

## ATHANASIOS SALIFOGLOU

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### EDUCATION

**Ph.D., Bioinorganic Chemistry**, The U. of Michigan, Ann Arbor, Michigan, USA 12/1987  
**B.Sc., Chemistry (with honors)**, Aristotle University of Thessaloniki, Thessaloniki, Greece 7/1982

### ACADEMIC RESEARCH RECORD

- ❖ **Professor** Aristotle University of Thessaloniki, Thessaloniki, Greece 2003-present  
**Head of the Laboratory of Inorganic Chemistry and Advanced Materials**  
**Head of the Chemistry Division** 2013-2015, 2018-2020
- ❖ **Director of the Graduate Program** 2008-2010, 2022-2024  
“Processes and Technology in Advanced Materials”  
Faculty of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece
- ❖ Hellenic Open University (FYE12), Greece 2004-present, Coordinator 2016-2017, 2020-2023
- ❖ University of Crete, Heraklion, Greece 1996-2003
- ❖ Massachusetts Institute of Technology, Cambridge, MA, USA 1988-1995
- ❖ New England Medical Center/Tufts U., Boston, USA. 1992-1993
- ❖ The University of Michigan, Ann Arbor, Michigan, USA 1983-1988
- ❖ The University of Iowa, Iowa, USA 1982-1983

### RESEARCH INTERESTS AND ONGOING ACTIVITIES

- Inorganic-organic hybrid surface-modified (dendrimers, liposomes and silica) and magnetic nanoparticles capable of transport, selective and specific delivery of molecular probes to neuro-loci in the brain for imaging. Bioinorganic vanadium, titanium, chromium, and zinc compounds with physiological and biomimetic substrates, as potential pharmaceuticals of anticarcinogenic, neuroprotective, and insulin mimetic activity. Signal transduction and genetic biomarkers. Synthetic, spectroscopic, magnetic, structural and biological studies of vanadium/zinc species bearing physiological and biomimetic hydroxycarboxylic acids and natural products (flavonoids). Controlled release of synthetic-naturally encountered molecules from (macro)molecular cages relevant to metaldrug absorption and bio-activity processes. (Multi)functional materials (sensors) in Biomedical Engineering (nano)technology.
- Transcriptional activation of signal transducing H<sub>α</sub>-Ras through DNA minisatellites in the human genome.
- Bioinformatics in the establishment of properties and processes of biological nanonetworks relevant to cellular (patho)physiologies linked to disease onset, progression and drug administration (theranostics)
- Metallo-induced oxidative stress and pathogenetic processes in neurodegeneration (Alzheimer, etc.) and cancer. Design and development of technological approaches linked to metal-catalyzed oxidative damage of biological tissues. Development of selective chemosensors of essential and non-essential metal ions in relation to clinically pathological conditions in neurodegenerative diseases. Diagnostic molecular biomarkers in Mild Cognitive Impairment and Alzheimer’s dementia.
- Natural antioxidants in human nutrition. 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.
- Surface-modified metallofluorimetric chemosensor technology in the selective separation and recovery of biotoxic metal ions from environmental and biological fluids.

### TEACHING EXPERIENCE

#### Undergraduate

- ❖ Department of Chemical Engineering, Faculty of Engineering Aristotle University of Thessaloniki, Greece 2003-present
- ❖ Department of Mechanical Engineering, Faculty of Engineering Aristotle University of Thessaloniki, Greece 2017-present
- ❖ Hellenic Open University (HOU), Patras, Greece 2004-present
- ❖ Head of the Inorganic Chemistry Division, HOU, Patras, Greece 2016-2017, 2020-present
- ❖ Department of Chemistry, University of Crete, Greece 1996-2003
- ❖ Massachusetts Institute of Technology, Cambridge, MA, USA 1992-1995

## Graduate Programs

- ❖ “Processes & Technology in Advanced Materials”, Aristotle University of Thessaloniki 2003-present
- ❖ “Biomedical Engineering”, Faculty of Engineering, Aristotle University of Thessaloniki 2021-present
- ❖ “Metallo-Biological Processes in Health & Environment”  
Department of Chemistry and Biology, West University of Timisoara, **Romania** 2003-present
- ❖ “Chemical and Biomolecular Engineering”  
School of Chemical Engineering, School of Engineering, Aristotle University 2015-present
- ❖ “Continuing Education Course for Medical Professionals”  
Panhellenic Institute of Neurodegenerative Diseases, **Greece** 2010-2015
- ❖ “Bioinorganic Chemistry”, Department of Chemistry, University of Ioannina, **Greece** 1998-present

## AWARDS AND DISTINCTIONS IN THE PAST 7 YEARS

- ❖ “**Doctor Honoris Causa**” University of Life Sciences “King Mihai I” from Timisoara, Romania
- ❖ Representative of Greece, Inorganic Chemistry Division of the European Chemical Society (**EuChemS**)
- ❖ Elected Member of the Romanian Society for Cell Biology
- ❖ Distinguished member of the Faculty of Chemistry and Biology, West U. of Timisoara, Romania
- ❖ Honorary Professor of the Dept. of Applied Chemistry and Material Sciences  
Polytechnic University of Bucharest, Romania
- ❖ Editorial Board Member of International Journal of Molecular Sciences Journal
- ❖ Adjunct Professor, Department of Chemistry and Biology, West University of Timisoara, Romania
- ❖ Adjunct Professor, Department of Chemical Engineering, University Politehnica, Bucharest, Romania

❖ PUBLICATIONS IN PEER REVIEWED JOURNALS	152
❖ CITATIONS (WEB SCIENCE) -- H-INDEX	8208-43
❖ ADVISOR TO Ph.D. DEGREES AWARDED	18
❖ ADVISOR TO Ph.D. DEGREES CURRENTLY IN PROGRESS	6
❖ ADVISOR TO M.Sc. DEGREES AWARDED	35
❖ ADVISOR TO DIPLOMA THESES AWARDED	132
❖ INVITED TALKS TO NATIONAL/INTERNATIONAL CONFERENCES	236
❖ ARTICLES PRESENTED NATIONAL/INTERNATIONAL CONFERENCES	905
❖ ORGANIZATION OF NATIONAL/INTERNATIONAL CONFERENCES	48
❖ GRANTS AWARDED FOR RESEARCH (Total Budget ~5.6 M €)	28
❖ PARTICIPATION IN GRADUATE STUDY PROGRAMS (INTER)NATIONAL	7
❖ MEMBER IN RESEARCH NETWORKS (EU, COST, BIOMATERIALS)	4
❖ REVIEWER IN INTERNATIONAL JOURNALS	62
❖ REVIEWER OF EU GRANTS	a) SEE-ERA NET.PLUS, b) SEE-ERA NET, c) INCO
❖ REVIEWER OF GREEK GRANTS	a) GSRT, b) MINISTRY OF EDUCATION c) IKY
❖ REVIEWER OF CYPRUS GRANTS	a) INSTITUTE OF RESEARCH PROMOTION
❖ REVIEWER OF UK GRANTS	a) NATURAL ENV. RES. COUNCIL (NERC)
❖ REVIEWER OF HUNGARIAN GRANTS	(OTKA)
❖ REVIEWER OF ROMANIAN GRANTS	(UEFISCDI)
❖ REVIEWER OF QATAR GRANTS	(QNRF)
❖ REVIEWER OF CROATIAN GRANTS	(Croatian Science Foundation)
❖ REVIEWER OF POLISH GRANTS	(National Science Center)
❖ REVIEWER OF SWISS GRANTS	

## SELECT RELEVANT PUBLICATIONS

1. Structural Speciation of Hybrid Ti(IV)-Chrysin Systems—Biological Profiling and Antibacterial, Anti-Inflammatory, and Tissue-Specific Anticancer Activity  
S. Matsia, G. Lazopoulos, A. Hatzidimitriou, A. Salifoglou  
*Molecules* **2025**, *30*(18), 3667.
2. Cornus mas L. Extracts Exhibit Neuroprotective Properties, Further Enhanced by Metal-Bound Energy-Linked Organic Substrates  
G. Lazopoulos, S. Matsia, M. Maroulis, A. Salifoglou  
*Int. J. Mol. Sci.* **2025**, *26*, 1159.