

Georgios C. Vougioukalakis--deleted

Subjects: Chemistry, Organic

Contributor: Georgios C. Vougioukalakis

Prof. Georgios C. Vougioukalakis studied Chemistry at the University of Crete (B.Sc.: 1999, Ph.D.: 2004). During his graduate studies, he spent short periods of time at the University of Sussex and Consiglio Nazionale delle Ricerche in Bologna. He carried out post-doctoral research at the California Institute of Technology (2 years) and the University of Athens (1 year). In 2008, he joined the National Center for Scientific Research Demokritos, with a short visit to the University of California - Irvine, as a Visiting Scholar, in 2012. In 2014, he moved to the Department of Chemistry of the University of Athens, taking up a Lecturer position in Organic Chemistry. He was promoted to Assistant Professor in 2016. At the University of Athens, he is heading the Group of Catalysis and Advanced Materials. His research interests include organic and organometallic chemistry, homogeneous catalysis, and the synthesis of organic and coordination compounds with biological and technological applications. Thus far, he has coauthored 62 peer-reviewed publications (more than 2800 citations, average 2018 Impact Factor = 6.07, h-index = 21) and 4 invited book chapters. He also holds two International Patents in USA, Europe, and China. His research has been presented in 73 international and national conferences and meetings and he has given 22 invited lectures in universities and research institutions in Europe and USA. His distinctions and awards include: A Commendation from The Academy of Athens, a Marie Curie Outgoing International Fellowship, the Leonidas Zervas Foundation Award, and his participation in the 60th Meeting of Nobel Laureates in Lindau, as young scientist. He has participated and currently participates in 27 international and national research projects (as Coordinator, Principal Investigator, and/or Researcher – more than €1,299,000 of competitive funding for his research group during his independent career – last 5 years), he is consultant to a major Greek Pharmaceutical Industry, and serves as evaluator for many scientific journals and research funding agencies including: European Commission (ERC, FET Open, and Marie Curie Programs), as well as the French, Portuguese, Italian, Cypriot, Romanian and Greek National Research Agencies. Webpage: <http://users.uoa.gr/~vougiouk/> (<http://users.uoa.gr/~vougiouk/>).

Keywords: organic chemistry ; catalysis ; coordination chemistry ; organometallic chemistry ; sustainable chemistry ; materials ; biological activity ; technological applications ; solar cells ; fullerenes ; physical organic chemistry

1. Achievements and Career Development

PROFESSIONAL EXPERIENCE / POSITIONS

- June 2019 Erasmus+ Teaching Staff Member

Stockholm University, Department of Organic Chemistry, Stockholm (Sweden): Training of Post-Graduate and Doctoral Students in the Fields of Sustainable Catalysis and Advanced Functional Materials.

- 2017 – July 2019 Adjunct Academic Staff (2 academic years)

Hellenic Open University, School of Science and Technology, Undergraduate Course: Studies in Natural Sciences. Open and distant teaching in the framework of the Course Organic Chemistry. Hellenic Open University's offer to teach for a third year was turned down.

- June 2016 – today Assistant Professor in Organic Chemistry

National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Organic Chemistry, Athens (Greece): Assistant Professor in Organic Chemistry.

- 2014 – June 2016 Lecturer in Organic Chemistry

National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Organic Chemistry, Athens (Greece): Lecturer in Organic Chemistry.

- April 2012 – July 2012 Visiting Scholar

University of California - Irvine, Department of Chemical Engineering and Materials Science, Irvine, California (USA): Bottom-up synthesis of graphene nanoribbons and research in the field of fullerene chemistry.

- 2008 – Dec. 2013 Research Associate

National Centre of Scientific Research "Demokritos", IAMPPNM, Department of Physical Chemistry, Athens (Greece): Design, synthesis, and characterization of organic and coordination compounds with applications in dye-sensitized solar cells. Research in the field of organocatalysis.

- Oct. 2007 – Oct. 2008 Postdoctoral Scholar

National and Kapodistrian University of Athens, Department of Chemistry, Athens (Greece). Collaboration with Prof. N. Hadjichristidis: Design, synthesis, and characterization of organometallic polymerization catalysts. Synthesis and characterization of organic homo- and copolymers with well-defined macromolecular architecture and narrow molecular weight distribution.

- 2005 – Oct. 2007 Postdoctoral Scholar

California Institute of Technology, Division of Chemistry and Chemical Engineering, Pasadena, California (USA). Collaboration with Prof. R. H. Grubbs (Nobel Prize in Chemistry 2005) in the field of organic and organometallic chemistry: Design, synthesis, and mechanistic studies of organometallic complexes that catalyze useful chemical transformations. Applications in the field of organic and polymer chemistry.

- July 2005 – Oct. 2005 Postdoctoral Researcher

University of Crete, Department of Chemistry, Heraklion (Greece). Collaboration with Prof. M. Orfanopoulos: Research in the field of fullerene chemistry, photochemistry, and physical organic chemistry.

- 2004 – June 2005 Military Service (Compulsory)

Greek Air Force. Chemist – Sergeant (Scientific Officer): Quality control of fuels, oils, hydraulics, and fibers used by the Greek Air Force. Platoon leader during the basic training.

- May 2003 – Aug. 2003 Visiting Researcher

University of Sussex, Department of Chemistry, Brighton (UK). Collaboration with Prof. K. Prassides in the field of fullerene and materials chemistry.

- June 2001 – July 2001 Visiting Researcher

Consiglio Nazionale delle Ricerche (Italian National Research Council), Institute for the Organic Synthesis and Photoreactivity, Bologna (Italy). Collaboration with Dr. C. Chatgililoglu: Synthesis and characterization of modified nucleosides for the study of DNA oxidative cleavage.

EDUCATION

- 2004 D.Phil. in Chemistry: University of Crete, Department of Chemistry, Heraklion (Greece). Research Advisor: Prof. M. Orfanopoulos. Thesis title: "New Functionalization Methods and Mechanistic Studies on the Reactions of Fullerene C₆₀ and Azafullerene (C₅₉N)₂. Application of the new C₆₀/Al₂O₃ and C₆₀/SiO₂ Surfaces in Heterogeneous Photo-Oxidations."
- 2002 M.Sc. in Organic Chemistry: University of Crete, Department of Chemistry, Heraklion (Greece). Research in the field of fullerene chemistry, organic photochemistry, and physical organic chemistry. Synthesis and characterization of modified nucleosides for the study of DNA oxidative cleavage.
- 1999 B.Sc. in Chemistry: University of Crete, Department of Chemistry, Heraklion (Greece). Second highest graduation grade of the Chemistry Department class of 1999.

AWARDS / DISTINCTIONS / FELLOWSHIPS

- European Commission's Innovation Radar Prize 2019 for "Innovative Science" Awarded to Project LUMIBLAST (Sept. 2019)

Innovation Radar is a European Commission initiative, which identifies high-potential innovations in EU-funded research and innovation projects. The project "LUMIBLAST: A paradigm shift in cancer therapy – using mitochondria-powered chemiluminescence to non-invasively treat inaccessible tumors", won the first prize in the category "Innovative Science 2019" between all research projects funded by European Commission.

- Greek Representative in the 2016 Young Investigator Workshop of EuCheMs (Sept. 2016 - Invited)

The main goal of EuCheMs (European Association for Chemical and Molecular Sciences) workshops is to promote and recognize academic excellence. This workshop was organized in Huelva, Spain, under the hospice of the Organic Division of EuCheMs. Each National Chemical Society (European countries and USA) nominated one young promising investigator to participate to this workshop. Selected by the Association of Greek Chemists to represent Greece.

- Foundation for Education and European Culture Research Scholarship (Sept. 2012 – Aug. 2013)

Twelve-month research fellowship; awarded on the basis of individual research proposals.

- Greek Representative in the 2013 Young Investigator Workshop of EuCheMs (July 2013 - Invited)

The main goal of EuCheMs (European Association for Chemical and Molecular Sciences) workshops is to promote and recognize academic excellence. This workshop was organized in Marseille, France, under the hospice of the Organic Division of EuCheMs. Each National Chemical Society (European countries, USA, Canada, Japan, and China) nominates one young investigator to participate to this workshop, for which a total of not more than 30 can be chosen. Selected by the Association of Greek Chemists to represent Greece.

- Commendation from the Academy of Athens (2012)

Commendation for the work "Radical reactivity of aza[60]fullerene: Preparation of monoadducts and limitations", awarded during the panegyric session of December 28th 2012. The Academy of Athens awards and commendations are one of the most important distinctions in the fields of research and literature.

- Foundation for Education and European Culture Research Scholarship (Sept. 2011 – Aug. 2012)

Twelve-month research fellowship; awarded on the basis of individual research proposals.

- Alexander Onassis Foundation Scholarship for Participation in the 60th Meeting of Nobel Laureates in Lindau (Germany) as Young Scientist (June - July 2010)

The aim of this globally recognized forum is the exchange of knowledge between Nobel Laureates and promising Young Scientists. Young Scientists, who have to belong to the top 5% of their class internationally, are nominated and selected through a multistage international selection procedure. In total, five Greek Young Scientists working in the fields of Physics, Chemistry, Medicine, or Physiology were chosen to participate in this interdisciplinary meeting.

- Greek National Scholarships Foundation Research Fellowship (Feb. 2009 – Jan. 2010)

Twelve-month research fellowship; granted on the basis of individual research proposals.

- Research Scholarship from Research and Technology Greek Secretariat (Oct. 2008 – Sept. 2012)

Research scholarship funded by the Greek Ministry of Education.

- Marie Curie Outgoing International Fellowship (Oct. 2005 – Oct. 2008)

Three-year postdoctoral fellowship financed by the European Commission. This fellowship is awarded to experienced European researchers on the basis of their individual research proposals. About 10% of the proposals were funded in the specific call.

- Leonidas Zervas Foundation Award for Young Researchers (2004)

Prize awarded to young researchers working in the field of organic chemistry.

- Socrates / Erasmus Fellowship (May 2003 – 2003)

Three-month postgraduate fellowship funded by the European Commission under the Socrates / Erasmus Programme.

- Greek National Scholarships Foundation Fellowship (Nov. 2001 – Oct. 2004)

Three-year D.Phil. fellowship, attained by taking a highly competitive set of exams in a national level. Five chemistry fellowships were awarded that year.

- Greek National Scholarships Foundation Award for Academic Excellence (2000)

Award scholarship for the academic year 1999 – 2000 (Ranked first in average grade at the postgraduate courses in the Chemistry Department of the University of Crete).

- Research Fellowship from Research and Technology Greek Secretariat (Oct. 1999 – Dec. 2001)

Two-year research fellowship for graduate studies.

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