 (EUROBIC 11) Conference**  
September 12-16, 2012, Granada, Spain
11. Member of the International Advisory Committee 2009-present  
**International Symposium on Applied Bioinorganic Chemistry**
12. Member of the Scientific Committee  
**The 3<sup>rd</sup> International Conference on Food Chemistry, Engineering & Technology**  
May 10-11, 2012, Timișoara, Romania
13. Member of the Scientific Committee  
**5<sup>th</sup> International Symposium on New Trends and Strategies in the Chemistry of Advanced Materials**  
November 3-4, 2011, Timisoara, Romania
14. Member of the Scientific Committee  
**The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology**  
May 19 – 20, 2011, Timișoara, Romania
15. Member of the Organizing Committee  
**1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)**  
November 3-5, 2010, Thessaloniki, Greece
16. Co-Chairman and Organizer  
with Prof. D. Kessissoglou (AUTH) and Prof. N. Hadjiliadis (U. Ioannina)  
**European Biological Inorganic Chemistry 10 (EUROBIC 10) Conference**  
June 22-26, 2010, Thessaloniki, Greece, **2010**

17. Member of the Organizing Scientific Committee  
**“7<sup>th</sup> International Conference of Trace Elements in Humans: New Perspectives”**  
 October 13-15, 2009, Athens, Greece
18. Member of the Organizing Scientific Committee  
**“Food Sciences, Processes and Technologies. Trends in Food Safety and Processing”**  
 May 27-29, 2009, Timisoara, Romania
19. International Organizing Committee  
**European Biological Inorganic Chemistry 9 (EUROBIC 9) Conference**  
 September 2-6, 2008  
 Wroclaw, Poland
20. Member of the Organizing Board  
**“Trends In Food Safety and Processing”**  
 May 17-18, 2007, Timisoara, Romania
21. Member of the Organizing Board  
**“New Trends In Food Safety and Food Technologies”**  
 May 25-26, 2006, Timisoara, Romania
22. Co-organizer  
**COST D21/009/01 WG Meeting**  
**“Insulin mimetic vanadium compounds”**  
 October 1-2, 2005, Thessaloniki, Greece
23. Member of the Organizing Board  
**SAFE FOOD ALL OVER EUROPE**  
**“Agroalimentary Science, Process and Technology”**  
 May 26-27, 2005, Timisoara, Romania
24. Member of the Organizing Board  
**“Agroalimentary Science, Process and Technology”**  
 May 20-21, 2004, Timisoara, Romania

## Appearance on Mass-Media

### 1. ET3 TV

Electra palace Hotel Press Conference  
 October 12, 2011, Thessaloniki, Greece

Title of the Presentation “Diagnostic Challenges in Alzheimer’s dementia”

The purpose was to

- a) present the work carried out at the Laboratory of Inorganic Chemistry at the Chemical Engineering Department of Aristotle University of Thessaloniki on Alzheimer’s disease fundamental processes linked to neurodegeneration

- b) emphasize the links among seven research groups at Aristotle University of Thessaloniki, all striving to provide solutions to problems linked to Alzheimer's disease
- c) raise awareness on the specificity of goals of the collective research efforts targeting key issues in neurodegeneration and the associated dementia in Alzheimer disease.
- d) project the short and long term goals of the collective research covering a plethora of scientific approaches and strategies, all converging to solutions to hot problems in Alzheimer's disease through multidisciplinary research at Aristotle University of Thessaloniki
- e) exhibit tangible efforts that emphasize the importance of work linking the University with the Community in Thessaloniki and the country.

## **2. 3E TV**

Chairman of the Organizing Committee Eurobic10 Conference

June 22-26, 2010, Thessaloniki, Greece

The purpose was to

- a) present the scope and goals of the Eurobic10 Conference in Greece
- b) emphasize the importance of metal ions in life processes and abiotic systems, with wide applications in research, industry, pharmaceuticals and medicine
- c) raise awareness on the significance of metal ions in environmental and biological toxicity as well as their therapeutic potential in treating chronic and severe diseases, thereby improving the quality of life and saving the lives of people
- d) denote the importance of metal ions in every day life and science through which research can generate technological advancements for the improvement of life threatening diseases, while concurrently strengthen the biological as well as abiotic-biological hybrid metal ionic arsenal in supporting nutritional standards for the improvement of the quality of life on the entire planet.

## **3. Realitata TV**

March 24, 2007, Timisoara, Romania

The purpose was to

- a) promote collaborative scientific endeavors at the bilateral international level between Aristotle University Engineering Departments and their Romanian counterparts targeting cutting edge technology projects at a competitive level leading to applications in materials and Health Industry
- b) emphasize the significance of interdisciplinary multilateral scientific collaboration thereby establishing a network of activities and researchers collectively pursuing high level research in the Balkan Area and the European level.

## **4. Crete TV – FM 104**

Chairman of the Organizing Committee

*"Safety and Health Practices in Foods"*

October 24, 1998, Heraklion, Greece

The purpose was to

- a) publicize the importance of and promote the upcoming Conference to the Society (Science and non-Scientists)

- b)** denote the essence of the fundamental sciences in achieving high quality standards (HASSP) commensurate with the safety and health guidelines of the Food Technology Industries.
- c)** raise awareness and educate the public on the significance of flow of information on Food Safety and Health related issues from the scientific world to the contemporary society and consumers.

## RESEARCH GRANTS

- |   |                                 |
|---|---------------------------------|
| 1. Synthesis and Biological Activity of V-Fe-S complexes<br>Relevant to the active site center in alternative nitrogenases<br>Research Committee of the University of Crete<br>Principal Investigator   | 1997-1998<br><br>4,950,000 Dr.  |
| 2. Technology and Production of Olive Oil and Wine in Crete<br>DIAVLOS Program<br>General Secretariat of Research and Technology<br>Principal Investigator  | 1997-1998<br><br>650,000 Dr.    |
| 3. The role of carcinogenic metals in the interaction of<br>VTR <sub>HRAS1</sub> with transcriptional regulators<br>Research Committee of the University of Crete<br>Principal Investigator   | 1999-2001<br><br>2,000,000 Dr.  |
| 4. Vanadium complexes. Synthesis and Biological Activity<br>Research Committee of the University of Crete<br>Principal Investigator   | 1999-2001<br><br>2,300,000 Dr.  |
| 5. The role of aluminum and iron metal ions<br>In the formation of amyloid plaques in Alzheimer's disease<br>General Secretariat of Research and Technology, EPET II<br>Principal Investigator  | 1999-2001<br><br>32,000,000 Dr. |
| 6. Metal Dependent oxidative Damage of $\beta$ -Amyloid Peptides<br>Related to Alzheimer's Disease<br>CRG Grant<br>NATO- Principal Investigator   | 1997-1999<br><br>2,100,000 Dr.  |
| 7. Undergraduate Study Programs and University Textbooks<br>Ministry of Education and Religious Affairs<br>EPEAEK- Principal Investigator   | 1997-1999<br><br>66,500,000 Dr. |
| 8. Evaluation of AEI Educational Work<br>Ministry of Education and Religious Affairs<br>EPEAEK- Principal Co-Investigator   | 1999<br><br>9,000,000 Dr.       |
| 9. Novel Bioinorganic Chemistry of Aluminum ...in Continuous<br>Ambulatory Peritoneal Dialysis Patients<br>General Secretariat of Research and Technology<br>Bilateral Collaboration with Slovenia<br>Principal Investigator                  | 1998-2000<br><br>2,730,000 Dr.  |
| 10. Center for Distribution and Education for the Crystallographic<br>Data Base "Cambridge Structural Database System (CSDS)".<br>Research Committee of the University of Crete<br>Principal Investigator for the entire University Community | 1997-2001                       |



In Greece	1,800,000 Dr.
<b>11. EPEAEK Graduate Studies Program</b>	1998-2003
Department of Chemistry – University of Crete	
“Synthesis and Isolation of Natural Products with Biological Activity”	
Participant Faculty Member	
Amount of Grant 1998-2000:	348,000,000 Dr.
Amount of Grant 2000-2001:	22,000,000 Dr.
Amount of Grant 2001-2003 (EKT and ETPA):	112,000 Euros
<b>12. EPEAEK Graduate Studies Program</b>	2001-2003
Department of Chemistry – University of Crete	
“Applied Molecular Spectroscopy”	
Participant Faculty Member	
Amount of Grant 2001-2003 (EKT and ETPA):	240,000 Euros
<b>13. EPEAEK Graduate Studies Program</b>	1998-2003
Department of Chemistry – University of Crete	
“Bioinorganic Chemistry”	
Participant Faculty Member	
Amount of Grant 1998-2000:	321,266,000 Dr.
Amount of Grant 2000-2001:	22,000,000 Dr.
Amount of Grant (EKT and ETPIA):	288,000 Euros
<b>14. “Synthesis, Structure, Physical Properties, Solution Speciation ...of Potentially Insulin-Mimetic Vanadium Compounds”</b>	
Cost D8-0022-97 Program of the European Union	1997-2001
Cost D21-0009-01 Program of the European Union	2001-2003
Partner Investigator	
Amount of Grant:	max 50,000 €/investigator
Coverage: α) Transportation, Room and Board, and Experimental Expenses of Graduate Students in Participating D21 Labs	
β) Transportation to D21 Conferences and Working Group Meetings	
<b>15. Aluminum Neurotoxicology: an Interdisciplinary approach to the study of the metal speciation in chemistry and Biology</b>	
Cost D8-0014-97 Program of the European Union	1998-2001
Partner Investigator	
Amount of Grant:	max 50,000 €/investigator
Coverage: α) Transportation, Room and Board, and Experimental Expenses of Graduate Students in Participating D8 Labs	
β) Transportation to D8 Conferences and Working Group Meetings	
<b>16. Aluminum dicarboxylic and aminophosphonic acid complex aqueous chemistry relevant to Alzheimer's disease</b>	2001- 2003
General Secretariat of Research and Technology	
Bilateral Collaboration between Romania and Greece	

Principal Investigator	4,900,000 Dr.
<b>17. Cost Action D29 of the European Union:</b>	2001-2007
Sustainable/Green Chemistry and Chemical Technology	
Action Title: Sustainable/Green Chemistry and Chemical Technology	
Domain: Chemistry and Molecular Sciences and Technologies	
Partner Investigator	
Amount of Grant:	max 50,000 €/investigator
Coverage: a) Transportation, Room and Board, and Experimental	
Expenses of Graduate Students in Participating D8 Labs	
b) Transportation to D29 Conferences and	
Working Group Meetings	
c) Short Term Scientific Missions (1,200 € per student per STSM)	
<b>18. Aqueous Al(III)-phosphonate species relevant to the interactions</b>	2004-2007
of neurotoxic Al(III) with the aberrant hyperphosphorylated	
protein $\tau$ (tau) in the neurofibrillary tangles of Alzheimer's	
disease.	
General Secretariat of Research and Technology	
Bilateral Collaboration between Romania and Greece	
Principal Investigator	12,191 €
<b>19. EPEAEK Undergraduate Program</b>	2003-2006
“Upgrading of Undergraduate Studies Program”	
Principal Investigator from 2003 up to transfer to AUTH	
(EKT and ETIIA)	310,000 €
<b>20. Synthetic, spectroscopic and structural studies in the speciation</b>	2003-2005
Of insulin mimetic vanadium in the presence of physiological	
and biomimetic substrates in aqueous media	
Heraklitos Program: Research Scholarships with	
Priority given to Basic Research	
Principal Investigator	34,000 €
<b>21. Fluorescence sensors of heavy metal ions with</b>	2004-2007
new selective fluorescence ligands	
Synthesis, physicochemical characterization and	
applications of complexes between heavy metal ions	
with new selective fluorimetric substrates	
Pythagoras Program: Support of University Research Groups	
Principal Investigator	50,000 €
<b>22. Study and development of toxic metal ion fluorescence</b>	2005-2008
sensors in the environment through the use of HPLC-PCD	
chromatography	
PENED Program 2003	
Principal Investigator	165,000 €
<b>23. Study of the interaction of biotoxic metal ions with minisatellite</b>	2010-2013

DNA and consequences on the transcriptional regulation of the H-Ras oncogene

Heraklitos II: Support of human research capital through implementation of doctoral research

Principal Investigator 50,000 €

**24. New Developments of Chemical Engineering in Functional Materials and Cutting Edge Technologies for the Development of Advanced Materials and Services**

Principal Investigator 450,000 €

## **ACTIVE COLLABORATION WITH OTHER LABS**

- 1.** “Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy of Sciences, 125 Calea Victoriei, Sector 1, Bucharest, RO-010071, Romania  
Collaborators: Elena Gabriella Ionita
- 2.** Department of Chemistry, University of Bucharest, Panduri 90-92, Bucharest 050663, Romania  
Collaborators: Petre Ionita
- 3.** Institute of Materials Science, NRCPS “Demokritos”, Aghia Paraskevi 15310, Attiki, Greece.  
Collaborators: A. Terzis, C. P. Raptopoulou, V. Psycharis
- 4.** Institut für Experimentelle Physik II, Universität Leipzig, Leipzig 04103, Germany.  
Collaborators: M. Bertmer
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- 26.** Section of Sciences, Academy of Sciences of Romania, Bucharest, Romania  
Collaborators: Academician E. Sahini, Prof. S. Ionescu

- 27.** Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest,  
Bucharest, Romania  
Collaborators: C. Guran
- 28.** National Research & Development Institute for Electrochemistry and Condensed Matter,  
(INCEMC Timisoara), Department of Condensed Matter, Timisoara, Romania.  
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- 29.** Laboratoire de Chimie de Coordination du CNRS, 205 route de Narbonne, 31077  
Toulouse Cedex, France  
Collaborator: J.-P. Tuchagues

## PRESENTATION OF RESEARCH ACTIVITIES

### *Invited and Plenary Lectures*

#### **International Meetings – Institutes - Universities**

#### **Papers Presented and Published in the Archives of International Conferences**

1. “The chemistry and mechanistic biology of vanadium as an anticancer agent”  
**Invited Lecture**  
*12<sup>th</sup> European Biological Inorganic Chemistry Conference (Eurobic 12)*  
University of Zürich  
August 24-28, Zürich, Switzerland
2. “Structure lattice-dimensionality correlations in novel binary and ternary materials of group 13 elements with benzoic acid and phenanthroline”  
**Plenary Lecture**  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
3. “The rise and fall of copper as a neurometallotoxin in degeneration”  
**Plenary Lecture**  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
“King Michael I of Romania” from Timisoara  
May 29-30, 2014, Timisoara, Romania
4. “New trends in nanotechnology linked to antioxidant power in live organisms and food stuffs”  
**Plenary Lecture**  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
“King Michael I of Romania” from Timisoara  
May 29-30, 2014, Timisoara, Romania
5. “The interplay of ras oncogenes and immune suppressor genes in colorectal cancer.”  
**Invited Lecture**  
Research Institute of the West University of Timisoara  
West University of Timisoara  
March 14, 2014, Timisoara, Romania
6. “Development of vanadodrugs in cancer therapeutics. An interdisciplinary challenge.”  
**Plenary Lecture**  
*International Conference of Physical Chemistry*  
*Romphyschem 15*

Romanian Academy of Sciences  
September 11-13, 2013, Bucharest, Romania

7. “Vanadodrugs as antitumor agents. The chemistry and in vitro biology of novel vanado-peroxido-betaine species.”  
**Keynote Lecture**  
*International Conference on BioInorganic Chemistry ICBIC 16*  
July 22-26, 2013, Grenoble, France
8. “Technological Advancements in the Design of Antitumorigenic Vanadodrugs”  
**Plenary Lecture**  
*13<sup>th</sup> Edition of Academic Days Timisoara Chemistry Symposium- New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
June 13-14, 2013, Timișoara, Romania
9. “The Chemistry and Biology of Engineering Anticancer Metallodrugs”  
**Plenary Lecture**  
*5<sup>th</sup> International Congress and the 31<sup>st</sup> Annual Scientific Session of the Romanian Society for Cell Biology*  
June 5-9, 2013, Timișoara, Romania
10. “Molecular approaches to the development of diagnostic technology in Alzheimer’s disease”  
**Plenary Lecture**  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
*Banat University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timisoara*  
May 30-31, 2013, Timișoara, Romania
11. “Design of Lead(II) metal organic framework materials with distinct architecture and chemical reactivity”  
**Invited Lecture**  
*National Institute of Research and Development for Electrochemistry and Condensed Matter (INCEMC)*  
May 28, 2013, Timisoara, Romania
12. “Developing metallodrugs in cancer therapy. Design, synthesis and biological studies of vanadodrugs.”  
**Invited Lecture**  
Research Institute of the West University of Timisoara  
West University of Timisoara  
March 21, 2013, Timisoara, Romania
13. “Metal-induced oxidative damage in the neurodegeneration process of Alzheimer’s disease. Molecules of natural origin in the neuroprotection and development of diagnostic biomarkers.”  
**Invited Lecture**



*8<sup>o</sup> Panhellenic Conference of Alzheimer's Disease*  
February 28-March 3, 2013, Thessaloniki, Greece

14. "Investigation of the oxidative stress of natural copper species in Alzheimer's disease. Molecular interactions and neuroprotection."

**Invited Lecture**

Tsave O., Salifoglou A.

*8<sup>o</sup> Panhellenic Conference of Alzheimer's Disease*  
February 28-March 3, 2013, Thessaloniki, Greece

15. "Lead(II) as a template for the design, assembly, and lattice architecture of binary and ternary metal organic framework compounds of variable dimensionality and chemical reactivity"

**Plenary Lecture**

*New Trends and Strategies in the Chemistry of Advanced Materials*  
November 8-9, 2012, Timisoara, Romania

16. "Molecular Approaches to Insulin Mimetic Vanadium Drugs"

**Plenary Lecture**

*XXXII Romanian Chemistry Conference*  
October 3-5, 2012, Calimanesti-Caciulata, Valcea, Romania

17. "The diverse bioinorganic chemistry in the aqueous structural speciation of ternary systems of V(V) with amino acids/betaines and hydrogen peroxide"

**Keynote Lecture**

*European Biological Inorganic Chemistry II (EUROBIC II) Conference*  
September 12-16, 2012, Granada, Spain

18. "Building 1D-3D lattice structures through targeted binary and ternary interactions in Pb(II)-carboxylate systems. A rational approach to new architectures"

**Invited Lecture**

Institute of Physical Chemistry "Ilie G. Murgulescu"  
Romanian Academy of Sciences  
June 21, 2012, Bucharest, Romania

19. "The chemistry and toxicity of cadmium at the molecular level. A treatise at the chemical and genetic level."

**Invited Lecture**

Department of Chemistry  
University of Bucharest  
June 19, 2012, Bucharest, Romania

20. "The prospect of an innovative M.Sc. Program in Agroalimentary Engineering in Romania. The Foundations of a collaborative venture between Academia and Industry."

**Invited Lecture**

*Workshop on the "M.Sc. Program Development in the Field of Alimentary Production Engineering and Agricultural Economics."*  
May 11, 2012, Timișoara, Romania

21. “The influence of the environmental metallotoxin Al(III) on neuronal cell structures linked to neurodegeneration”  
**Plenary Lecture**  
*The 3<sup>rd</sup> International Conference on Food Chemistry, Engineering & Technology*  
 May 10-11, 2012, Timișoara, Romania
  
22. “Toward delineation of interactions of biotoxic cadmium with the H-Ras oncogene in carcinogenesis.”  
**Invited Lecture**  
*Institute of Chemistry of the Romanian Academy of Science*  
 May 8, 2012, Timisoara, Romania
  
23. “Advancements of Aqueous Binary and Ternary Vanadium Chemistry with Physiological Substrates in Insulin Mimesis”  
**Invited Lecture**  
*12<sup>th</sup> Eurasia Conference on Chemical Sciences*  
 April 16-21, 2012, Corfu, Greece.
  
24. “Growth in a time of crisis at the University. A feeble dream or reality”  
**Invited Lecture**  
 West University of Timisoara  
 March 22, 2012, Timisoara, Romania
  
25. “Investigation of neurodegenerative processes geared toward neuroprotection in Alzheimer’s disease. Potential development of protective technologies.”  
**Plenary Lecture**  
*Inorganic and Bioinorganic Chemistry*  
*21<sup>o</sup> Pan-Hellenic Conference in Chemistry*  
 December 9-12, 2011, Thessaloniki, Greece
  
26. “Heterogeneity in the etiopathogenesis of neurodegeneration in Alzheimer’s disease”  
**Invited Lecture**  
*Institute of Neurodegenerative Diseases and Greek Association of Alzheimer's Disease and Related Disorders*  
*Tele-education on issues of Dementia for Health Professionals*  
 November 14, 2011, Thessaloniki, Greece
  
27. “Making strides in the pathogenesis of neurodegenerative diseases. The case of metallo-induced neurodegenerative death in Alzheimer”  
**Invited Lecture**  
*Institute of Physical Chemistry “Ilie Murgulescu”*  
*Romanian Academy of Sciences*  
 November 4, 2011, Bucharest, Romania
  
28. “The extraordinary versatility of the ternary vanadium-peroxo-organic acid chemistry and its biological potential”  
**Plenary Lecture**

*New Trends and Strategies in the Chemistry of Advanced Materials*  
*Institute of Chemistry of the Romanian Academy of Science*  
November 3-4, 2011, Timisoara, Romania

29. “Comprehending fundamental processes in neurodegeneration. From the early stages to Alzheimer’s disease”

**Invited Presentation**

*Greek Association of Alzheimer's Disease and Related Disorders*  
Electra Palace Hotel  
October 12, 2011, Thessaloniki, Greece

30. “Diagnostic challenges in the early stages of dementia in Alzheimer’s disease.”

**Invited Lecture**

*Institute of Neurodegenerative Diseases and Greek Association of Alzheimer's Disease and Related Disorders*  
*Tele-education on issues of Dementia for Health Professionals*  
September 22, 2011, Thessaloniki, Greece

31. “Aqueous insulin mimetic vanadium chemistry with physiological substrates at the binary and ternary level.”

**Invited Lecture**

*Workshop on “Metal Containing Drugs”*  
*Meeting of the Inorganic Chemistry Committee of the Szeged Branch of the Hungarian Chemical Society.*  
*University of Szeged*  
August 30-31, 2011, Szeged, Hungary

32. “The influence of biotoxic Al(III) on the function of NMDA and VDCC channels of neuronal hippocampal cells. From neurotoxicity to neuroprotection technologies.”

**Plenary Lecture**

*Timisoara’s Academic Days, XII Edition*  
*Institute of Chemistry of the Romanian Academy of Science*  
May 26-27, 2011, Timisoara, Romania

33. “The chemistry of vanadium with amino acids and their derivatives. relevance to health and disease”

**Plenary Lecture**

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 19-20, 2011, Timișoara, Romania

34. “From Vision to Innovation. Strategy in a Time of Crisis”

**Invited Lecture**

Department of Chemistry-Biology-Geography  
West University of Timisoara  
March 17, 2011, Timisoara, Romania

35. “The influence of biotoxic aluminum on the neurodegenerative action of the A $\beta$  amyloid peptide. An in vitro approach to the synergy of two toxins involved in Alzheimer’s degeneration”  
**Plenary Lecture**  
*7<sup>th</sup> National Conference in Alzheimer’s Disease and Related Disorders*  
 February 16-20, 2011, Thessaloniki, Greece
  
36. “In Search of Rational Approaches to the Chemistry of Advanced Materials”  
**Plenary Lecture**  
*New Trends and Strategies in the Chemistry of Advanced Materials*  
 November 4-5, 2010, Timisoara, Romania
  
37. “From Etiopathogenesis to Diagnosis and Therapy in Alzheimer’s Disease: Research and Merit of Technological Applications”  
**Invited Lecture**  
*Institute of Neurodegenerative Diseases and Greek Association of Alzheimer’s Disease and Related Disorders*  
*Tele-education on issues of Dementia for Health Professionals*  
 October 11, 2010, Thessaloniki, Greece
  
38. “The Aqueous Chemistry of Binary and Ternary Co(II)-carboxylate Systems. From Small Molecules to Extended Solid-State Lattices.”  
**Invited Lecture**  
*National Institute of Research and Development for Electrochemistry and Condensed Matter (INCEMC)*  
 June 1, 2010, Timisoara, Romania
  
39. “A Structural Speciation Strategy Toward Understanding the Chemistry of Cadmium Molecular Toxicity.”  
**Invited Lecture**  
*Institute of Chemistry of the Romanian Academy of Science*  
 June 2, 2010, Timisoara, Romania
  
40. “Iron in Plants. A Structural Speciation Approach to Nature’s Biology”  
**Plenary Lecture**  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
 June 3 – 4, 2010, Timișoara, Romania
  
41. “In search of molecular etiopathological factors in neurodegenerative processes. Metallotoxin effects on NMDA and VDCC channels in hippocampal cells”  
**Invited Lecture**  
*25<sup>th</sup> International Conference of Alzheimer’s Disease International (ADI)*  
 March 10-13, 2010, Thessaloniki, Greece.
  
42. “Structural Speciation and Biological Activity of Binary and Ternary Compounds of Insulin Mimetic Vanadium with physiological Substrates”  
**Plenary Lecture**  
*7<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*

October 13-15, 2009, Athens, Greece.

- 43.** “The Complex Aqueous Chemistry of Al(III) in Binary Systems Involving Biologically Relevant Substrates. Relevance to Toxicity”  
**Session Lecture**  
*10<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry*  
*ISABC 10*  
25 - 28 September, 2009, Debrecen, Hungary.
- 44.** “The Molecular Basis of Metallopharmaceutical Technologies in Diabetes Mellitus II”  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
- 45.** “The Neurobioinorganic Chemistry of Alzheimer’s Disease”  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
- 46.** “Synthetic Investigation and Biological Exploration of insulin Mimetic Vanadium Complexes with Physiological Substrates”  
**Plenary Lecture**  
*Timisoara’s Academic Days – XI Edition*  
*Chemistry Symposium*  
Institute of Chemistry of the Romanian Academy of Science  
May 28-29, 2009, Timisoara, Romania
- 47.** “Structural Speciation in the Binary System of Cd(II) with Hydroxycarboxylate Substrates”  
**Plenary Lecture**  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania
- 48.** “Metal Ions in Subcellular Communication. Influence on Cellular Physiology and Pathology”  
**Invited Lecture**  
Romanian Academy of Sciences  
Timisoara  
April 2, 2009, Timisoara, Romania
- 49.** “Structural Speciation Studies in Binary Aqueous Al(III) Systems of Relevance to Neurodegenerative Disease”  
**Invited Lecture**  
*The Eighth Keele Meeting on Aluminium*  
21-25 February, 2009, Trest, Czech Republic
- 50.** “Graduate Programs and Multidisciplinary Fields”

**Invited Lecture**

Department of Physics  
Aristotle University of Thessaloniki  
November 26, 2008, Thessaloniki, Greece

51. “Understanding the Interwoven Chemistry and Biology of Risk Factors at the Molecular and Neurocellular Level in Alzheimer’s Disease”

**Plenary Lecture**

International Conference of Physical Chemistry, ROMPHYSCHEM13 Conference  
September 3-8, 2008, Bucharest, Romania

52. “New Ternary and Binary Species in the Structural Speciation of Insulin Mimetic Vanadium(V) in the Presence of the Physiological Citrate and Hydrogen Peroxide”

**Invited Lecture**

6<sup>th</sup> International Vanadium Symposium  
July 17-19, 2008, Lisbon, Portugal

53. “The Importance of Plant Substrates in Interactions with the Bioessential Metal Ion Co(II) ”

**Plenary Lecture**

*New Trends in Food Safety and Processing Symposium*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May 15-16, 2008, Timisoara, Romania

54. “Aqueous Ni(II)-Phosphonate Chemistry of Biological Sciences”  
M. Menelaou, M. Dakanali, A. Salifoglou

**Invited Lecture**

*New Trends in Food Safety and Processing Symposium*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May 15-16, 2008, Timisoara, Romania

55. “Chromium Hydroxycarboxylate Chemistry of Bioinorganic Significance”

**Invited Lecture**

Romanian Academy of Sciences  
Timisoara  
May 13, 2008, Timisoara, Romania

56. “Molecular Aspects of Chromium Toxicity. From Aqueous Solution Chemistry to Synthetic Species”

**Invited Lecture**

Department of Chemistry, Biology and Geography  
West University of Timisoara  
March 31, 2008, Timisoara, Romania

57. “The Research Puzzle of the Neurodegenerative Alzheimer’s Disease. Key words colored by Basic Science and Technology”

**Invited Lecture**

Lyceum  
Arsakion School of Thessaloniki

March 18, 2008, Thessaloniki, Greece

- 58.** "Metal Biotoxicity and Oxidative Stress in Neurodegeneration. The Case of Alzheimer's Disease"  
**Invited Lecture**  
National Hellenic Research Foundation  
Institute of Organic & Pharmaceutical Chemistry  
March 11, 2008, Athens, Greece
- 59.** "Advances in Insulin Mimetic Chemistry of Vanadium with Low Molecular Mass Physiological Substrates"  
**Invited Lecture**  
2nd European Conference on Chemistry for Life Sciences  
September 4-8, 2007, Wrocław, Poland
- 60.** "Delineating the Structural Speciation of Insulin Mimetic Vanadium with Physiological Ligands"  
**Invited Lecture**  
*FIGIPAS 9 Meeting in Inorganic Chemistry*  
July 4-7, 2007, Vienna, Austria
- 61.** "Unravelling the structural speciation of aqueous binary Cr(III)-hydroxycarboxylate systems"  
**Invited Lecture**  
*Second North America-Greece-Cyprus Workshop on Paramagnetic Materials*  
June 18-21, 2007, Ermoupolis, Syros, Greece
- 62.** "Soluble and Potentially Bioavailable Fe(III) Species in Plants. A Structural Speciation Approach"  
**Plenary Lecture**  
Romanian Academy  
*Timisoara's Academic Days, X<sup>th</sup> Edition*  
*Section Chemistry*  
May, 24-25, 2007, Timisoara, Romania
- 63.** "Molecular Aspects of Chromium Toxicity. Chemistry of Binary Systems in Relevance to Food and Biosystems"  
**Plenary Lecture**  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 64.** "Structural Speciation of Titanium with Low Molecular Mass Physiological Substrates"  
**Invited Lecture**  
Department of Inorganic and Analytical Chemistry  
University of Szeged  
May 8, 2007, Timisoara, Romania

65. "Metalloneurotoxicity in the Etiopathogenesis of Alzheimer's Disease"  
**Plenary Lecture**  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
 April 27-30, 2007, Larnaca, Cyprus
  
66. "Metal Ions and Oxidative Stress in Alzheimer's Neurodegeneration"  
**Invited Lecture**  
 University Politehnica of Bucharest  
 Faculty of Applied Chemistry and Materials Science  
 March 20, 2007, Bucharest, Romania
  
67. "Development of Aqueous Vanadium Chemistry Targeting Insulin Mimetic Drugs"  
**Invited Lecture**  
 Department of Chemistry, Biology and Geography  
 West University of Timisoara  
 March 8, 2007, Timisoara, Romania
  
68. "Iron Mobilization and Utilization in the Formation of Dinuclear and Tetranuclear Fe-S Proteins"  
**Invited Lecture**  
 Department of Chemistry, Biology and Geography  
 West University of Timisoara  
 March 7, 2007, Timisoara, Romania
  
69. "Oxidative and Antioxidant Chemistry in the Development of Technology"  
**Invited Lecture**  
 Department of Chemical Engineering  
 Ege University  
 March 1, 2007, Izmir, Turkey
  
70. "Neurotoxic Metal Ions and Oxidative Stress in Alzheimer's Disease"  
**Invited Lecture**  
 "Oxidative Stress and Dementia"  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
 February 22-25, 2007, Thessaloniki, Greece
  
71. "Environmental Chemosensor Technology on Metallotoxins"  
**Invited Lecture**  
*SEE-ERA.NET Scientific Conference on "Environmental Technologies"*  
 6-8 February, 2007, Pržno, Montenegro
  
72. "Synthetic and structural studies of aqueous vanadium(IV,V) hydroxycarboxylate compounds"  
**Invited Lecture**  
*232<sup>nd</sup> Meeting of the American Chemical Society*  
*The 5<sup>th</sup> International Symposium on the Chemistry and Biological Chemistry of Vanadium*  
 September 10-14, 2006, San Francisco, California, U.S.A.



73. “Fundamental chemical processes of the etiopathogenesis in Alzheimer's disease from small molecule to large biomolecule participation”  
**Plenary Lecture**  
*International Conference on Physical Chemistry*  
*Romphyschem-12*  
*and 5<sup>th</sup> Annual COSENT Meeting*  
 September 6 - 8, 2006, Bucharest - Romania
74. “Aqueous synthetic endeavors in insulin mimetic vanadium chemistry”  
**Invited Lecture**  
*8th European Biological Inorganic Chemistry Conference*  
*Eurobic 8*  
 July 2-6, 2006, Aveiro, Portugal.
75. “The challenging intrigue of the multifaceted aqueous chemistry of vanadium with hydroxycarboxylic acids”  
**Invited Lecture**  
*COST Chemistry D21*  
*Final Workshop on “Metalloenzymes and Chemical Biomimetics”*  
 Katholieke Universiteit Leuven  
 May 25-28, 2006, Leuven, Belgium
76. “Discovering the Connections of the Aqueous Chemistry of Ti(IV) to Cellular Biochemistry. Relevance to Food and Health”  
**Invited Lecture**  
*New Trends in Food Safety and Food Technology*  
 May 25-26, 2006, Timisoara, Romania
77. “Synthetic Inorganic Chemistry in the exploration of the antioxidant activity of aqueous plant infusions”  
**Invited Lecture**  
 Romanian National Academy  
 Institute of Chemistry  
 May 23, 2006, Timisoara, Romania
78. “The antioxidant line of defence in natural products. Systematic approaches to unravel secrets at the molecular level”  
**Invited Lecture**  
 Faculty of Applied Chemistry and Materials Science  
 Politehnica University of Bucharest  
 April 14-19, 2006, Bucharest, Romania
79. “The Aqueous Chemistry of Titanium with Low Molecular Mass Bio-Substrates. From Predictions to Structural Speciation.”  
**Invited Lecture**  
 West University of Timisoara  
 April 6, 2006, Timisoara, Romania
80. “The Role of Metal Ions in the Assembly and Function of Iron-Sulfur Proteins”

**Invited Lecture**

West University of Timisoara  
April 5, 2006, Timisoara, Romania

81. "The two sides of a titanium "coin". From titanium materials to the structural speciation with physiological substrates"

**Invited Lecture**

Faculty of Applied Chemistry and Materials Science  
Politehnica University of Bucharest  
October 23-27, 2005, Bucharest, Romania

82. "Advances in the aqueous chemistry of vanadium with physiological substrates. A step toward understanding vanadium drugs in insulin mimesis"

**Invited Lecture**

Politehnica University of Bucharest  
October 23-27, 2005, Bucharest, Romania

83. "Investigation of the structural speciation of binary and ternary titanium systems in environmental and biologically relevant fluids"

**Plenary Lecture**

*5<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 13-15, 2005, Athens, Greece

84. "Advances in aqueous vanadium synthetic chemistry of insulin mimetic interest"

**Invited Lecture**

*COST D21/009/01 WG Meeting*  
*Insulin mimetic vanadium compounds*  
October 1-2, 2005, Thessaloniki, Greece

85. "The intricacies and revelations of insulin mimetic vanadium chemistry"

**Invited Lecture**

*X<sup>th</sup> International Symposium on Bioinorganic Chemistry*  
*Challenge for a New Generation*  
September 20-25, 2005, Szklarska Poreba, Poland

86. "Aqueous chemistry advances with variable oxidation state vanadium ions"

**Invited Lecture**

*1<sup>st</sup> D29/016/04 COST Working Group Meeting on*  
"Novel sustainable metal catalysed oxidations with H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub>"  
Université Pierre et Marie Curie  
July 9-10, 2005, Paris, France

87. "Vanadium metallodrugs in insulin mimesis. synthetic trials and mechanistic details in ternary  
Vanadium-citrate-hydrogen peroxide systems"

**Session Lecture**

*Symposium on "Metals in Medicine"*  
*8<sup>th</sup> FIGIPAS Meeting in Inorganic Chemistry*  
July 6-9, 2005, Athens, Greece

88. “Oxidative Stress in neurodegenerative dementias. From the clinical level of observation to the molecular level of cytochemistry”  
**Plenary Lecture**  
*SAFE FOOD ALL OVER EUROPE*  
*11<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
89. “An in depth investigation of the structural speciation in the binary Ti(IV)-citric acid aqueous system. Relevance to food and health”  
**Invited Lecture**  
*Symposium on “Inorganic Chemistry and Technology and Analytical Chemistry”*  
*Section of Inorganic Chemistry*  
*Timisoara’s Academic Days 2005*  
 Politehnika (School of Engineering)  
 May 26-27, 2005, Timisoara, Romania
90. “Probing the antioxidant activity of natural substances against pro-oxidant metal ions. The case of naturally derived extracts from Mediterranean plants”  
**Invited Lecture**  
 Faculty of Engineering  
 Aurel Vlaicu University of Arad  
 May 24, 2005, Arad, Romania
91. “Oxidative stress in Alzheimer’s disease. The road of a complex process toward neurodegeneration”  
**Invited Lecture**  
*4<sup>th</sup> Multidisciplinary Conference on Alzheimer’s Disease and Related Disorders*  
 March 31-April 2, 2005  
 Thessaloniki, Greece
92. “The basic aqueous (bio)chemistry of vanadium in the development of insulin mimetic drugs for Diabetes mellitus type II”  
**Invited Lecture**  
 2<sup>nd</sup> Scientific Conference of the Chemical Process Engineering Research Institute  
 December 15-16, 2004  
 Thermi, Thessaloniki, Greece
93. “The advent of aqueous vanadium-hydroxycarboxylate synthetic chemistry in insulin mimesis”  
**Invited Lecture**  
*2<sup>nd</sup> Central European Conference*  
*“Chemistry towards Biology”*  
 September 25-30, 2004, Seggau, Austria
94. “Synthetic and mechanistic aspects of aqueous vanadium(IV,V) chemistry in the presence of physiological ligands”  
**Invited Lecture**

*3<sup>rd</sup> D21/009/01 COST Working Group Meeting on Insulin-Mimetic Vanadium Compounds*

6-7 September, 2004

Department of Inorganic and Analytical Chemistry, University of Szeged, Szeged, Hungary

95. “The Aqueous Chemistry of Biologically Relevant Vanadium-Hydroxycarboxylate Systems”  
**Invited Lecture**  
*4<sup>th</sup> International Symposium on the Chemistry and Biological Chemistry of Vanadium*  
3-5 September, 2004, Szeged, Hungary
96. “Insulin Mimetic Vanadium in Diabetes Mellitus II. Biological Revelations in a Biological Milieu”  
**Invited Lecture**  
*4<sup>th</sup> International Conference of the Chemical Societies of the South-East European Countries.*  
*"Chemical Sciences in Changing Times: Visions, Challenges and Solutions"*  
July 18-21, 2004, Belgrade, Yugoslavia
97. “Natural Antioxidants against Iron-Dependent Pro-Oxidant Processes in Humans”  
**Plenary Lecture**  
*10<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2004*  
Banat University of Agricultural and Veterinary Medicine  
May 20-21, 2004, Timisoara, Romania
98. “Looking into chemical aspects of oxidative stress as an etiopathogenic factor in Alzheimer's disease”  
**Invited Lecture**  
Medical and Pharmaceutical University  
May 21, 2004, Timisoara, Romania
99. “Oxidative Theory in the Neurodegenerative Disease of Alzheimer’s”  
**Plenary Lecture**  
*10<sup>th</sup> Aristotle University Medical School Symposium on Alzheimer Disease*  
March 25, 2004, Thessaloniki, Greece
100. “Chemical Pathways in the Aqueous Chemistry of Insulin-mimetic Vanadium in the Presence of physiological Ligands: A Mechanistic View”  
**Invited Lecture**  
*Inorganic Reaction Mechanisms Meeting 2003*  
*Royal Society of London*  
*Dalton Division*  
January 8-10, 2004, Athens, Greece
101. “Vanadium ions in pursuit of insulin mimetic action in humans”  
**Plenary Lecture**  
*4<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 9-11, 2003, Athens, Greece

- 102.** “The oxidative theory in Alzheimer’s disease. Employment of physicochemical techniques in the delineation of an intricate biological problem.”  
**Plenary lecture**  
*11<sup>th</sup> Physical Chemistry Conference with International Participation*  
*ROMPHYSCHEM 11*  
 September 2-5, 2003, Timișoara, Romania.
- 103.** “Vanadium aqueous chemistry in insulin mimesis. From synthesis to mechanistic insight of vanadium ternary interactions with physiological ligands.”  
**Conference Lecture**  
*11<sup>th</sup> Physical Chemistry Conference with International Participation*  
*ROMPHYSCHEM 11*  
 September 2-5, 2003, Timișoara, Romania.
- 104.** “Chemical approaches to a biomedical problem in a human dimension. The oxidative theory and the riddle of Alzheimer’s disease”  
*13<sup>th</sup> Alzheimer Europe Conference and 3<sup>rd</sup> Hellenic National Alzheimer Disease and Related Disorders Conference*  
 June 12-15, 2003, Thessaloniki, Greece.
- 105.** “Aqueous vanadium chemistry and insulin mimesis. From the synthetic chemistry to the biological activity of vanadium.”  
 Universitatea “Politehnica” Timișoara  
 Facultatea de Chimie Industrială și Ingineria Mediului  
 Institutul de Chimie al Academiei  
 May 23, 2003, Timișoara, Romania
- 106.** “Seeking quality of life out of vanadium chemistry”  
 Universitatea de Științe Agricole și Medicină Veterinară a Banatului  
 Facultatea de Tehnologie Produselor Agroalimentare  
*9<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2003*  
 May 22, 2003, Timișoara, Romania
- 107.** “Vanadium-peroxo-carboxylate chemistry in aqueous solutions”  
 Department of Inorganic and Analytical Chemistry  
 University of Szeged  
 April 23, 2003, Szeged, Hungary
- 108.** “Vanadium insulin mimetic chemistry. The beautiful chemistry and the riddle of insulin mimesis”  
*5<sup>th</sup> Conference of the Department of Chemistry*  
*25 Year Anniversary of the Department of Chemistry of the University of Ioannina (1977-1982)*  
 University of Ioannina  
 Department of Chemistry  
 October 22, 2002, Ioannina, Greece
- 109.** “The aqueous aluminum chemistry with physiological substrates and its neurotoxic

implications in a wide spectrum of organisms including humans.”

West University of Timisoara

Faculty of Chemistry, Biology and Geography

October 3, 2002, Timisoara, Romania.

- 110.** “Aluminum toxicity in Alzheimer’s disease. From the chemistry to the biology of neurotoxicity.”  
Banat University of Agricultural Science and Veterinary Medicine  
Department of Horticulture and Agriculture  
October 2, 2002, Timisoara, Romania.
- 111.** “Biomimetic approaches to aqueous insulin mimetic vanadium chemistry. From the reaction flask to the cell culture.”  
Romanian Academy Institute of Chemistry.  
October 1, 2002, Timisoara, Romania.
- 112.** “Studies of structural speciation of aluminium with physiological ligands in aqueous media. From the acidification of the environment and the habitual dietary exposure to aluminium to the potential linkage to neurotoxic and degenerative diseases.”  
Banat University of Agricultural Science and Veterinary Medicine  
Department of Food Processing Technology  
*8<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Academic Days in Timisoara 2002*  
September 30, 2002, Timisoara, Romania.
- 113.** “The rise of new species in the pH-dependent chemistry of aqueous vanadium tricarboxylate systems.”  
*Joint D21 and D12 Working Group Meeting COST on Insulin-Mimetic Vanadium Compounds*  
May 31-June 2, 2002, Lisbon, Portugal.
- 114.** “Complex communications in aqueous vanadium speciation”  
Department of Inorganic and Analytical Chemistry,  
University of Szeged  
March 19, 2002, Szeged, Hungary.
- 115.** “Metal Induced Oxidative Processes in Alzheimer’s Disease.”  
*2nd Panhellenic Congress of Alzheimer’s Disease*  
January 17-20, 2002, Thessaloniki, Greece.
- 116.** “Unraveling the structural speciation of neurotoxic aluminum in aqueous solutions. A shy step toward solving an intricate riddle in Alzheimer’s disease.”  
Department of Chemistry,  
Aristotle University of Thessaloniki  
November 22, 2001, Thessaloniki, Greece
- 117.** “Vanadium carboxylate chemistry as a tool of vanadium-citrate aqueous speciation. Potential relevance to the insulin mimetic activity of vanadium”  
Department of Chemical Engineering  
Faculty of Engineering

Aristotle University of Thessaloniki  
November 21, 2001, Thessaloniki, Greece

118. "Fundamental aspects of aluminum carboxylate chemistry in relation to biotoxicity of that element in humans"  
*3<sup>rd</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 4-6, 2001, Athens, Greece
119. "Carboxylic acids in vanadium aqueous chemistry. The perspective of solution and solid state properties of species in biologically relevant vanadium activity."  
*Joint D21 and D12 Working Group Meeting COST on Insulin-Mimetic Vanadium Compounds*  
September 14-16, 2001, Hamburg, Germany.
120. "Advances in the aqueous chemistry of biotoxic aluminum, in relevance to neurodegenerative diseases"  
*6<sup>th</sup> FIGIPS Meeting in Inorganic Chemistry*  
July 16-20, 2001, Barcelona, Spain.
121. "Aqueous aluminum-carboxylate chemistry. Prospects of its potential relevance to Alzheimer's disease"  
*7<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2001*  
Banat's University of Agricultural Sciences and Veterinary Medicine.  
Faculty of Agrofood Technologies  
May 24-25, 2001, Timisoara, Romania
122. "Synthetic approaches to the aluminum-carboxylate aqueous chemistry. Relevance to neurodegenerative diseases"  
Department of Chemistry  
University of Szeged  
February 8, 2001, Szeged, Hungary
123. "Synthetic transformations of dimeric vanadium complexes with carboxylic acids in aqueous solutions."  
*2<sup>nd</sup>. Working Group Meeting COST D8/0022/99 on Synthesis, Structure, Physical Properties, Solution Speciation and Biological Studies of Potentially Insulin-Mimetic Vanadium Compounds*  
September 30-October 1, 2000, Padova, Italy.
124. "Synthetic aluminum-citrate complexes and their possible relevance to Alzheimer's disease."  
**Session Lecture**  
*First International Conference on METALS IN THE BRAIN From Neurochemistry to neurodegeneration*  
University of Padova  
September 20-23, 2000, Padova, Italy
125. "The aqueous chemistry of aluminum in relation to its biotoxic involvement in the neurodegeneration of Alzheimer's disease."

*5<sup>th</sup> International Conference on Environmental Pollution*  
August 28- September 1, 2000, Thessaloniki, Greece.

- 126.** “Vanadium carboxylate chemistry and its biological relevance to insulinomimesis.”  
Department of Chemistry  
University of Bergen  
August 3, 2000, Bergen, Norway.
- 127.** “The aqueous chemistry of aluminum in relation to its biotoxic involvement in the neurodegeneration of Alzheimer’s disease.”  
**Session Lecture**  
*2nd International Conference of the Chemical Societies of the South-East European Countries. "Chemical Sciences and Industry"*  
June 1-4, 2000, Halkidiki, Greece.
- 128.** “Oxidation theory in Alzheimer’s disease.”  
**Session Lecture**  
*First Panhellenic Conference on Alzheimer’s Disease*  
January 13-16, 2000, Thessaloniki, Greece
- 129.** “Aqueous vanadium-tricarboxylate complexes and their potential use as insulin mimetic drugs.”  
Department of Chemistry.  
University of Szeged,  
December 3, 1999, Szeged, Hungary.
- 130.** “Bioinorganic synthetic chemistry in pursuit of the biological evolution of metalloenzymic systems containing Fe-S and Fe-O complexes.”  
Department of Chemistry  
Charles University  
November 9, 1999, Prague, The Czech Republic.
- 131.** “The aqueous chemistry of vanadium with tricarboxylic and dicarboxylic acids in biologically relevant media.”  
Department of Chemistry  
Charles University  
November 8, 1999, Prague, The Czech Republic.
- 132.** “Carboxylic acids in vanadium chemistry of aqueous solutions.”  
The Citrate Tale and its Biological Relevance.  
**Session Lecture**  
*5<sup>th</sup> FGIPS Meeting in Inorganic Chemistry*  
October 27-31, 1999, Toulouse, France.
- 133.** “Vanadium citrate interactions in aqueous solutions.”  
*COST D8 Meeting on Insulin-Mimetic Vanadium Compounds*  
*37<sup>th</sup> IUPAC Congress and 27<sup>th</sup> GDCh General Meeting*  
August 14-19, 1999, Berlin, Germany.
- 134.** “Aqueous vanadium complexes with carboxylic acids and their potential relevance to



biological systems."  
*COST D8 and ESF WORKSHOP on Biological and Medicinal Aspects of Metal Ion Speciation.*  
 August 22-25, Attila Jozsef University, Szeged, Hungary.

135. "Basic scientific and biotechnological advances in the field of methanotrophy and one of its fundamental metalloenzyme systems, Methane Monooxygenase (MMO)."  
 March 14, 1995, Foundation for Research and Technology Hellas (FO.R.T.H.), Heraklion, Crete, Greece.
136. "Dinuclear centers in Chemistry and Biology that do not contain the heme group. The attainment of a common research goal with separate but converging methods of approach."  
 March 17, 1995, University of Crete, Heraklion, Crete, Greece.
137. "Binuclear iron centers in bacterial enzymic systems. Inorganic and biochemical approaches to unraveling inter-protein symbiotic relationships."  
 January 15, 1992, Union Carbide Corporation, Bound Brook, New Jersey, U.S.A.
138. "Binuclear iron centers in metalloproteins. Synthetic inorganic models and naturally occurring metallosites in the biological arena of electron transfer and catalysis."  
 December 4, 1992, The Procter & Gamble Company, Cincinnati, Ohio, U.S.A.
139. "Unraveling the secrets of bacterial methane monooxygenase, a marvel of nature's bioengineering machinery."  
 November 13, 1992, Biotransplant Inc., Cambridge, Massachusetts.
140. "Synthetic approaches to the Fe/M/S center of the nitrogenase enzymic system."  
 February 1, 1990, Case Western Reserve University, Cleveland, Ohio, U.S.A.
141. "Synthetic inorganic clusters as models for the active site of the nitrogenase enzyme."  
 January 22, 1990, Boston University, Boston, Massachusetts, U.S.A.

## Participation in International and National Meetings

### Presentations in Institutions

### Publications in Symposia Proceedings

### Papers Presented and Published in the Archives of International and National Meetings

1. “Vanadium metallodrugs: from the design to the anticancer biology”  
A. Salifoglou  
*9<sup>th</sup> International Vanadium Symposium Chemistry, Biological Chemistry & Toxicology*  
Dipartimento Scienze Chimiche, University of Padova – Italy  
Dipartimento di Scienze e Tecnologie Chimiche  
University of Roma TorVergata – Italy  
June 29-July 2, 2014, Padova, Italy
2. “The effect of Cu(II) metallotoxin on the peripheral neuronal fibers in rat – an ex vivo study”  
*32<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences*  
O. Tsave, A. Salifoglou, G. Theophilidis  
May 8-10, 2014, Ioannina
3. “Insulin mimetic activity of newly synthesized zinc molecules. In vitro studies on adipocyte cultures ”  
M.P. Yavropoulou, K. Topouridou, O. Tsave, A. Salifoglou, K. Kotsa, I.G. Yovos.  
*27<sup>th</sup> Panhellenic Annual Conference of the Diabetes Society of Northern Greece*  
November, 14-16, 2013, Thessaloniki, Greece.
4. “Molecular approaches in the development of prognostic technology in Alzheimer’s disease.”  
A. Salifoglou  
*9<sup>th</sup> Pan–Hellenic Scientific Conference in Chemical Engineering*  
*“The Contribution of Chemical Engineering to Sustainable Development”*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
5. “Design, synthesis and molecular biological studies toward the development of insulin mimetic zinc biotechnology in Diabetes mellitus.”  
O. Tsave, E. Halevas, M. Yavropoulou, K. Topouridou, E. Yovos, A. Salifoglou  
*9<sup>th</sup> Pan–Hellenic Scientific Conference in Chemical Engineering*  
*“The Contribution of Chemical Engineering to Sustainable Development”*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
6. “The effect of H-ras oncogene on carcinogenesis. From etiopathogenesis to the development of functional metallodrugs”  
S. Petanidis, A. Salifoglou  
Heraklitos II Meeting “Support of Human Research Capital through Implementation of Doctoral Research. Central Actions in Doctoral Research”.  
December 10, 2012, Thessaloniki, Greece.

7. "Role of cadmium in the regulation of H-ras Expression accompanied by Caspase-3 Apoptotic Cell Death in Breast Cancer Epithelial MCF-7 cells."  
S. Petanidis, A. Salifoglou  
*63<sup>rd</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology*  
November 9-11, 2012, Heraklion, Greece.
8. "Molecular mechanism of interaction of carcinogenic metals with minisatellite DNA and consequences on the transcriptional regulation of the H-ras oncogene."  
S. Petanidis, A. Salifoglou  
*21<sup>st</sup> Pan-Hellenic Conference in Chemistry*  
*Session XII: Medicinal and Biological Chemistry*  
December 9-12, 2011, Thessaloniki, Greece.
9. "In vitro study of the neurodegeneration process in hippocampal cell cultures."  
A. Savva, C. NDay, A. Salifoglou  
*21<sup>st</sup> Pan-Hellenic Conference in Chemistry*  
*Session XII: Medicinal and Biological Chemistry*  
December 9-12, 2011, Thessaloniki, Greece.
10. "Study of the interactions of Cu(II) with organophosphonate substrates."  
B. Georgantas, A. Salifoglou  
*21<sup>st</sup> Pan-Hellenic Conference in Chemistry*  
*Session III: Chemistry and Materials Technology*  
December 9-12, 2011, Thessaloniki, Greece.
11. "The interaction chemistry of biotoxic aluminum with hydroxycarboxylic acids in aqueous media. The biotoxicity potential of binary Al(III) hydroxycarboxylate species in neurodegenerative processes"  
A. Salifoglou  
*4<sup>th</sup> European Conference on Chemistry for Life Sciences (4ECCLS)*  
August 31-September 3, 2011, Budapest, Hungary
12. "The molecular basis for the development of neuroprotective technology in the neurodegenerative Alzheimer disease"  
A. Salifoglou, C. Nday  
*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
May 26-28, 2011, Thessaloniki, Greece
13. "Rational development of 1D-3D supramolecular lattice architectures through metal-assisted transformations of organic dicarboxylic"  
A. Salifoglou, C. Gabriel  
*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
May 26-28, 2011, Thessaloniki, Greece
14. "Potential mechanisms of Al(III) action in the induction of neurodegenerative disorders of the Alzheimer's type"  
C. Nday, A. Salifoglou  
**Plenary Lecture**  
*7<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 16-20, 2011, Thessaloniki, Greece

15. "Al(III) Effects on neuronal hippocampal cellular NMDA and VDCC channels in early events of neurodegeneration"  
C. Nday, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
16. "Structural Speciation and In Vitro Cytotoxicity of Neurotoxic Aluminum in Alzheimer's Type Neurodegeneration"  
A. Salifoglou  
*10<sup>th</sup> Greece-Cyprus Conference Chemistry and Sustainable Growth*  
July 2-4, 2009, Heraklion, Greece
  
17. "In Vitro Study of Neurotoxic Forms of Al(III) in Relation to Neurodegenerative Dementia in Alzheimer's Disease"  
Christiane Nday, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
June 3-5, 2009, Patras, Greece
  
18. "Synthetic Study of Interactions of Al(III) with Organophosphonate Substrates"  
B. Georgantas, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
June 3-5, 2009, Patras, Greece
  
19. "Interactions Between Al(III) and Phosphonate-Carboxylate Substrates Relevant to Alzheimer's Disease"  
B. Georgantas, A. Salifoglou  
*The Eighth Keele Meeting on Aluminium*  
February 21-25, 2009, Trest, Czech Republic
  
20. "In vitro Research Study of the Effect of the Environmental Metallotoxin Al(III) on the Oxidative Stress of Neuronal Cells through the Action of Ca(II) Ions."  
C. Nday, A. Salifoglou  
*6<sup>th</sup> Panhellenic Conference on Alzheimer's Disease and Related Disorders*  
Grand Hotel  
February 19-22, 2009, Thessaloniki, Greece
  
21. "The Crossword Puzzle of Knowledge and Technology with Small and Large Molecules in Alzheimer's Disease. Do we Learn or Forget?"  
A. Salifoglou  
Department of Chemical Engineering  
Aristotle University of Thessaloniki  
January 10, 2008, Thessaloniki, Greece
  
22. "Design, Synthesis and Biological Activity of Vanadium Insulin Mimetic Drugs"  
A. Salifoglou  
*Section of Basic and Applied Chemistry*

- 6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 513-516  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
23. "Water Soluble and Bioavailable Forms of Fe(III) with Quinic Acid. Synthesis, Isolation, Structural and Spectroscopic Characterization"  
M. Menelaou, C. Mateescu, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 497-500  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
  24. "Synthetic Investigation of the Molecular Basis of Cr(III) Toxicity in the Presence of the Physiological Substrate Quinic Acid"  
C. Gabriel, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 113-116  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
  25. "The Interaction of Hydroxycarboxylic Acids with Fe(III). Water Soluble and Bioavailable Forms of Fe(III) in Plants"  
M. Menelaou, C. Mateescu, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
  26. "Study of the Aqueous Binary System Cr(III)-citric acid Toward Understanding the Molecular Basis of Chromium Biototoxicity"  
C. Gabriel, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
  27. "Metallotoxicity and Neuroprotection in Alzheimer's Disease"  
J. Lazaridis, B. Drever, A. J. Drysdale, A. Salifoglou, B. Platt  
"Oxidative Stress and Dementia"  
*5th National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
  28. "Dynamic Methods to Study Metal Embryotoxicity"  
C. Nday, J. Lazaridis, A. Stergiadis, A. Georgiou, E.-N. Emmanouil-Nikoloussi, H. Fragou-Massouridou, A. Salifoglou  
*2<sup>nd</sup> D29/016/04 COST Working Group Meeting on*  
"Novel sustainable metal catalysed oxidations with H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub>"  
June 17-18, 2006, Rome, Italy
  29. "Synthesis and Characterization of Two New Isostructural Iron(III)-Quinates from Aqueous Solutions"  
Melita Menelaou, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania

30. Isolation and characterization of a new complex of Cr(III) with the physiological substrate of citric acid in aqueous media  
C. Gabriel, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
  
31. "Insulin mimetic preparations of vanadium in correlation with the disease Diabetes mellitus II"  
A. Salifoglou  
*5<sup>th</sup> Hellenic Chemical Engineering Conference*  
Materials Science and Technology 10  
Book of Archives, p. 1157-1160  
May 26-28, 2005, Thessaloniki, Greece
  
32. "Development of the aqueous chemistry of the environmental toxin Hg(II) with biomimetic phosphonate derivatives"  
J. Bounias, A. Salifoglou  
*5<sup>th</sup> Hellenic Chemical Engineering Conference*  
Basic and Applied Chemistry 3  
Book of Archives, p. 289-292  
May 26-28, 2005, Thessaloniki, Greece
  
33. "Synthetic, structural, and spectroscopic studies in correlation with the aqueous speciation of the Ti(IV)-citrate system"  
P. Panagiotidis, E. Kefalas, A. Salifoglou  
*5<sup>th</sup> Hellenic Chemical Engineering Conference*  
Basic and Applied Chemistry 3  
Book of Archives, p. 293-296  
May 26-28, 2005, Thessaloniki, Greece
  
34. "A vanadium(V)-citrate complex from aqueous solutions"  
C. Gabriel, M. Kaliva, A. Salifoglou  
Volume XI, No. 1, p. 69-72  
*SAFE FOOD ALL OVER EUROPE*  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
Banat University of Agricultural and Veterinary Medicine  
May 26-27, 2005, Timisoara, Romania
  
35. Insulin-mimetic vanadium compounds: Design, synthesis and in vitro tests.  
D. Rehder, F. Avecilla, J. Costa Pessoa, C. F. G. C. Geraldès, T. Kabanos, T. Kiss, B. Meier, G. Micera, I. Nolte, L. Pettersson, A. Salifoglou  
*Mid term evaluation workshop on "Metalloenzymes and Chemical Biomimetics"*  
*COST D21*  
September 18-21, 2003, Thessaloniki, Greece
  
36. The Interwoven Fate of Biology and Chemistry in the Plant Biotechnology of the Future

Kalliopi A. Roubelakis-Angelakis and Athanasios Salifoglou  
*International Conference on Emerging Frontiers at the Interface of Chemistry  
& Biology*  
April 28-30, 2003, Trivandrum, India

37. The Aqueous Chemistry of Aluminum in the Presence of Physiological Ligands in Relevance to the Role of this Biotoxic Metal Ion in Neurodegenerative Diseases.  
A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
38. Aluminium and beta-amyloid induced neurotoxicity in primary hippocampal cultures following short-term exposure.  
E. V. L. Roloff, A. J. Drysdale, F. King, T. Salifoglou, B. Platt.  
Society for Neuroscience Abstracts 2001, 27, 872.1.  
*Society for Neuroscience 31<sup>st</sup> Annual Meeting*  
November 10-15, 2001, San Diego, U.S.A.
39. Delineating the Structural Speciation of Aluminum with Physiological Ligands, in Correlation with the Biototoxicity of this Metal Ion in Humans.  
A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
March 10-13, 2001, Pireaus, Greece.
40. Aqueous Extracts of Mediterranean Herbs Exhibit Antioxidant Activity *in vitro*.  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
March 10-13, 2001, Pireaus, Greece.
41. "The antioxidant behavior of nutritional systems is determined by the interactions of their constituents. Studies of interactions between iron and polyphenolic components."  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*6<sup>th</sup> Panhellenic Conference on Nutrition-Diet*  
November 24-26, 2000, Athens, Greece.
42. The Aqueous Chemistry of Vanadium in the Presence of Carboxylic Acids  
M. Tsaramyrsi, M. Calyva, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*6<sup>th</sup> Joint Greece-Cyprus Conference in Chemistry*  
September 2-5, 1999, Rhodes, Greece.
43. Antioxidant Behavior of Mixtures of Iron and Tea or Herbs Under *in vitro* Digestion Conditions.  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*6<sup>th</sup> Joint Greece-Cyprus Conference in Chemistry*  
September 2-5, 1999, Rhodes, Greece.
44. Vanadium Citrate Chemistry in Aqueous Solutions  
M. Tsaramyrsi, M. Calyva, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*5<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry*

April 13-17, 1999, Corfu, Greece.

45. Aqueous Vanadium Complexes with Carboxylic Acids and their Potential Relevance to Biological Systems.  
A. Salifoglou  
*COST D8 and ESF WORKSHOP on Biological and Medicinal Aspects of Metal Ion Speciation*  
August 22-25, 1998, Attila Jozsef University, Szeged, Hungary.
46. Vanadium Citrate Complexes and their Relevance to Biological Systems.  
M. Tsaramyrsi, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*1st International Conference of the Chemical Societies of the South-East European Countries*  
*"Chemical Sciences and Industry"*  
1-4 June, 1998, Halkidiki, Greece.
47. The Chemistry of Aluminum with Citrates in Neurodegenerative Diseases.  
M. Matzapetakis, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*2nd Symposium of the Institute of Physical Chemistry*  
*"Chemical Research and Industry"*  
3-5 December, 1997, NRCPS "Demokritos", Athens, Greece.
48. Aluminum Species as a Preamble to Pathological Diseases.  
M. Matzapetakis, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*4th (FGIPS) European Mediterranean Conference in Inorganic Chemistry*  
October 1997, Corfu, Greece.
49. Intermediate Complexes and Protein Interactions in Substrate Reactions of Methane Monooxygenase from *M. capsulatus* (Bath).  
K. E. Liu, A. M. Valentine, D. Wang, B. H. Huynh, D. E. Edmondson, S. J. Lippard, and A. Salifoglou  
*17<sup>th</sup> Panhellenic Chemical Society Meeting*,  
"Chemistry on the doorstep of the 21st century",  
1-5 December 1996, Patras, Greece.
50. From the Mass Production of *Methylococcus capsulatus* to the Efficient Separation and isolation of Methane Monooxygenase Proteins. Characterization of Novel Intermediates in Substrate Reactions of Methane Monooxygenase.  
K. E. Liu, A. M. Valentine, D. Wang, B. H. Huynh, D. E. Edmondson, A. Salifoglou, and S. J. Lippard  
*NATO Advanced Study Institute on "Cytotoxic, Mutagenic and Carcinogenic Potential of Heavy Metals, Including Metals Related to Human Environment"*,  
15-26 June, 1996, Przesieka, Poland.
51. Nitrogenase and Nitrogen Fixation.  
W. H. Orme-Johnson, A. Anderson, F. M. Ausubel, T. A. Collet, A. B. Hickman, B. Hoffman, P. McLean, A. F. Miller, E. Münck, M. P. Reeve, T. Salifoglou, B. Stewart, T. White, D. Wink, D. Wright  
*4th International Conference on Bioinorganic Chemistry*,  
May 20-26, 1990, Knoxville, Tennessee, U.S.A.



- 52.** The Synthesis and Characterization of Fe/Mo/S Clusters of Possible Relevance to the Active Site of Nitrogenase.  
D. Coucouvanis, M. G. Kanatzidis, A. Salifoglou  
*149th ACS National Meeting,*  
August 30 - September 4, 1987, New Orleans, Louisiana, U.S.A.
- 53.** Binuclear Complexes of the First-Row Transition Metals with Aryloxides as Bridging Ligands.  
A. Salifoglou, K. Greiwe, D. Coucouvanis  
*19th ACS Central Regional Meeting,*  
June 24 - 26, 1987, Columbus, Ohio, U.S.A.
- 54.** New Thiolate Complexes of Niobium and Tantalum.  
R. Bergero, D. Coucouvanis, A. Salifoglou  
*19th ACS Central Regional Meeting,*  
June 24 - 26, 1987, Columbus, Ohio, U.S.A.
- 55.** Structures and Electronic Properties of Fe/Mo/S Aggregates. Possible Structural Analogues for the Active Site of Nitrogenase.  
D. Coucouvanis, A. Salifoglou, M. G. Kanatzidis  
*19th ACS Central Regional Meeting,*  
June 24 - 26, 1987, Columbus, Ohio, U.S.A.
- 56.** Mixed and Non-Sulfur Terminal Ligand Environment  $\text{Fe}_4$  and  $\text{Fe}_2\text{S}_2$  Clusters. Their Relevance as Ferredoxin Active Site Analogues.  
D. Coucouvanis, M. G. Kanatzidis, A. Salifoglou  
*188th ACS National Meeting,*  
August 26 - 31, 1984, Philadelphia, Pennsylvania, U.S.A.
- 57.** Synthetic Iron-Sulfur Clusters Containing the  $[\text{Fe}_2\text{S}_2]^{2+}$  Core and Non-Sulfur Terminal Ligands.  
A. Salifoglou, M. G. Kanatzidis, and D. Coucouvanis  
*Third Joint Great Lakes/Central Regional Meeting of the American Chemical Society,*  
May 23 - 25, 1984, Kalamazoo, Michigan, U.S.A.

## Presiding Chairman at National and International Meetings

1. SESSION: Biophysical, environmental and green chemistry.  
Chairs: A. Salifoglou, Vlad Tudor Popa  
*International Conference of Physical Chemistry*  
*Romphyschem 15*  
Romanian Academy of Sciences  
September 11-13, 2013, Bucharest, Romania
2. SESSION: Nanostructure Assemblies in Biotechnology  
Chairs: A. Salifoglou and Eva Marie Hey-Hawkins  
*13<sup>th</sup> Edition of Academic Days Timisoara Chemistry Symposium- New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
June 13-14, 2013, Timișoara, Romania
3. SESSION: General Symposium II: Biotechnology, Biomaterials, Tissue Engineering  
Chairs: Maya Simionescu and A. Salifoglou  
*5<sup>th</sup> International Congress and the 31<sup>st</sup> Annual Scientific Session of the Romanian Society for Cell Biology*  
June 5-9, 2013, Timișoara, Romania
4. SESSION: Biobanks  
Chair: A. Salifoglou  
*8<sup>o</sup> Panhellenic Conference of Alzheimer's Disease*  
February 28-March 3, 2013, Thessaloniki, Greece
5. SESSION: Materials  
Chairs: A. Salifoglou, Cecilia Savii  
*New Trends and Strategies in the Chemistry of Advanced Materials*  
November 8-9, 2012, Timisoara, Romania
6. SESSION: Metalloproteins  
Chair: A. Salifoglou  
*European Biological Inorganic Chemistry 11 (EUROBIC 11) Conference*  
September 12-16, 2012, Granada, Spain
7. SESSION: Bioinorganic Chemistry  
Chairs: E. Milaeva, A. Salifoglou  
*12<sup>th</sup> Eurasia Conference on Chemical Sciences*  
April 16-21, 2012, Corfu, Greece.
8. SESSION XIII: Inorganic and Bioinorganic Chemistry  
Chairs: S. Perlepes, A. Salifoglou  
*21<sup>st</sup> Pan-Hellenic Conference in Chemistry*  
December 9-12, 2011, Thessaloniki, Greece.
9. SESSION T4: Metals in Neurosciences  
Chair: A. Salifoglou

*11<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry (ISABC11)*  
December 2-5, 2011, Barcelona, Spain.

**10. SESSION II: Biomaterials**

Chairs: Marius Andruh, A. Salifoglou

*5<sup>th</sup> International Symposium on New Trends and Strategies in the Chemistry of Advanced Materials*

November 3-4, 2011, Timisoara, Romania

**11. SESSION: Basic and Applied Chemistry**

Chairs: D. Spartinos, A. Salifoglou

*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*

May 26-28, 2011, Thessaloniki, Greece

**12. SESSION: Biotechnology and Biomedical Engineering**

Chairs: A. Salifoglou, A. Assimopoulou

*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*

May 26-28, 2011, Thessaloniki, Greece

**13. SESSION: Biomedicine and Bioengineering**

Chairs: A. Salifoglou, T. Pajpanova and E. Eskader

*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*

November 3-5, 2010, Thessaloniki, Greece

**14. SESSION: Aetiology and Pathology in Dementias**

*25<sup>th</sup> International Conference of Alzheimer's Disease International (ADI)*

March 10-13, 2010, Thessaloniki, Greece.

**15. WORKSHOP 2: Trace Elements: Metabolism and Biological Effects**

*7<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*

October 13-15, 2009, Athens, Greece

**16. SESSION MATERIALS SCIENCE AND TECHNOLOGY 7 (MS7)**

*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*

3-5 June, 2009, Patras, Greece

**17. SESSION S7 COPPER**

9<sup>th</sup> European Biological Inorganic Chemistry Conference – EUROBIC9

September 2-6, 2008, Wroclaw, Poland

**18. SCIENTIFIC PROGRAM SESSION D**

*FIGIPAS 9 Meeting in Inorganic Chemistry*

July 4-7, 2007, Vienna, Austria

**19. BASIC AND APPLIED CHEMISTRY 6<sup>th</sup>**

*Panhellenic Scientific Conference of Chemical Engineering*

May 31 – June 2, 2007, Athens, Greece

**20. SYNTHETIC AND COMPUTATIONAL CHEMISTRY**

*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus

- 21. OXIDATIVE STRESS AND DEMENTIA**  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
- 22. POSTER SESSION**  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
- 23. NEW TRENDS IN FOOD SAFETY AND TECHNOLOGIES**  
SESSION 2  
May 25-26, 2006, Timisoara, Romania
- 24. 5<sup>TH</sup> INTERNATIONAL SYMPOSIUM ON TRACE ELEMENTS IN HUMAN: NEW PERSPECTIVES**  
WORKSHOP 2: TRACE ELEMENTS: METABOLISM AND BIOLOGICAL EFFECTS  
October 13-15, 2005, Athens, Greece
- 25. 5<sup>TH</sup> INTERNATIONAL SYMPOSIUM ON TRACE ELEMENTS IN HUMAN: NEW PERSPECTIVES**  
WORKSHOP 1: TRACE ELEMENTS AND HUMAN HEALTH  
October 13-15, 2005, Athens, Greece
- 26. 5<sup>TH</sup> HELLENIC CHEMICAL ENGINEERING CONFERENCE**  
SESSION: BASIC AND APPLIED CHEMISTRY 1  
May 26-28, 2005, Thessaloniki, Greece
- 27. AGROALIMENTARY PROCESSES AND TECHNOLOGIES**  
SESSION I  
May 26-27, 2005, Timisoara, Romania
- 28. AGROALIMENTARY PROCESSES AND TECHNOLOGIES**  
SESSION I  
May 20-21, 2004, Timisoara, Romania
- 29. 13<sup>th</sup> ALZHEIMER EUROPE CONFERENCE AND 3<sup>rd</sup> HELLENIC NATIONAL ALZHEIMER DISEASE AND RELATED DISORDERS CONFERENCE**  
SESSION: Stress and Brain  
June 12-15, 2003, Thessaloniki, Greece.
- 30. 19<sup>th</sup> PAN-HELLENIC CONFERENCE ON CHEMISTRY**  
SESSION INORGANIC CHEMISTRY  
November 6-10, 2002, Heraklion, Greece
- 31. METALLOBIOMOLECULES AND SYNTHETIC MODELS**  
SYMPOSIUM 3

*6<sup>th</sup> FIGIPS Meeting in Inorganic Chemistry*  
July 16-20, 2001, Barcelona, Spain

**32. CHEMISTRY AND METAL SPECIATION**

**SESSION 6**

*First International Conference on METALS IN THE BRAIN*

*From Neurochemistry to neurodegeneration*

University of Padova

September 20-23, 2000, Padova, Italy

**33. PATHOGENESIS OF ALZHEIMER'S DISEASE**

First Panhellenic Conference on Alzheimer's Disease

January 13-16, 2000, Thessaloniki, Greece

**34. PLENARY SESSION and**

**COORDINATION AND BIOINORGANIC CHEMISTRY SESSION**

*5<sup>th</sup> FIGIPS Meeting in Inorganic Chemistry*

October 27-31, 1999, Toulouse, France

**Participation in International Meetings**  
**PUBLICATIONS IN SYMPOSIA PROCEEDINGS**  
**RESEARCH POSTER PRESENTATIONS**

1. "pH-Specific structural speciation studies in biologically relevant binary Cr(III)-hydroxycarboxylic acid systems"  
C. Gabriel, A. Salifoglou  
*12<sup>th</sup> European Biological Inorganic Chemistry Conference (Eurobic 12)*  
University of Zürich  
August 24-28, Zürich, Switzerland
2. "Magnetic Iron Oxide Silica Coated Nanoparticles doped with Thioflavin-T for beta-amyloid targeting"  
A. Tsolakis, L. Chalevas, A. Salifoglou, N. Vouroutzis, G. Litsardakis  
*NN14 – 11<sup>th</sup> International Conference on Nanosciences and Nanotechnologies*  
July 8-11, 2014, Thessaloniki, Greece
3. "Insight into vanadium anticancer action in metastatic processes"  
S. Petanidis, E. Kioseoglou, A. Salifoglou  
*9<sup>th</sup> International Vanadium Symposium Chemistry, Biological Chemistry & Toxicology*  
Dipartimento Scienze Chimiche, University of Padova – Italy  
Dipartimento di Scienze e Tecnologie Chimiche  
University of Roma TorVergata – Italy  
June 29-July 2, 2014, Padova, Italy
4. "Encapsulation techniques and targeted delivery of newly developed insulinomimetic vanadium (III,IV,V) and Zinc(II) compounds"  
E. Halevas, C. Nday, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
5. "Al(III) potential mechanism towards Alzheimer's disease type neurodegenerative phenotypes"  
C. Nday, G. Jackson, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
6. "The pH specific synthesis of new Cr(III)-Heida (2-Hydroxyethyliminodiacetic Acid) complexes"  
C. Gabriel, C. Mateescu, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania

7. "Synthesis and characterization of novel binary and ternary indium-polycarboxylato compounds"  
E. Halevas, S. Hatzispyrou, A. Hadzidimitriou, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
8. "1D, 2D, and 3D metal–organic frameworks based on phenanthroline ligands and polycarboxylates: syntheses, structures, and photoluminescent properties"  
C. Gabriel, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
9. "Surface modified silica nanoparticles as flavonoid-containing carriers in drug delivery"  
E. Halevas, O. Tsave, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
10. "Interactions of metal ions with genetic factors responsible of Alzheimer's disease plaques"  
C. Nday, G. Jackson, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
11. "Binary and ternary metal–organic hybrid polymers in aqueous Pb(II)–dicarboxylic acid–(phen) systems"  
C. Gabriel, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
12. "Synthesis and characterization of novel binary V(IV,V)-Schiff base compounds and in vitro investigation of their insulin mimetic activity"  
E. Halevas, A. Salifoglou  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
  
13. "Synthesis and characterization of novel zirconium compounds"  
E. Halevas, A. Karamelidou, A. Hadzidimitriou, A. Salifoglou

*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania

14. "Synthesis, structure and spectral properties of a new Co(III) Schiff-base complex containing piperazine moiety"  
C. Cretu, L. Cseh, R. Tudose, A. Salifoglou, O. Costisor  
*New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
Romanian Academy of Sciences  
June 5-6, 2014, Timișoara, Romania
15. "Vanadium suppresses H-ras oncogene and MMP-2 expression by increasing ROS mediated apoptosis"  
S. Petanidis, E. Kioseoglou, A. Salifoglou  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat's University of Agricultural Sciences and Veterinary Medicine  
"King Michael I of Romania" from Timisoara  
May 29-30, 2014, Timisoara, Romania
16. "Cadmium regulates H-ras Expression and Caspase-3 Apoptotic Cell Death in Breast Cancer Epithelial MCF-7 cells"  
S. Petanidis, A. Salifoglou  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat's University of Agricultural Sciences and Veterinary Medicine  
"King Michael I of Romania" from Timisoara  
May 29-30, 2014, Timisoara, Romania
17. "Structure lattice-dimensionality correlations in novel binary and ternary materials of Group 13 elements with benzoic acid and phenanthroline"  
E. Halevas, A. Hatzidimitriou, A. Salifoglou  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat's University of Agricultural Sciences and Veterinary Medicine  
"King Michael I of Romania" from Timisoara  
May 29-30, 2014, Timisoara, Romania
18. "Synthesis and characterization of novel binary indium-hydroxycarboxylic acid compounds"  
E. Halevas, S. Hatzispyrou, A. Hatzidimitriou, A. Salifoglou  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
Banat's University of Agricultural Sciences and Veterinary Medicine  
"King Michael I of Romania" from Timisoara  
May 29-30, 2014, Timisoara, Romania
19. "Synthesis and characterization of novel binary and ternary indium-polycarboxylato



- compounds”  
 E. Halevas, S. Hatzispyrou, A. Hadzidimitriou, A. Salifoglou  
*The 5<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
 Banat’s University of Agricultural Sciences and Veterinary Medicine  
 “King Michael I of Romania” from Timisoara  
 May 29-30, 2014, Timisoara, Romania
20. “Brain and tissue banking perspectives in Greece”  
 D. Anastakis, S. Petanidis, A. Salifoglou, M. Tsolaki  
*22<sup>nd</sup> Annual Congress of the European Association of Tissue Banks*  
 November 20-22, 2013, Brussels, Belgium.
21. “The single-crystal x-ray diffraction analysis of the Schiff base N,N’- bis[3(4-dodecyloxy-benzylideneamino)-propyl]-piperazine and the infrared spectra study on its stability as ligand by complexation reactions”  
 C.-M. Bucovicean-Bereczki, L. Cseh, R. Tudose, A. Salifoglou, O. Costisor  
*13<sup>th</sup> Edition of Academic Days Timisoara Chemistry Symposium- New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
 June 13-14, 2013, Timișoara, Romania
22. “The crystal structures and fluorescence properties of a Schiff base ligand and its novel homo-dinuclear Zn(II) Complex”  
 C. Cretu, R. Tudose, L. Cseh, Z. Dudas, A. Salifoglou, O. Costisor  
*13<sup>th</sup> Edition of Academic Days Timisoara Chemistry Symposium- New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*  
 June 13-14, 2013, Timișoara, Romania
23. “Synthetic and physicochemical approaches in binary and ternary Cu(II)-organophosphonate systems under the influence of heterocyclic aromatic binders.”  
 V. Georgantas, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
 Banat University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timisoara  
 May 30-31, 2013, Timișoara, Romania
24. “Synthesis and characterization of novel binary Zn(II)-Schiff base compounds and in vitro investigation of their insulin mimetic activity.”  
 O. Tsave, E. Halevas, M. Yavropoulou, K. Topouridou, E. Yovos, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
 Banat University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timisoara  
 May 30-31, 2013, Timișoara, Romania
25. “Molecular perspectives of hybrid ternary vanadium-peroxido-betaine complexes in diabetes”  
 E. Kioseoglou, A. Gabriel, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*

*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara*  
May 30-31, 2013, Timișoara, Romania

- 26.** "Design and development of nano-materials in the molecular technology of nitrate removal from environmentally polluted waters."  
A. Malakopoulos, E. Chalevas, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara*  
May 30-31, 2013, Timișoara, Romania
- 27.** "In vitro neurotoxic assessment of Fe(III) and Fe(III)-chelator species on rat hippocampal cells."  
C. Nday, O. Tsave, G. Malollari, S. Petanidis, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara*  
May 30-31, 2013, Timișoara, Romania
- 28.** "The effect of Cadmium H-ras expression and caspase-3 apoptotic cell death in breast cancer epithelial MCF-7 cells."  
S. Petanidis, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara*  
May 30-31, 2013, Timișoara, Romania
- 29.** "In vitro investigation of the neurodegeneration potential of well-defined forms of copper. Correlation to Alzheimer's neurodegenerative processes."  
O. Tsave, G. Malollari, K. Agapidis, S. Petanidis, A. Salifoglou  
*The 4<sup>th</sup> International Conference on Food Chemistry, Engineering & Technology*  
*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara*  
May 30-31, 2013, Timișoara, Romania
- 30.** "New ternary vanadium-betaine-peroxido complexes and study of their insulin mimetic and anticancer activity"  
E. Kioseoglou, A. Gabriel, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 31.** "Development of vanadodrugs to suppress the H-ras oncogene and the MMP-2 metalloprotein in MCF-7 and A549 cancer cells".  
S. Petanidis, E. Kioseoglou, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus

May 23-25, 2013, Athens, Greece

- 32.** "Synthetic and physicochemical study of binary and ternary organophosphonate species of Cu(II) bearing distinct crystal lattice architecture"  
V. Georgantas, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 33.** "Design, synthesis and physicochemical characterization of binary materials of insulin mimetic zinc with Schiff bases bearing a variable number of terminal alcohols".  
E. Chalevas, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 34.** "Design and development of nanosized molecular materials in removal technologies of nitrates from environmental waters"  
A. Malakopoulos, E. Chalevas, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 35.** Cadmium influences the expression of the H-ras oncogene and the apoptotic cell death through caspase-3 in MCF-7 endothelial breast cancer cells.  
S. Petanidis, O. Tsave, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 36.** In vitro investigation of the neurometallotoxin Cu(II) in rat hippocampal cells and linkage association to neurodegenerative pathologies.  
O. Tsave, G. Malollari, S. Petanidis, A. Salifoglou  
*9<sup>th</sup> Pan-Hellenic Scientific Conference in Chemical Engineering*  
*"The Contribution of Chemical Engineering to Sustainable Development"*  
National Technical University of Athens (NTUA), Zografou University Campus  
May 23-25, 2013, Athens, Greece
- 37.** Study of the oxidative potential of iron in Alzheimer's degeneration. Turning to molecular chelators of natural origin.  
O. Tsave, G. Malollari, C. Nday, S. Petanidis, A. Salifoglou  
*8<sup>o</sup> Panhellenic Conference of Alzheimer's Disease*  
February 28-March 3, 2013, Thessaloniki, Greece
- 38.** Copper as a neurometal ion in Alzheimer's disease degeneration. Mechanistic interactions of neuroprotective merit.

O. Tsave, G. Malollari, S. Petanidis, A. Salifoglou  
*8<sup>o</sup> Panhellenic Conference of Alzheimer's Disease*  
February 28-March 3, 2013, Thessaloniki, Greece

- 39.** In vitro assessment of the effects of neurotoxic Fe(III) and Fe(III)-chelator species on rat hippocampal cultures  
C. Nday, O. Tsave, G. Malollari, S. Petanidis, A. Salifoglou  
*63<sup>rd</sup> Pan-Hellenic Congress of Biochemistry and Molecular Biology*  
November 9-11, 2012, Heraklion, Greece
- 40.** Peroxidation of vanadium suppresses H-ras oncogene and MMP-2 expression by increasing ROS-mediated apoptosis  
Petanidis S., Kioseoglou E., Salifoglou A.  
*63<sup>rd</sup> Pan-Hellenic Congress of Biochemistry and Molecular Biology*  
November 9-11, 2012, Heraklion, Greece
- 41.** Molecular interactions of novel vanadium(V)-betaine-tetraperoxido species with the H-ras oncogene in human lung adenocarcinoma A549 cells  
Kioseoglou E., Petanidis S., Salifoglou A.  
*63<sup>rd</sup> Pan-Hellenic Congress of Biochemistry and Molecular Biology*  
November 9-11, 2012, Heraklion, Greece
- 42.** Cysteine cathepsins in colorectal in colorectal cancer  
Anestakis D., Argyraki M., Petanidis S., Salifoglou A., Iakovidou-Kritsi Z.  
*63<sup>rd</sup> Pan-Hellenic Congress of Biochemistry and Molecular Biology*  
November 9-11, 2012, Heraklion, Greece
- 43.** “Mesoporous silica coated by manganese oxychloride – surface modification targeting removal of nitrates from water”  
A. Malakopoulos, E. Halevas, A. Delimitis, V. Zaspalis, G. Litsardakis and A. Salifoglou  
*9<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN12)*  
3-6 July 2012, Thessaloniki, Greece.
- 44.** “Metal organic framework compounds of lead(II) with O-, and N-, substrates  
C. Gabriel, A. Salifoglou”  
*The 3<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 10-11, 2012, Timișoara, Romania
- 45.** “Structural speciation in the Binary Cr(III)-Citrate system”  
C. Gabriel, C. Mateescu, A. Salifoglou  
*The 3<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 10-11, 2012, Timișoara, Romania
- 46.** “Monitoring Superoxide Dismutase Activity in freshwater crustacean organisms exposed to the environmental metallotoxin Pb(II). The case of *Daphnia magna*”  
P. Peppos, A. Salifoglou, S. Hadjispyrou

*The 3<sup>rd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 10-11, 2012, Timișoara, Romania

47. "The chemistry of the ternary vanadium-peroxido-betaine systems in aqueous media"  
E. Kioseoglou, C. Gabriel, A. Salifoglou  
*The 3<sup>rd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 10-11, 2012, Timișoara, Romania
48. "The association of carcinogenic metal ions with the minisatellite DNA of H-ras and the impact on the transcription mechanism."  
S. Petanidis, A. Salifoglou  
*The 3<sup>rd</sup> International Conference on Food Chemistry, Engineering & Technology*  
May 10-11, 2012, Timișoara, Romania
49. "Synthesis of unusual vanadium peroxo materials containing betaine. Correlation of the structure of materials with insulin mimetic activity."  
E. Kioseoglou, K. Gabriel, A. Salifoglou  
*21<sup>st</sup> Pan-Hellenic Conference in Chemistry*  
*Session III: Inorganic and Bioinorganic Chemistry*  
December 9-12, 2011, Thessaloniki, Greece.
50. "Metal-Linked Neurodegenerative Processes in Alzheimer's Disease. Pathogenetic and Neuroprotective Insights."  
*11<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry (ISABC11)*  
December 2-5, 2011, Barcelona, Spain.
51. "Synthesis and characterization of 2D metal-organic lattice assemblies between divalent metal ions and D-(-)-quinic acid"  
M. Menelaou, V. Georgantas, A. Salifoglou  
*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
May 26-28, 2011, Thessaloniki, Greece
52. "Approaching neurodegenerative disorders through in vitro investigations in hippocampal cell cultures"  
A. Savva, C. Nday, A. Salifoglou  
*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
May 26-28, 2011, Thessaloniki, Greece
53. "Interactions of the trivalent metal ion Al(III) with organophosphonate ligands"  
B. Georgantas, A. Salifoglou  
*8<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
May 26-28, 2011, Thessaloniki, Greece
54. "Metal ion interactions with the minisatellite DNA of H-ras oncogene"  
S. Petanidis, A. Salifoglou  
*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 55.** “Hybrid Links between Decavanadates and Betaines of Potential Pharmacological Relevance”

E. Kioseoglou, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 56.** “1D-3D Pb(II)-Organic Lattice Assemblies through Chemical Reactivity and Pb(II)-Assisted Ligand Transformations”

C. Gabriel, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 57.** “D-(-)-Quinic acid: an efficient physiological metal ion ligand”

Melita Menelaou, C. Mateescu, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 58.** “Synthesis, Spectroscopic and Structural Studies of New Binary Cr(III)-Citrate pH-Specific Structural Variants from Aqueous Media”

C. Gabriel, C. Mateescu, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 59.** “Synthesis, structural and spectroscopic characterization of unusual ternary dinuclear tetraperoxo vanadium (V)-glycine complexes”

C. Gabriel, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 60.** “Study of aluminum binary systems with phosphonate substrates and their relevance to neurodegeneration”

V. Georgantas, A. Salifoglou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

- 61.** “Superoxide Dismutase Activity in the freshwater crustacean *Daphnia magna* exposed to Pb(II)”

P. Peppos, A. Salifoglou, S. Hadjispyrou

*The 2<sup>nd</sup> International Conference on Food Chemistry, Engineering & Technology*

May 19-20, 2011, Timișoara, Romania

62. "Association among specific aluminum forms b-amyloid and neuroprotective chelators at the cellular level in Alzheimer disease"  
C. Nday, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
63. "Hybrid links between decavanadates and betaines of pharmacological relevance"  
E. Kioseoglou, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
64. "Study of aluminum interactions with organo-phosphate substrates and their relevance to Alzheimer's disease"  
V. Georgantas, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
65. "Study on the effects of Biotoxic Metal Ions on the DNA minisatellite downstream of H-Ras Oncogene"  
S. Petanidis, C. Nday, A. Savva, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
66. "Organophosphonate Substrates in the Binding and Characterization of Biotoxic Mercury(II): Crystal structures and photoluminescent properties"  
M. Perikli, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
67. "Cadmium effect on Cu,Zn-SOD activity isolated from *Daphnia magna*"  
S. Hadjispyrou, M. Basiliadou, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
68. "Natural product substrate D-(-)-quinic acid interactions with divalent transition metal ions in advanced materials"  
M. Menelaou, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
  
69. "The chemical reactivity of the organophosphate binder N-N-bis(phosphonomethyl)glycine with Co(II). Relevance to hybrid (bio) materials"  
M. Menelaou, A. Salifoglou

*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece

- 70.** “Encapsulation techniques and targeted delivery of newly developed insulinomimetic vanadium (III,IV,V) and zinc(II) compounds”  
L. Halevas, N. Nday, A. Salifoglou  
*1<sup>st</sup> International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology (ABIMB2010)*  
November 3-5, 2010, Thessaloniki, Greece
- 71.** “The Missing Link of the Ternary V(V)-Citrate-H<sub>2</sub>O<sub>2</sub> system”  
C. Gabriel, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 72.** “The Synthesis, Spectroscopic and Structural Characterization, and Magnetic Properties of New Species in the Aqueous Cr(III)- Heida (2-Hydroxyethyliminodiacetic Acid) System”  
C. Gabriel, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 73.** “In depth study of the binary Co(II)-phosphonate system”  
M. Menelaou, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 74.** “Synthesis and characterization of Ni(II)-organophosphonate species”  
M. Menelaou, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 75.** “Superoxide Dismutase Activity in the Freshwater Crustacean *Daphnia magna* Exposed to Cadmium”  
S. Hadjispyrou, T. Salifoglou and M. Basiliadou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 76.** “Acute Phase Effects of Al(III) Compounds on NMDA and VDCC Channels in Neuronal Hippocampal Cell Cultures”  
C. Nday, B. Drever, A. Salifoglou, B. Platt  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 77.** “Interactions of Alzheimer Disease Risk Factors and Their Effects on Hippocampal Cells in the Presence of Neuroprotective Agents”  
C. Nday, B. Drever, A. Salifoglou, B. Platt  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece



- 78.** “Association and Molecular Interaction of Biotoxic Metal Ions with the Minisatellite Locus of the H-Ras Oncogene.”  
S. Petanidis, C. Nday, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 79.** “Polyoxovanadate Clusters with Betaines”  
E. Kioseoglou, A. Salifoglou  
*10<sup>th</sup> European Biological Inorganic Chemistry Conference*  
June 22-26, 2010, Thessaloniki, Greece
- 80.** “Structural speciation of Co(II) with hydroxy-carboxylate substrates”  
M. Menelaou, C. Mateescu, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 81.** “In search of bio - metal factor effects on neuronal NMDA and VDCC channel”  
C. Nday, B. Drever, A. Salifoglou, B. Platt  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 82.** “Neuroprotective effects of chelator agents toward aluminium and A $\beta$  amyloid peptide interactions in hippocampal cells”  
C. Nday, B. Drever, A. Salifoglou, B. Platt  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 83.** “Betaine-Polyoxovanadate Cluster Synthesis and Physicochemical Properties”  
E. Kioseoglou, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 84.** “The pH-specific synthesis of three new Cr(III)-heida (2 -hydroxyethyliminodiacetic acid) complexes”  
C. Gabriel, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 85.** “A new Vanadium (V)-peroxo species in the presence of citric acid”  
C. Gabriel, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
- 86.** “Structural speciation of binary Ni(II)-phosphonate systems”  
M. Menelaou, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania

87. "Effect of toxic metal ions on the minisatellite DNA of H-RAS and the impact on the transcription mechanism"  
S. Petanidis, C. Nday, A. Salifoglou  
*The 1<sup>st</sup> International Conference on Food Chemistry, Engineering & Technology*  
June 3 – 4, 2010, Timișoara, Romania
88. "In vitro investigation of neuroprotective effects toward A $\alpha$  and A $\beta$  amyloid peptide interactions in hippocampal cells"  
C. Nday, A. Salifoglou  
*25<sup>th</sup> International Conference of Alzheimer's Disease International (ADI)*  
March 10-13, 2010, Thessaloniki, Greece.
89. "Study of the Binary Systems of Al(III) with Carboxy-Phosphonate Substrates"  
B. Georgantas, A. Salifoglou  
*10<sup>th</sup> Greece-Cyprus Conference Chemistry and Sustainable Growth*  
July 2-4, 2009, Heraklion, Greece
90. "Synthesis and Characterization of New Materials of Toxic Pb(II) with Physiological Substrates"  
C. Gabriel, A. Salifoglou  
*10<sup>th</sup> Greece-Cyprus Conference Chemistry and Sustainable Growth*  
July 2-4, 2009, Heraklion, Greece
91. "The Chemistry of Cd(II) with Biological Molecules of Low Molecular Mass. Synthesis and Characterization of New Cd(II)-Hydroxy-Isobutyric Acid Complexes"  
P. Panagiotidis, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
92. "Studies of Aqueous Speciation of the Binary System Al(III)-(1-Hydroxy-ethylidene-1,1-diphosphonic Acid)"  
B. Georgantas, A. Salifoglou, T. Kiss  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
93. "Synthesis and Characterization of New Materials of Toxic Pb(II) with Aliphatic and Cyclic Tetracarboxylic Substrates"  
C. Gabriel, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
94. "Understanding the Metallochemistry of Cobalt and Nickel with Phosphonate Substrates"  
M. Menelaou, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
95. "The Aqueous Synthetic Chemistry of Toxic Pb(II) with Fumaric Acid"

C. Gabriel, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece

- 96.** “A Study of the Chemistry of Ni(II) with a Synthetic Organophosphonate Substrate”  
M. Menelaou, P. Vamvourelis, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
- 97.** “Interaction of between an Environmental and a Genetic Factor in Alzheimer’s Dementia. Toxicity Consequences in the Viability and Morphological Changes of Hippocampal Cell Cultures”  
Christiane Nday, A. Salifoglou  
*7<sup>th</sup> Panhellenic Scientific Conference in Chemical Engineering*  
3-5 June, 2009, Patras, Greece
- 98.** “Synthesis, Structural and Spectroscopic Studies of two New Cd(II)-Methyl Lactate Complexes in Aqueous Solution”  
P. Panagiotidis, A. Salifoglou  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania
- 99.** “Aqueous Chemistry of Al(III) with carboxy-Phosphonate and Phosphonate Substrates”  
B. Georgantas, A. Salifoglou  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania
- 100.** “Differential Toxicity of Dietary Al(III) Forms in the presence or Absence of Amyloid Peptide on Cell Viability and Synaptogenesis”  
C. Nday, B. Drever, B. Platt, A. Salifoglou  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania
- 101.** “Investigation of the Aqueous Chemistry of Pb(II) with O- and N-Substrates”  
C. Gabriel, A. Salifoglou  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat’s University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania

102. "Structural Speciation of the Binary Co(II)-Phosphonate System"  
Melita Menelaou, Anca Mateescu, A. Salifoglou  
*Food Sciences, Processes and Technologies*  
*New Trends in Food Safety and Processing*  
Banat's University of Agricultural Sciences and Veterinary Medicine  
Faculty of Food Processing Technology  
May 27-29, 2009, Timisoara, Romania
  
103. "Interactions Between Al(III) and Phosphonate-Carboxylate Substrates Relevant to Alzheimer's Disease"  
B. Georgantas, A. Salifoglou  
*The Eighth Keele Meeting on Aluminium*  
21-25 February, 2009, Trest, Czech Republic
  
104. "Study of the Specific Risk Factors, A $\beta$ (1-40) Amyloid Peptide and the Biotoxic Forms of Al(III), in the Pathogenesis of Alzheimer's Disease."  
C. Nday, S. Petanidis, A. Salifoglou  
*6<sup>th</sup> Panhellenic Conference on Alzheimer's Disease and Related Disorders*  
Grand Hotel  
February 19-22, 2009, Thessaloniki, Greece
  
105. "In Vitro Investigation of Individual and Combined Exposure of the Risk Factors A $\beta$  Amyloid Peptide and Biotoxic Aluminium to Hippocampal Cells"  
C. Nday, B. Drever, B. Platt, A. Salifoglou  
*22<sup>nd</sup> Conference of the Hellenic Society for Neuroscience*  
"From Cells to Behaviour"  
Eugenidis Foundation  
October 16-19, 2008, Athens, Greece
  
106. "Synthetic Approaches in the Aqueous Structural Speciation of Binary Cr(III)-Hydroxycarboxylate System"  
A. Salifoglou, C. Gabriel  
*9<sup>th</sup> European Biological Inorganic Chemistry Conference – EUROBIC9*  
September 2-6, 2008, Wroclaw, Poland
  
107. "A new vanadium(V)-peroxo species in the presence of physiological citrate. The missing link in the structural speciation of the V(V)-peroxo-citrate system."  
A. Salifoglou, C. Gabriel  
*6<sup>th</sup> International Vanadium Symposium*  
July 17-19, 2008, Lisbon, Portugal
  
108. "A New 1-D Open-Channeled 3-D Supramolecular Self-Assembled Framework"  
D. Diatsigos, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May 15-16, 2008, Timisoara, Romania
  
109. "Aqueous Synthetic Chemistry of Pb(II) with Dicarboxylic Acids"

- C. Gabriel, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 110.** “New Cr(III)-heida (2-hydroxyethyliminodiacetic acid) Complexes”  
 C. Gabriel, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 111.** “The Synthesis, Isolation and Spectroscopic Characterization of a New Cu(II)-Tetraphosphonate Complex”  
 D. Diatsigos, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 112.** “Synthesis, Structural and Spectroscopic Characterization of a New Cd(II)-Methyl Lactate Complex in Aqueous Solution”  
 P. Panagiotidis, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 113.** “Investigation of Aluminum Aqueous Chemistry with Organophosphate Ligands”  
 V. Georgantas, M. Menelaou, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 114.** “Synthesis and Characterization of a New Cu(II)-Carboxylate Complex from Aqueous Media”  
 A. Konstantopai, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 115.** “Investigation of Co(II)-Hydroxycarboxylate Interactions in Aqueous Solutions”  
 M. Menelaou, A. Konstantopai, C. Mateescu, A. Salifoglou  
*New Trends in Food Safety and Processing Symposium*  
 Banat University of Agricultural Sciences and Veterinary Medicine  
 May 15-16, 2008, Timisoara, Romania
- 116.** “The Synthesis, Spectroscopic and Structural Characterization of a New Ni(II)-hydroxycarboxylate Complex in Association with the Aqueous Speciation of the Binary System”  
 C. Mateescu, A. Salifoglou

*New Trends and Strategies in the Chemistry of Advanced Materials with relevance to Biological Systems, Techniques and Environmental Protection*  
Institute of Chemistry  
Romanian Academy of Sciences, Branch Timisoara  
November 8-9, 2007, Timisoara, Romania.

- 117.** “Al(III) toxicity on neuronal and glial cells through N-methyl-D-aspartic acid receptors”  
C. Nday, A. J. Drysdale, B. Platt, A. Salifoglou  
*4<sup>th</sup> International Symposium on Alzheimer’s Disease and Related Disorders in the Middle East*  
October 26-28, 2007, Athens, Greece
- 118.** “Aqueous Cr(III)-Citrate Speciation. Complexes Relevant to Chromium Toxicity”  
C. Gabriel, C. Mateescu, A. Salifoglou  
*FIGIPAS 9 Meeting in Inorganic Chemistry (PO-11)*  
July 4-7, 2007, Vienna, Austria
- 119.** “Chromium Toxicity with (O,N)-containing Organic Substrates at the Molecular Level”  
C. Gabriel, C. Mateescu, A. Salifoglou  
*FIGIPAS 9 Meeting in Inorganic Chemistry (PO-12)*  
July 4-7, 2007, Vienna, Austria
- 120.** “The Investigation of the Binary System Fe(III)-Quinic Acid. Potential Bioavailable Forms of Fe(III)”  
M. Menelaou, C. Mateescu, A. Salifoglou  
*FIGIPAS 9 Meeting in Inorganic Chemistry (PO-13)*  
July 4-7, 2007, Vienna, Austria
- 121.** “Probing the Structural Speciation of Binary Systems of Ni(II) with Physiological Substrates”  
M. Menelaou, C. Mateescu, A. Salifoglou  
*FIGIPAS 9 Meeting in Inorganic Chemistry (PO-14)*  
July 4-7, 2007, Vienna, Austria
- 122.** “Synthetic Approaches toward the Toxicity of Cr(III) with Biomimetic Substrates of Organic Nature”  
C. Gabriel, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 337-340  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 123.** “Synthetic Investigation of the Interaction of Cr(III) with Quinic Acid in Aqueous Media. The Molecular Chemistry of an Environmental Metallotoxin”  
C. Gabriel, B. Georgantas, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 341-344

May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece

- 124.** “The Chemistry of Cd(II) with Biological Molecules of Low Molecular Mass. Synthetic, Structural and Spectroscopic Studies of the Cd(III)-hydroxyisobutyric acid Complex”  
P. Panagiotidis, A. Salifoglou, J. Kyindris  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 365-368  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 125.** “Study of the Development of the Aqueous Chemistry of Co(II) with Phosphonate Substrates. Synthesis, Structural and Spectroscopic Studies”  
M. Menelaou, A. Salifoglou, C. Mateescu  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 349-352  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 126.** “The Chemistry of Ti(IV) in Ternary Systems Containing H<sub>2</sub>O<sub>2</sub>. Synthetic, Structural and Spectroscopic Studies of the Ti(IV)-peroxo-citrate in Aqueous Solutions”  
P. Panagiotidis, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 361-364  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 127.** “Understanding the Metallobiochemistry of Co(II) through the Structural Speciation of the Binary System Co(II)-Quinic Acid”  
M. Menelaou, A. Constantopai, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 345-348  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 128.** “Study of the Pleiotropic Toxicity of Synthetic Binary Compounds of Vanadium and Cadmium with Citric Acid in Mice”  
A. Stergiadis, C. Nday, J. Lazaridis, A. Georgiou, E.-N. Emmanouil-Nikoloussi, H. Frangou-Masourides, A. Salifoglou  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 549-552  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 129.** “Study of the Interaction of the Metal ion Al(III) with Neuronal NMDA Receptors and Association with the Neurodegenerative Processes of the Alzheimer Type”  
C. Nday, A. Salifoglou, A. J. Drysdale, B. Platt  
*6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering*  
Volume A, p. 557-560  
May 31- June 2, 2007, ABG Conference Center, Kastri, Athens, Greece
- 130.** “Progressive Loss of Hippocampal Cultures from Crystalline Compounds of Metal Ions as a Cause to Neurological Diseases like Alzheimer.”

C. Nday, A.J. Drysdale, B. Platt, A. Salifoglou  
29<sup>th</sup> Scientific Conference E.E.B.E.  
17-19 May 2007, Kavala, Greece

- 131.** “Synthesis and Characterization of Two New Co(II)-Quinate Complex Forms from Aqueous Solutions. Correlation with the Biological Co(II) Speciation”  
Melita Menelaou, A. Konstantopai, A. Salifoglou  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 132.** “The Synthesis, Isolation and Spectroscopic Characterization of a new Ni(II)-Hydroxycarboxylate Complex. Steps toward Understanding of Ni(II) Toxicity”  
Melita Menelaou, C. Mateescu, A. Salifoglou  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 133.** “Investigation of the Aqueous Binary System Al(III)-Organophosphate Ligand. Relevance to Al(III) Biototoxicity”  
Melita Menelaou, V. Georgantas, A. Salifoglou  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 134.** “Investigation of Neurotoxic Effects of Al(III) on Neuronal and Glial Cells Through N-Methyl D-Aspartic Acid Receptors”  
Christiane Nday, Alison J. Drysdale, Bettina Platt, A. Salifoglou  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 135.** “Progressive Loss of Hippocampal Cells by Exposure to Al(III) Compounds. Emphasis on Alzheimer Disease”  
Christiane Nday, Alison J. Drysdale, Bettina Platt, A. Salifoglou.  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
May, 17-18, 2007, Timisoara, Romania
- 136.** Aqueous Studies of The Binary Cr(III)-Citrate System  
Catherine Gabriel, C. Mateescu, A. Salifoglou  
*Trends in Food Safety and Processing*  
Banat University of Agricultural Sciences and Veterinary Medicine  
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- 137.** Aqueous Synthetic Chemistry of Vanadium(V) with Citrate  
Catherine Gabriel, A. Salifoglou  
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- 138.** Study of The Interaction of The Neurotoxin Al(III) With Quinic Acid  
Catherine Gabriel, Melita Menelaou, Athanasios Salifoglou  
*Trends in Food Safety and Processing*  
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- 139.** “The Role of Neuronal Receptors N-Methyl-D-Aspartic Acid Toward Metallotoxic Effects of Al(III)”  
Christiane Nday, A. J. Drysdale, B. Platt, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
- 140.** “Neuroprotective Effects of Two New Crystalline Compounds of Al(III) on Neuronal Cells”  
Christiane Nday, A. J. Drysdale, B. Platt, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
- 141.** “Study of the Interaction of Neurotoxic Al(III) with the Organophosphonic Substrate NTAP”  
M. Menelaou, K. Gabriel, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
- 142.** “Synthesis, Isolation and Physicochemical Characterization of New Crystalline Compounds of Co(II) With Quinic Acid”  
M. Menelaou, A. Constantopai, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
- 143.** “The Neuroprotective Action of Quinic Acid Toward Toxicity Effects of Al(III)”  
J. Lazaridis, A. Stergiadi, Bettina Platt, A. Salifoglou.  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
- 144.** “The Neuroprotective Action of Quinic Acid and the Mesylate Salt of Desferrioxamine (DFO) in the Toxicity of Al(III)”  
J. Lazaridis, B. Drever, Alison J. Drysdale, Bettina Platt, A. Salifoglou.  
*9<sup>th</sup> Greece-Cyprus Conference*  
*Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus

145. "Synthesis, Isolation and Characterization of a New Ternary Compound of Vanadium V(V) with Citric Acid in the Presence of Hydrogen Peroxide"  
C. Gabriel, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference  
Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
  
146. "Synthetic Approaches in the Structural Speciation of Neurotoxic Al(III) with Quinic Acid"  
C. Gabriel, M. Menelaou, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference  
Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
  
147. "Synthetic, Structural and Spectroscopic Studies of Ternary Systems of Ti(IV)-H<sub>2</sub>O<sub>2</sub>-Citric Acid in Aqueous Solution"  
P. Panagiotidis, A. Salifoglou  
*9<sup>th</sup> Greece-Cyprus Conference  
Chemistry and Sustainable Growth*  
April 27-30, 2007, Larnaca, Cyprus
  
148. "The role of the aqueous chemistry of biotoxic aluminum in the presence of quinic acid in neurodegeneration"  
C. Gabriel, M. Menelaou, A. Salifoglou  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
  
149. "The metallotoxicity of Al(III) and the neuroprotective effect of quinic acid"  
J. Lazaridis, A. Stergiadi, A. Salifoglou, B. Platt  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
  
150. "Correlation of Al(III) toxicity with Alzheimer's type neurodegenerative diseases"  
B. Nday, A. J. Drysdale, A. Salifoglou, B. Platt  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
  
151. "Correlation of neurotoxic Al(III) with the action of NMDA receptors in neuronal cells"  
B. Nday, A. J. Drysdale, A. Salifoglou, B. Platt  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece
  
152. "The neuroprotective action of quinic acid and DFO in the metallotoxicity of Al(III) in Alzheimer's disease"  
J. Lazaridis, B. Drever, A. J. Drysdale, A. Salifoglou, B. Platt  
*5<sup>th</sup> National Conference in Alzheimer's Disease and Related Disorders*  
February 22-25, 2007, Thessaloniki, Greece

153. "Synthesis and Characterization of a New Cd(II)-Glycylglycine Complex. Aqueous Cd(II)-Glycylglycine Speciation Studies"  
P. Panagiotidis, C. Mateescu, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania
  
154. "Synthesis, Structural and Spectroscopic Characterization of a New Cr(III)-Citrate Complex. Relevance to Chromium Toxicity"  
Catherine Gabriel, C. Mateescu, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania
  
155. "Synthesis, Structural, Spectroscopic and Magnetic Susceptibility Studies of a Cr(III)-HEIDA (2-Hydroxyethyliminodiacetic Acid) Complex"  
Catherine Gabriel, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania
  
156. "Synthesis, Structural and Spectroscopic Characterization of a New Cr(III)-Quinic Complex. Relevance to Aqueous Toxicity of Chromium"  
Catherine Gabriel, C. Mateescu, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania
  
157. "Synthesis and Characterization of a New Ni(II)-Quinate Complex from Aqueous Solutions. From the Aqueous Speciation to Ni(II) Toxicity"  
Melita Menelaou, A. Salifoglou  
*New Trends in Food Safety and Food Technology*  
May 25-26, 2006, Timisoara, Romania
  
158. "Probing the synthesis, isolation and characterization of the ternary vanadium(V)-peroxo-citrate system"  
C. Gabriel, M. Kaliva, A. Salifoglou  
*5<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 13-15, 2005, Athens, Greece
  
159. "Delving into the structural and spectroscopic investigation of the binary Ti(IV)-citrate system"  
P. Panagiotidis, E. Kefalas, A. Salifoglou  
*5<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 13-15, 2005, Athens, Greece
  
160. "Inorganic-Organic hybrid aqueous chemistry in the binary Mn(II)-quinate system"  
M. Menelaou, A. Salifoglou  
*5<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 13-15, 2005, Athens, Greece
  
161. "Growth of aqueous chemistry of environmental metallotoxin Hg(II) with biomimetic phosphonic substrates"

J. Mpounias, A. Salifoglou  
*5<sup>th</sup> International Symposium on Trace Elements in Human: New Perspectives*  
October 13-15, 2005, Athens, Greece

- 162.** "The synthetic chemistry of Vanadium V(V) with citric acid in the presence of hydrogen peroxide"  
C. Gabriel, M. Kaliva, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
- 163.** "The synthetic chemistry of manganese Mn(II) with quinic acid  
M. Menelaou, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
- 164.** "Synthesis, isolation and characterization of the Al(III)-N-(phosphonomethyl)-iminodiacetic acid hybrid"  
M. Menelaou, N. Kotsakis, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
- 165.** "Synthesis and characterization of new complexes Cd(II)-citric acid. The pH-dependent action of the binary Cd(II)-citric acid system."  
P. Panagiotidis, E. Kefalas, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
- 166.** "Aqueous chemistry of Ti(IV) with physiological ligands. Synthesis and characterization of a new Ti(IV)-citric complex in aqueous media"  
P. Panagiotidis, E. Kefalas, A. Salifoglou  
*20<sup>o</sup> Pan-Hellenic Chemistry Conference*  
*"Chemistry: Education, Research and Implementation"*  
September 20-24, 2005, Ioannina, Greece
- 167.** "Novel sustainable metal catalyzed oxidations with hydrogen peroxide and molecular oxygen"  
Valeria Conte, Marcella Bonchio, Anna Proust, Dieter Rehder, Lage Pettersson, Isabel Arends, Imre Tóth, João Costa Pessoa, Athanasios Salifoglou, Ulrich Kortz, Bernd Jastorff, Elpida-N. Emmanouil-Nikoloussi  
*"Sustainable Green Chemistry and Chemical Technology"*  
*Conference on Knowledge-Based Materials and Technologies for Sustainable Chemistry*  
June 1-5, 2005, Tallin, Estonia.
- 168.** "Structural speciation studies in the binary Al(III)-quinic acid aqueous system  
M. Daskalakis, C. Mateescu, A. Salifoglou

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*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 169.** "Synthesis and characterization of new Cd(II)-citrate complexes. Aqueous Cd(II)-citrate speciation studies"  
 P. Panagiotidis, E. Kefalas, A. Salifoglou  
 Volume XI, No. 1, p. 53-56  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 170.** "A chromium(III)-citrate complex from aqueous solutions  
 C. Gabriel, A. Salifoglou  
 Volume XI, No. 1, p. 57-60  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 171.** "Synthesis of an inorganic-organic hybrid manganese(II)-quinat from aqueous solutions  
 M. Menelaou, A. Salifoglou  
 Volume XI, No. 1, p. 61-64  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 172.** "Structural speciation attempts in the binary Ti(IV)-citrate system in aqueous media"  
 P. Panagiotidis, E. Kefalas, A. Salifoglou  
 Volume XI, No. 1, p. 65-68  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 173.** Speciation studies of Europium(III) with (poly)phosphonate ligands. The case of EDTMP.  
 C. Mateescu, D. Dogaru, E. Princz, A. Salifoglou  
 Volume XI, No. 1, p. 73-78  
*11<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2005*  
 Banat University of Agricultural and Veterinary Medicine  
 May 26-27, 2005, Timisoara, Romania
- 174.** Isolation and characterization of a new complex of neurotoxic Al(III) with citric acid.

- C. Gabriel, M. Menelaou, A. Salifoglou  
 8<sup>th</sup> Greece-Cyprus Chemistry Conference  
 “Chemistry, Quality of Life and Education”  
 December 10-14, 2004, Thessaloniki, Greece
- 175.** Synthetic, spectroscopic and structural speciation studies of insulin mimetic vanadium V(V) in the presence of physiological ligands  
 M. Kaliva, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
 8<sup>th</sup> Greece-Cyprus Chemistry Conference  
 “Chemistry, Quality of Life and Education”  
 December 10-14, 2004, Thessaloniki, Greece
- 176.** Speciation chemistry of cadmium Cd(II) with citric acid. Water-soluble complex species of potential toxicity.  
 P. Panagiotidis, E. Kefalas, A. Salifoglou  
 8<sup>th</sup> Greece-Cyprus Chemistry Conference  
 “Chemistry, Quality of Life and Education”  
 December 10-14, 2004, Thessaloniki, Greece
- 177.** Structural speciation of insulin mimetic vanadium with citric acid in the presence of hydrogen peroxide.  
 M. Kaliva, A. Salifoglou  
 8<sup>th</sup> Greece-Cyprus Chemistry Conference  
 “Chemistry, Quality of Life and Education”  
 December 10-14, 2004, Thessaloniki, Greece
- 178.** Antioxidant Properties and HPLC Analysis of Organic Solvent Extracts from Aqueous Infusions of the Mediterranean Herb “sage” (*Salvia fruticosa* L.).  
 N. Petrakis, A. Salifoglou  
 10<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2004  
 Banat’s University of Agricultural Sciences and Veterinary Medicine.  
 Faculty of Agrofood Technologies  
 May 20-21, 2004, Timisoara, Romania
- 179.** Synthetic, Structural, and Spectroscopic Studies of New Cd(II)-citrate Aqueous Complex. Potential Relevance to Cd(II)-speciation and Links to Cadmium Toxicity.  
 E. T. Kefalas, A. Salifoglou  
 10<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2004  
 Banat’s University of Agricultural Sciences and Veterinary Medicine.  
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 May 20-21, 2004, Timisoara, Romania
- 180.** Synthetic, Structural, and Spectroscopic Studies of an Assembly of Species between Co(II) and N,N-Bis(Phosphonomethyl)glycine (NTA2P).  
 A. Mateescu, P. Baran, R. Raptis, C. Mateescu, A. Salifoglou  
 10<sup>th</sup> Symposium on “Agroalimentary Processes and Technologies” of the Timisoara’s Academic Days 2004  
 Banat’s University of Agricultural Sciences and Veterinary Medicine.

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May 20-21, 2004, Timisoara, Romania

- 181.** Studies of the Aqueous Chemistry of Insulin-Mimetic Vanadium V(V) with Citric Acid and Hydrogen Peroxide  
M. Kaliva, C. Raptopoulou, A. Terzis, A. Salifoglou  
*10<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2004*  
*Banat's University of Agricultural Sciences and Veterinary Medicine.*  
*Faculty of Agrofood Technologies*  
May 20-21, 2004, Timisoara, Romania
- 182.** Protonation Behavior of Aminopolyphosphonic Acids. The Case of EDTMP.  
C. Mateescu, E. Princz, A. Mateescu, A. Salifoglou  
*10<sup>th</sup> Symposium on "Agroalimentary Processes and Technologies" of the Timisoara's Academic Days 2004*  
*Banat's University of Agricultural Sciences and Veterinary Medicine.*  
*Faculty of Agrofood Technologies*  
May 20-21, 2004, Timisoara, Romania
- 183.** Antioxidant activity toward iron promoted oxidation and HPLC analysis in organic solvent extracts generated from aqueous infusions of sage (*Salvia fruticosa* L.)  
M. Kapsokefalou, T. C. Matsingou, N. Petrakis, A. Salifoglou  
*9<sup>th</sup> European Nutrition Conference*  
October 1-4, 2003, Rome, Italy.
- 184.** Synthetic, structural and spectroscopic studies of new tetranuclear Ti(IV)-citrate complexes in relevance to aqueous Ti(IV)-citrate speciation  
E. Kefalas, M. Dakanali, A. Salifoglou  
*11<sup>th</sup> Physical Chemistry Conference with International Participation ROMPHYSICHEM 11*  
September 2-5, 2003, Timișoara, Romania.
- 185.** Speciation studies of aluminum with EDTMP  
A. Mateescu, C. Mateescu, A. Salifoglou  
*11<sup>th</sup> Physical Chemistry Conference with International Participation ROMPHYSICHEM 11*  
September 2-5, 2003, Timișoara, Romania.
- 186.** Study of the antioxidant properties and HPLC analysis of sage extracts in organic solvents  
N. Petrakis, M. Kapsokefalou, A. Salifoglou  
*11<sup>th</sup> Physical Chemistry Conference with International Participation ROMPHYSICHEM 11*  
September 2-5, 2003, Timișoara, Romania.
- 187.** Systematic studies of aqueous chemistry of insulin-mimetic vanadium(V) with citric acid  
M. Kaliva, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
*11<sup>th</sup> Physical Chemistry Conference with International Participation*

- 188.** Varying neurotoxicity upon short-term exposure to different aluminium salts  
A. J. Drysdale, E. v. L. Roloff, A. Salifoglou, B. Platt  
*Fifth Keele Meeting on Aluminium*  
February 22 – 25, 2003  
Keele University, Keele  
United Kingdom
- 189.** Studies of Antioxidant Properties and HPLC Analyses of Sage Extracts  
in Organic Solvents  
N. Petrakis, M. Kapsokefalou, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference in Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 190.** Synthesis, Isolation and Characterization of complexes  $(\text{NH}_4)_5[\text{Ti}_4(\text{O}_2)_4(\text{cit})_2(\text{citH})_2] \cdot 2\text{H}_2\text{O}$  and  $\text{K}_7[\text{Ti}_4(\text{O}_2)_4(\text{cit})_2(\text{citH})_2] \cdot 2\text{H}_2\text{O}$  in Studies of the Aqueous Chemistry of Titanium with the Physiological Citric Acid.  
E. Kefalas, M. Dakanali, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 191.** Interaction among Dinuclear Complexes of Vanadium(IV,V) with Citric Acid in Aqueous Media  
M. Kyriakakis, M. Kaliva, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 192.** Synthesis, Isolation and Characterization of the Complex  $\text{K}[\text{Al}(\text{C}_7\text{H}_{11}\text{O}_6)_3(\text{OH})] \cdot 5\text{H}_2\text{O}$  in the Course of the Study of the Aqueous Chemistry of Aluminum with (1R,3R,4S,5R)-1,3,4,5-tetrahydroxycyclohexane-carboxylic acid (Quinic Acid)  
M. Daskalakis, N. Kotsakis, M. Manioudaki, C. Mateescu, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 193.** Studies of the Effect of Heavy Metals in the Transcriptional Regulation of the H-ras Oncogenes  
T. Alissaphi, M. Kavroulaki, D. Kardasis, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 194.** Studies of the Aqueous Chemistry of Vanadium(V) with Citric Acid  
M. Kaliva, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
November 6-10, 2002, Heraklion, Greece
- 195.** Speciation Studies of Aluminum with (poly)Phosphonate ligands. The Case of EDTMP  
(Ethylene Diamine Tetramethylene Phosphonic acid).



- A. Mateescu, C. Mateescu, A. Salifoglou  
*19<sup>th</sup> Pan-Hellenic Conference on Chemistry*  
 November 6-10, 2002, Heraklion, Greece
- 196.** In vitro Antioxidant Activity of Mediterranean Herb Infusions Toward Iron Under Simulated Gastrointestinal Conditions  
 C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*17<sup>th</sup> International Congress on Nutrition*  
 August 27-31, 2001, Vienna, Austria
- 197.** Study and Potential Biological Relevance of the Aqueous Chemistry of Cobalt(II) in the Presence of Citric Acid.  
 N. Kotsakis, C. P. Raptopoulou, A. Terzis, V. Tangoulis, A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
 March 10-13, 2001, Pireaus, Greece.
- 198.** Studies and Potential Biological Relevance of the Chemistry of Vanadium with Hydroxy Carboxylic Acids in Aqueous Solutions.  
 M. Kaliva, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
 March 10-13, 2001, Pireaus, Greece.
- 199.** Study of the Effect of heavy Toxic Metal Ions in the Transcriptional Regulation of the H-ras Genes.  
 K. Kavroulaki, D. Kardasis, A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
 March 10-13, 2001, Pireaus, Greece.
- 200.** The Chemistry of Lead and Cadmium with Tricarboxylic Acids. Potential Structural Links to the Biototoxicity of Those Heavy Metal Ions.  
 M. Dakanali, M. Kourgiantakis, C. P. Raptopoulou, A. Terzis, A. Salifoglou  
*18<sup>th</sup> Panhellenic Conference in Chemistry*  
 March 10-13, 2001, Pireaus, Greece.
- 201.** Aluminum Carboxylate Chemistry and its Relevance to Neuropathological Disorders  
 M. Kourgiantakis, M. Dakanali, M. Matzapetakis, C. P. Raptopoulou, A. Terzis, A. Lakatos, T. Kiss, A. Salifoglou  
*5<sup>th</sup> FGIPS Meeting in Inorganic Chemistry*  
 October 27-31, 1999, Toulouse, France.
- 202.** Aluminum Complexes relevant to Neurodegenerative Diseases  
 M. Kourgiantakis, M. Dakanali, M. Matzapetakis, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*6<sup>th</sup> Joint Greece-Cyprus Conference in Chemistry*  
 September 2-5, 1999, Rhodes, Greece.
- 203.** Vanadium Tricarboxylic and Dicarboxylic Acid Complexes in Aqueous Solutions  
 A. Salifoglou  
*37<sup>th</sup> IUPAC Congress and 27<sup>th</sup> GDCh General Meeting*  
 August 14-19, 1999, Berlin, Germany.

- 204.** Chemical Studies of Plant and Herb Infusions in the Presence of Prooxidant Metal Ions  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*5<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry*  
April 13-17, 1999, Corfu, Greece.
- 205.** Aluminum Citrate Studies in Neurodegenerative Diseases  
M. Kourgiantakis, M. Dakanali, M. Matzapetakis, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*5<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry*  
April 13-17, 1999, Corfu, Greece.
- 206.** Antioxidant Activity of Plant Extracts Under in vitro Digestion Conditions  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
*9<sup>th</sup> Panhellenic Pharmaceutical Congress*  
November 7-9, 1998, Athens, Greece.
- 207.** Vanadium Citric Acid Chemistry in Aqueous Solutions  
A. Salifoglou, M. Tsaramyrsi, C. P. Raptopoulou, A. Terzis  
XXXIII International Conference on Coordination Chemistry  
"The Chemistry of Metal Ions in Everyday Life"  
August 30 - September 4, 1998, Florence, Italy.
- 208.** Aluminum Citrate Complexes and Neurodegenerative Disease.  
M. Matzapetakis, M. Kourgiantakis, A. Terzis, C. P. Raptopoulou, A. Salifoglou  
*1<sup>st</sup> International Conference of the Chemical Societies of the South-East European Countries*  
"Chemical Sciences and Industry"  
June 1-4, 1998, Halkidiki, Greece.
- 209.** Polyphenols, Iron and Antioxidant Activity in Black Tea.  
C. Matsingou, M. Kapsokefalou, A. Salifoglou  
Dept. of Chemistry, University of Crete, Heraklion, Greece  
*2<sup>nd</sup> Symposium of the Institute of Physical Chemistry*  
"Chemical Research and Industry"  
December 3-5, 1997, NRCPS "Demokritos", Athens, Greece.
- 210.** The Chemical Affinity of Vanadium for Citrates in Biological Fluids.  
M. Tsaramirsi, T. Salifoglou  
Dept. of Chemistry, University of Crete, Heraklion, Greece  
A. Terzis, C. P. Raptopoulou  
NRCPS "Demokritos", Institute of Material Science, Aghia Paraskevi, Attiki, Greece.  
*2<sup>nd</sup> Symposium of the Institute of Physical Chemistry*  
"Chemical Research and Industry"  
December 3-5, 1997, NRCPS "Demokritos", Athens, Greece.
- 211.** The Influence of  $\text{Zn}^{2+}$  on the Biosynthesis of Porphobilinogen by Porphobilinogen Synthase.  
M. Kotsakis, E. Papadimou, A. Salifoglou

- Dept. of Chemistry, University of Crete, Heraklion, Greece  
 A. Terzis, C. P. Raptopoulou  
 NRCPS "Demokritos", Institute of Material Science, Agia Paraskevi, Attiki, Greece.  
*2<sup>nd</sup> Symposium of the Institute of Physical Chemistry*  
*"Chemical Research and Industry"*  
 3-5 December, 1997, NRCPS "Demokritos", Athens, Greece.
- 212.** The affinity of vanadium for citrates expressed through aqueous solution synthetic complexes.  
 M. Tsaramirsi, E. Kotsifaki, T. Salifoglou  
 Dept. of Chemistry, University of Crete, Heraklion, Greece  
 A. Terzis, C. P. Raptopoulou  
 NRCPS "Demokritos", Institute of Material Science, Agia Paraskevi, Attiki, Greece.  
*4<sup>th</sup> (FGIPS) European Mediterranean Conference in Inorganic Chemistry*  
 14-18 October 1997, Corfu, Greece.
- 213.** Metal ion citrate complexes as mobilizing units in the environment.  
 M. Matzapetakis, T. Salifoglou  
 Dept. of Chemistry, University of Crete, Heraklion, Greece  
 A. Terzis, C. P. Raptopoulou  
 NRCPS "Demokritos", Institute of Material Science, Agia Paraskevi, Attiki, Greece.  
*4<sup>th</sup> (FGIPS) European Mediterranean Conference in Inorganic Chemistry*  
 October 14-18, 1997, Corfu, Greece.
- 214.** Toward the active site zinc complex of porphobilinogen synthase.  
 M. Kotsakis, E. Papadimou, A. Salifoglou  
 Dept. of Chemistry, University of Crete, Heraklion, Greece  
 A. Terzis, C. P. Raptopoulou  
 NRCPS "Demokritos", Institute of Material Science, Agia Paraskevi, Attiki, Greece.  
*4<sup>th</sup> (FGIPS) European Mediterranean Conference in Inorganic Chemistry*  
 October 14-18, 1997, Corfu, Greece.
- 215.** Iron polyphenol complexes and antioxidant activity in black tea.  
 C. Matsingou, M. Kapsokefalou, A. Salifoglou  
 Dept. of Chemistry, University of Crete, Heraklion, Greece  
*4<sup>th</sup> (FGIPS) European Mediterranean Conference in Inorganic Chemistry*  
 October 14-18, 1997, Corfu, Greece.
- 216.** Iron polyphenol complexes and antioxidant activity in black tea.  
 C. Matsingou, M. Kapsokefalou, A. Salifoglou  
 Dept. of Chemistry, University of Crete, Heraklion, Greece  
*International Symposium on Trace Elements in Human: New Perspectives*  
 October 9-11, 1997, Athens, Greece.
- 217.** The chemistry of vanadium with (di)tricarboxylic acids at the active centers of biological systems.  
 E. Kotsifaki and A. Salifoglou  
 Department of Chemistry, University of Crete, Heraklion, Greece  
*17<sup>th</sup> Panhellenic Chemical Society Meeting*  
 "Chemistry on the doorstep of the 21st century"

December 1-5, 1996, Patras, Greece.

- 218.** Bioinorganic Complexes of zinc at the active center of Porphobilinogen Synthase (PBGS).  
N. Kotsakis and A. Salifoglou  
Department of Chemistry, University of Crete, Heraklion, Greece  
*17<sup>th</sup> Panhellenic Chemical Society Meeting*  
“Chemistry on the doorstep of the 21st century”  
December 1-5, 1996, Patras, Greece.
- 219.** Gallium tricarboxylic complexes in radiodiagnostic medicine.  
M. Matzapetakis and A. Salifoglou  
Department of Chemistry, University of Crete, Heraklion, Greece  
*17<sup>th</sup> Panhellenic Chemical Society Meeting*  
“Chemistry on the doorstep of the 21st century”  
December 1-5, 1996, Patras, Greece.
- 220.** Physical Characterization of the Molybdenum-Iron Cofactor of Nitrogenase.  
T. A. Collet, A. B. Hickman, T. Salifoglou, D. W. Wright, W. H. Orme-Johnson  
Department of Chemistry, Massachusetts Institute of Technology,  
Cambridge, MA 02139,  
*8<sup>th</sup> International Congress on Nitrogen Fixation*  
May 20-26, 1990, Knoxville, Tennessee, U.S.A.
- 221.** Characterization of a Large Scale Fermentation of *Azotobacter vinelandii*.  
J.-F. P. Hamel, T. Salifoglou, R. J. Murray, A.-F. Miller, D. W. Wright,  
D. Hopkins, A. B. Hickman, C. L. Cooney, W. H. Orme-Johnson  
Departments of Chemistry and Chem. Engineering, M.I.T., Cambridge, MA 02139,  
USA  
*8<sup>th</sup> International Congress on Nitrogen Fixation*  
May 20-26, 1990, Knoxville, Tennessee, U.S.A.
- 222.** MoFe Cofactor of Nitrogenase: Extraction, Purification and Characterization.  
A. B. Hickman, P. A. McLean, T. Salifoglou, D. Wink, D. Wright,  
D. Coucouvanis, W. H. Orme-Johnson  
Department of Chemistry, Massachusetts Institute of Technology,  
Cambridge, MA 02139, USA  
*4<sup>th</sup> International Conference on Bioinorganic Chemistry*  
July 23-28, 1989, Cambridge, Massachusetts, U.S.A.
- 223.** Homocitrate Complexes: Role in MoFe Cofactor Synthesis and Function in Nitrogenase.  
A. B. Hickman, A. F. Miller, T. Salifoglou, K. B. Sharpless, D. Wink,  
W. H. Orme-Johnson  
Department of Chemistry, Massachusetts Institute of Technology,  
Cambridge, MA 02139, USA  
*4<sup>th</sup> International Conference on Bioinorganic Chemistry*  
July 23-28, 1989, Cambridge, Massachusetts, U.S.A.
- 224.** New Mixed Terminal Fe<sub>2</sub>S<sub>2</sub> Complexes. A Comparison with the Fe<sub>2</sub>S<sub>2</sub> Centers in the

Rieske Proteins.

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Society National Meeting*

June 5-10, 1988, Toronto, Canada.