

CURRICULUM VITAE – GEORGIOS C. VOUGIOUKALAKIS

December 2023

Date and place of birth: Rethimno-Crete (Greece), 17/05/1976
Nationality: Greek

Official address: National and Kapodistrian University of Athens
Department of Chemistry
Laboratory of Organic Chemistry
Panepistimiopolis, 15771 Athens, Greece
Tel.: +30-210-7274230
Fax: +30-210-7274761
E-mail: vougiouk@chem.uoa.gr
Webpage: <http://users.uoa.gr/~vougiouk>

Google Scholar: <https://scholar.google.com/citations?user=uVguORYAAAAJ&hl=el&oi=ao>
ORCID: <https://orcid.org/0000-0002-4620-5859>
ResearchGate: <https://www.researchgate.net/profile/Georgios-Vougioukalakis>
LinkedIn: <https://gr.linkedin.com/in/gcvougioukalakis>
Twitter: <https://twitter.com/Vougioukalakis>

PROFESSIONAL EXPERIENCE / POSITIONS

- **Aug. 2020 – today** **Associate Professor in Organic Chemistry**
National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Organic Chemistry, Athens (Greece): Associate Professor in Organic Chemistry.
- **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.
- **Oct. 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 – Aug. 2020** **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.
- **Jan. 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.
- **Oct. 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.

- **Oct. 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.

- **Sept. 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

- **Oct. 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.”

- **Apr. 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.

- **Nov. 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

- **“Key Innovator” of “Excellent Innovations” Identified and Highlighted by European Commission’s Innovation Radar (Nov. 2023)**
Four innovations related to the project “LUMIBLAST: A paradigm shift in cancer therapy – using mitochondria-powered chemiluminescence to non-invasively treat inaccessible tumors” were identified and highlighted by European Commission’s Innovation Radar as “Excellent”: a) New

chemiluminescent agents for immunoassays (exploring – addresses needs of existing markets), b) Assays for metal detection (exploring - addresses needs of existing markets), c) Novel brain cancer therapy based on chemiluminescent compounds in combination with photosensitisers (exploring - high market creation potential), d) Novel photosensitizers for alternative ways of activation other than the external light (exploring - addressing needs of existing markets). Innovation Radar is a European Commission initiative, which identifies high-potential innovations in EU-funded research and innovation projects.

- **European Commission’s “Seal of Excellence” for Project Proposal “Scalpel” (Aug. 2023)**
Awarded to the proposal entitled “Specific Conjugation of Antibodies to Lipid Photo-Peroxidised Cancer Tissues for their Immunogenic Elimination – Scalpel”, which got a 4.6/5.0 total evaluation score. The proposal was recognized as a “high-quality project proposal” in a “highly competitive evaluation process”, including external reviewers and an international panel of independent experts, but could not receive funding due to budgetary constraints and was therefore “recommended by the European Commission for funding by other sources”. Note that other proposals with a 4.6/5.0 were funded in the same call – e.g. due to the existence of female PIs. G. Vougioukalakis was one of the PIs and one of the two key co-authors of the proposal, along with PIs from Oslo University Hospital (Norway), Kemijski Inštitut (Slovenia), Institut Gustave Roussy (France), and the SMEs Porphychem (France) and Eurice (Germany). Requested total project funding: 4,264,428.75 €. Requested funding for the Vougioukalakis Research Group: 608,091.25 €.
- **“Key Innovator” of “Excellent Innovations” Identified and Highlighted by European Commission’s Innovation Radar (June 2022)**
Six innovations related to the project “LUMIBLAST: A paradigm shift in cancer therapy – using mitochondria-powered chemiluminescence to non-invasively treat inaccessible tumors” were identified and highlighted by European Commission’s Innovation Radar as “Excellent”: a) Improved chemiluminescent moieties (exploring – addresses needs of existing markets), b) Novel cancer therapy based on endoplasmic-reticulum-tropic based chemiluminescent compounds in combination with appropriate photosensitisers (business ready - high market creation potential), c) Novel cancer therapy based on mitotropic chemiluminescent compounds in combination with appropriate photosensitisers (business ready - high market creation potential), d) New assays for highly sensitive measurement of metal concentrations (exploring - addressing needs of existing markets), e) Novel photosensitizers for therapies not depending on light penetration into tissues (business ready - high market creation potential), f) Intracellular hydrogen peroxide production measure via chemiluminescence (exploring - high market creation potential). Innovation Radar is a European Commission initiative, which identifies high-potential innovations in EU-funded research and innovation projects.
- **“Key Innovator” of “Excellent Innovations” Identified and Highlighted by European Commission’s Innovation Radar (June 2020)**
Five innovations related to the project “LUMIBLAST: A paradigm shift in cancer therapy – using mitochondria-powered chemiluminescence to non-invasively treat inaccessible tumors” were identified and highlighted by European Commission’s Innovation Radar as “Excellent”: a) Improved chemiluminescent moieties (addressing needs of existing markets), b) Novel glioblastoma therapy based on chemiluminescence & photodynamic therapy (high market creation potential), c) New assays for highly sensitive measurement of metal concentrations (addressing needs of existing markets), d) New photodynamic therapy agents for cancer treatment, and e) Targeted photo dynamic therapy for cancer treatment of inaccessible tumors. Innovation Radar is a European Commission initiative, which identifies high-potential innovations in EU-funded research and innovation projects.
- **Included in the worldwide list of the “Top 2% of Scientists” published by researchers from Stanford University, USA (Aug. 2019 & Sept. 2020 & Oct. 2021 & Oct. 2022 & Oct. 2023)**
This list includes the most highly-cited scientists across science, based on bibliometric data retrieved from Scopus, the largest database of scientific publications. The list is compiled based on the ranking of a composite indicator that considers six citation metrics: total citations; Hirsch h-index; coauthorship-adjusted Schreiber hm-index; number of citations to papers as single author; number of citations to papers as single or first author; and number of citations to papers as single,

first, or last author. Included both in the “career” (taking into consideration the whole career) and “single year” (taking into consideration only the last year) lists.

- **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 – Aug. 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.

TEACHING / TUTORING EXPERIENCE

In the top 15% of the tutors of the Department of Chemistry of the National and Kapodistrian University of Athens, according to the official departmental evaluation data originating from the anonymous questionnaires submitted by the undergraduate students at the end of every semester. Average grade 4.55/5.00, with a departmental average 3.94/5.00.

- **Since 2020** *Instructor:* Undergraduate course "Organic Chemistry I" (National and Kapodistrian University of Athens, Department of Chemistry, 3rd Semester)
- **Since 2020** *Instructor:* Postgraduate module "Basic Principles of Organic Chemistry for the Synthesis of Well-Defined Macromolecular Architectures" in the postgraduate program "Polymer Science and Applications" (National and Kapodistrian University of Athens, Department of Chemistry)
- **June 2019** *Instruction* of postgraduate students and doctoral candidates in the framework of Erasmus+ teaching staff members mobility (Stockholm University, Department of Organic Chemistry, Stockholm, Sweden – 8 hours)
- **Since 2018** *Instructor:* Postgraduate course "Special Chapters of Catalysts in Organic Synthesis" in the postgraduate program "Catalysis and its Applications in the Industry" (National and Kapodistrian University of Athens, Department of Chemistry)
- **Since 2018** *Instructor:* Undergraduate course "Organic Chemistry II" (National and Kapodistrian University of Athens, Department of Chemistry, 4th Semester)
- **2017 to 2019** *Instructor:* Undergraduate course "Organic Chemistry" (Hellenic Open University, School of Science and Technology, Undergraduate Course: Studies in Natural Sciences, 3rd Year) for two academic years (Hellenic Open University's offer to teach for a third year was turned down).
- **Since 2015** *Instructor:* Undergraduate course "Contemporary Methods of Organic Synthesis" (National and Kapodistrian University of Athens, Department of Chemistry, 8th Semester)
- **Since 2015** *Instructor:* Undergraduate course "Materials Chemistry" (National and Kapodistrian University of Athens, Department of Chemistry, 7th Semester)

- **Since 2014** *Instructor:* Undergraduate course "Organic Chemistry III Laboratory" (National and Kapodistrian University of Athens, Department of Chemistry, 6th Semester)
- **2014 to 2017** *Instructor:* Undergraduate course "Organic Chemistry" (National and Kapodistrian University of Athens, Department of Biology, 1st Semester)
- **Since 2010** *Instructor:* Postgraduate module "Organic Transformations in Polymer Synthesis: Principles and Applications" of the course "Use of Polymers in Cutting-Edge Technologies" in the postgraduate program "Polymer Science and Applications" (National and Kapodistrian University of Athens, Department of Chemistry)
- **Since 2010** *Instructor:* Postgraduate module "Transition Metal Organometallic Catalysts in Organic Synthesis" of the course "Organic Synthesis" in the postgraduate program "Organic Synthesis and Applications in the Chemical Industry" (National and Kapodistrian University of Athens, Department of Chemistry)
- **Autonomous supervision of undergraduate and postgraduate students and researchers (postdoctoral and others)**
 - Katerina Prosalenti (Diploma Thesis / Nov. 2023 – today)
 - Paraskevi Pantou (Diploma Thesis / Nov. 2023 – today)
 - Leandros Zorba (Post-Doctoral Research / Nov. 2023 – today)
 - Florentia Stamovlasi-Spiropoulou (M.Sc. Candidate / Oct. 2023 – today)
 - Vasilios Charalampous (M.Sc. Candidate / Oct. 2023 – today)
 - Chara Chatziathanasiou (M.Sc. Candidate / Oct. 2023 – today)
 - Charalampos Petrakos (M.Sc. Candidate / Oct. 2023 – today)
 - Charalampos Koutsilieris (D.Phil. Candidate / May 2023 – today); "Industrial" PhD in collaboration with chemical industry VIORYL S.A.
 - Chrysa Spyrou (M.Sc. Candidate / Oct. 2022 – today)
 - Anthi Tsiadi (M.Sc. Candidate / Oct. 2022 – today)
 - Athanasios Tsaprazlis (M.Sc. Candidate / Oct. 2022 – today)
 - Andreas Polyzogopoulos (M.Sc. Candidate / Oct. 2022 – today)
 - Evagelia Fika (Diploma Thesis / May 2022 – Oct. 2022)
 - Anthi Tsiadi (Diploma Thesis / May 2022 – Oct. 2022)
 - Dimitrios Giannopoulos (D.Phil. Candidate / Mar. 2022 – today)
 - Marianna Danopoulou (D.Phil. Candidate / Dec. 2021 – May 2023)
 - Konstantinos Rogas (M.Sc. Candidate / Oct. 2021 – today)
 - Anastasios Misichronis (M.Sc. Candidate / Oct. 2021 – today)
 - Eleni Stefani (M.Sc. Candidate / Oct. 2021 – today)
 - Despoina Leousi (M.Sc. Candidate / Oct. 2021 – today)
 - Anastasios Misichronis (Diploma Thesis / Nov. 2020 – July 2021)
 - Konstantina-Kalliopi Armadorou (Diploma Thesis / Nov. 2020 – July 2021)
 - Savvas Chalkidis (D.Phil. Candidate / Nov. 2020 – today)
 - Efstathios Tonis (D.Phil. Candidate / Nov. 2020 – today)
 - Efrosini Frousiou (M.Sc. Candidate / Oct. 2020 – Mar. 2023)
 - Maria Mai (M.Sc. Candidate / Oct. 2020 – Mar. 2023)
 - Maria Drimona (M.Sc. Candidate / Oct. 2020 – Mar. 2023)
 - Anna Pantelia (Post-Doctoral Research / Mar. 2020 – Oct. 2020)
 - Entzy Kaplanai (D.Phil. Candidate / Nov. 2019 – today)
 - Dimitrios Giannopoulos (M.Sc. Candidate / Oct. 2019 – Feb. 2022)
 - Ioanna Zgouleta (M.Sc. Candidate / Oct. 2019 – Feb. 2022)

- Eleni-Anastasia Marinaki (M.Sc. Candidate / Oct. 2019 – Feb. 2022)
- Irini Ligieli (M.Sc. Candidate / Oct. 2019 – Oct. 2021): Co-supervision with A. A. Danopoulos (NKUA)
- Andreas Polyzogopoulos (Diploma Thesis / Sept. 2019 – June 2020)
- Nikitas Georgiou (Diploma Thesis / Sept. 2019 – June 2020)
- Felix Stein (D.Phil. Visiting Candidate, Free University of Berlin / Sept. 2019 – Oct. 2019)
- Athanasios Zarkadoulas (Post-Doctoral Research / June 2019 – July 2021)
- Christina Borovilou (Diploma Thesis / Apr. 2019 – Feb. 2020)
- Maria Makri (Diploma Thesis / Apr. 2019 – Feb. 2020)
- Jessica Stubbe (D.Phil. Visiting Candidate, Free University of Berlin / March 2019)
- Leandros Zorba (D.Phil. Candidate / Feb. 2019 – Nov. 2023)
- Elena Kotroni (Research / Feb. 2019 – July 2019)
- Savvas Chalkidis (M.Sc. Candidate / Oct. 2018 – Oct. 2020)
- Efstathios Tonis (M.Sc. Candidate / Oct. 2018 – Oct. 2020)
- Nikolaos Tzouras (D.Phil. Candidate / Nov. 2018 – July 2023): Co-supervision with S. P. Nolan (Ghent University, Belgium)
- Danae Zisimopoulou (Research / Sept. 2018 – July 2019)
- Aikaterini Bouga (Diploma Thesis / Mar. 2018 – Oct. 2018)
- Christianna Vrettou (Diploma Thesis / Mar. 2018 – Oct. 2018)
- Andreas Grigori (M.Sc. Candidate / Oct. 2017 – Oct. 2020)
- Stavros Neofotistos (M.Sc. Candidate / Oct. 2017 – Oct. 2019)
- Theodoros Mikroulis (D.Phil. Candidate / July 2017 – Oct. 2021)
- Konstantinos Patiniotis (Diploma Thesis / Dec. 2016 – Oct. 2017)
- Charikleia-Maria Papou (Diploma Thesis / Dec. 2016 – Oct. 2017)
- Nikolaos Tzouras (M.Sc. Candidate / Oct. 2016 – Oct. 2018)
- Elena Kotroni (M.Sc. Candidate / Oct. 2016 – Feb. 2019)
- Anna Pantelia (D.Phil. Candidate / June 2016 – Mar. 2020)
- Anna Lazaridou (Diploma Thesis / May 2016 – Feb. 2017)
- Stavros Neofotistos (Diploma Thesis / May 2016 – Feb. 2017)
- Georgios Rotas (Post-Doctoral Research / Mar. 2016 – Nov. 2021)
- Elena Kotroni (Diploma Thesis / Dec. 2015 – Oct. 2016)
- Nikolaos Tzouras (Diploma Thesis / Dec. 2015 – Oct. 2016)
- Danae Zisimopoulou (M.Sc. Candidate / Nov. 2015 – June 2018)
- Ioannis Stamatopoulos (Post-Doctoral Research / June 2015 – June 2019)
- Aggeliki Makri (Diploma Thesis / May 2015 – Feb. 2016)
- Martha Rigkou (Diploma Thesis / May 2015 – Oct. 2015)
- Christina Prevezanou (Diploma Thesis / May 2015 – Oct. 2015)
- Theodoros Mikroulis (Diploma Thesis / Jan. 2015 – July 2015)
- Panagiota Markopoulou (Diploma Thesis / Jan. 2015 – July 2015)
- Aggeliki Liori (M.Sc. Candidate / Oct. 2014 – Feb. 2017)
- Ira-Despoina Daskalaki (M.Sc. Candidate / Oct. 2014 – Feb. 2017)
- Jeroen van der Velden (D.Phil. Visiting Candidate, Italian Institute of Technology / May 2014 – Aug. 2014)
- Kostantinos Armaos (Diploma Thesis / May 2014 – Feb. 2016)
- Argyro T. Papastavrou (D.Phil. Candidate / Feb. 2014 – July 2019)
- Afroditi Pinaka (Post-Doctoral Research / Nov. 2013 – Nov. 2015)
- Alexandros Sklavounos (M.Sc. Student / July 2013 – Oct. 2015): Co-supervision with Prof. A. C. Calokerinos (University of Athens)

- Natalie Marie Frangi (D.Phil. Candidate / Apr. 2013 – today): Co-supervision with Dr. P. Falaras (NCSR Demokritos)
 - Victoria Manthou (M.Sc. Student / Oct. 2012 – Oct. 2014)
 - Antonis N. Kabanakis (D.Phil. Candidate / Oct. 2012 – July 2020): Co-supervision with Dr. P. Falaras (NCSR Demokritos)
 - Eleftherios K. Pefkianakis (Post-Doctoral Research / Jan. 2012 – Feb. 2016)
- ***Member of advisory and examination committees of D.Phil. Theses and M.Sc. Theses***
- Martha Kafetzi (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Nov. 2023)
 - Mios Georgios (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Yakinthi Batsi (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Oct. 2023)
 - Nikoletta Roka (D.Phil. Thesis, Chemistry Department, University of Athens / Oct. 2023)
 - Spiridon Ferikoglou (M.Sc. Thesis, Chemistry Department, University of Patras / Sept. 2023)
 - Polixeni Aggelopoulou (D.Phil. Thesis, Chemistry Department, University of Athens / June 2023)
 - Despoina Giaouzi (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / June 2023)
 - Anastasia Seliavo (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Stavros Neofotistos (D.Phil. Thesis, School of Chemical Engineering, N.T.U.A. / ongoing)
 - Ioannis Stylianakis (D.Phil. Thesis, Department of Pharmacy, University of Athens / Feb. 2023)
 - Christos Pantazidis (D.Phil. Thesis, Chemistry Department, University of Athens / Nov. 2022)
 - Vasilis Sapsanis (M.Sc. Thesis, Chemistry Department, University of Athens / Nov. 2022)
 - Ageliki Chroni (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Mar. 2022)
 - Irimi Ligieli (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Stavros Zouganelis (D.Phil. Thesis, Chemistry Department, University of Athens / Mar. 2022)
 - Chara Theofilou (M.Sc. Thesis, Chemistry Department, University of Athens / July 2022)
 - Katerina Katsogiannou (M.Sc. Thesis, Chemistry Department, University of Athens / June 2022)
 - Filippos Foteinakis (M.Sc. Thesis, Chemistry Department, University of Athens / July 2022)
 - Koutsoumpogeras Ioannis (M.Sc. Thesis, Chemistry Department, University of Athens / Feb. 2022)
 - Almpanis Kanellos (M.Sc. Thesis, Chemistry Department, University of Athens / Feb. 2022)
 - Nikitas Malliaros (D.Phil. Thesis, Chemistry Department, University of Crete / Oct. 2021)
 - Andrianopoulou Evgenia (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2021)
 - Anastasia Louka (D.Phil. Thesis, Chemistry Department, University of Crete / Sept. 2021)
 - Christina Kotzatrati (M.Sc. Thesis, Chemistry Department, University of Athens / July 2021)
 - Georgios Atsaves (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Spiridoula-Lida Bitsi (D.Phil. Thesis, Chemistry Department, University of Athens / Dec. 2020)
 - Fotini Triga (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2020)
 - Maria Apostolopoulou (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2020)
 - Georgios Atsaves (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2020)
 - Andriana Schiza (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / ongoing)
 - Konstantinos Patiniotis (M.Sc. Thesis, Chemistry Department, University of Athens / Mar. 2020)
 - Maria-Malvina Stathouraki (D.Phil. Thesis, Chemistry Department, University of Athens / Feb. 2020)
 - Theodoros Sentoukas (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Dec. 2019)
 - Ekaterini Panagiotaki (D.Phil. Thesis, Chemistry Department, University of Athens & Demokritos / Nov. 2019)
 - Mavroidi Panagiou (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Ardiol Achmetlli (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2019)
 - Michail Minadakis (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2019)
 - Irimi Emmanouil (D.Phil. Thesis, Chemistry Department, University of Athens / ongoing)
 - Athanasios Skandalis (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Oct. 2019)

- Rodalia-Varvara Babaiti (M.Sc. Thesis, Chemistry Department, University of Athens / July 2019)
 - Irini Emmanouil (M.Sc. Thesis, Chemistry Department, University of Athens / July 2019)
 - Ioanna Sideri (M.Sc. Thesis, Chemistry Department, University of Athens / June 2019)
 - Emmanouil Mygiakis (D.Phil. Thesis, Chemistry Department, University of Athens / Apr. 2019)
 - Eleni-Maria Kasimati (D.Phil. Thesis, Chemistry Department, University of Athens & Demokritos / ongoing)
 - Emmanouil Psykarakis (D.Phil. Thesis, Chemistry Department, University of Athens / Feb. 2019)
 - Polydoros Ioannou (D.Phil. Thesis, Chemistry Department, University of Athens / Nov. 2018)
 - Nikolaos Nikitas (D.Phil. Thesis, Chemistry Department, University of Athens / Sept. 2021)
 - Anatoli Savidou (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2017)
 - Christianna Nikovia (D.Phil. Thesis, Chemistry Department, University of Athens / Apr. 2017)
 - Georgios Papadopoulos (D.Phil. Thesis, Chemistry Department, University of Athens / June 2017)
 - Katerina Pagoni (M.Sc. Thesis, Chemistry Department, University of Athens / Feb. 2017)
 - Errika Voutyritsa (D.Phil. Thesis, Chemistry Department, University of Athens / Feb. 2020)
 - Panagiotis Giannopoulos (D.Phil. Thesis, Chemistry Department, University of Patras / June 2017)
 - Anastasios Stergiou (D.Phil. Thesis, Chemistry Department, University of Crete & N.H.R.F. / Jan. 2017)
 - Alexis Theodorou (D.Phil. Thesis, Chemistry Department, University of Athens / Dec. 2016)
 - Georgios Theodosopoulos (D.Phil. Thesis, Chemistry Department, University of Athens / Oct. 2016)
 - Periklis Tsikouris (M.Sc. Thesis, Chemistry Department, University of Athens & Demokritos / Oct. 2016)
 - Vasileios Ntatsopoulos (D.Phil. Thesis, Chemistry Department, University of Athens / Oct. 2019)
 - Konstantinos F. Mavreas (M.Sc. Thesis, Chemistry Department, University of Athens / Mar. 2016)
 - Evanthia I. Papadaki (D.Phil. Thesis, Chemistry Department, University of Athens / Dec. 2019)
 - Labrini Gaglia (M.Sc. Thesis, Chemistry Department, University of Athens & Demokritos / Oct. 2016 - Advisor)
 - Vasileios Ntatsopoulos (M.Sc. Thesis, Chemistry Department, University of Athens / Feb. 2016)
 - Evanthia I. Papadaki (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2015)
 - Dimitrios Chronopoulos (D.Phil. Thesis, Chemistry Department, University of Athens & N.H.R.F. / Oct. 2014)
 - Anthi Sypsa (M.Sc. Thesis, Chemistry Department, University of Athens / Oct. 2014)
- **2001 – 2002 (1 Semester):** *Teaching Assistant:* “Organic Chemistry II” (University of Crete, Department of Chemistry)
 - **2001 – 2003 (2 Semesters):** *Teaching Assistant:* “Organic Chemistry I” (University of Crete, Department of Chemistry)
 - **2000 – 2001 (1 Semester):** *Teaching Assistant:* “Laboratory Course in Inorganic Chemistry II” (University of Crete, Department of Chemistry)
 - **Ancillary guidance and supervision of postgraduate and postdoctoral students:** University of Crete: Manolis M. Roubelakis (M.Sc. and D.Phil.), Mariza N. Alberti (M.Sc. and D.Phil.), Panagiotis D. Sarafis (M.Sc.). National and Kapodistrian University of Athens: Nikolaos Petzetakis (M.Sc.), Maria Kourti (M.Sc.). National Centre of Scientific Research "Demokritos": Georgia Konti (D.Phil.), Afroditi Pinaka (D.Phil.). University of California – Irvine: Anthony Burke (Post Doc.), Amir Mazaheripour (D.Phil.), Josh Dibble (Post Doc.).

PRINCIPAL RESEARCH INTERESTS

- Design, synthesis, and mechanistic studies of organometallic complexes, coordination compounds, organocatalysts, and other catalytic systems that catalyze useful chemical and photochemical transformations.

- Synthesis of nanostructures, typically containing organic sensitizers, other organic molecules, coordination compounds, graphene nanoribbons, fullerenes, and/or carbon nanotubes, mostly related to energy issues and nanotechnology.
- Design, synthesis, and characterization of organic and coordination compounds of biological relevance and potential applications (photodynamic therapy, enzyme inhibition, DNA intercalation, mitochondrial targeting and mitochondrial nanocarriers, endoplasmic reticulum targeting, cellular immunology, etc.).
- Development of synthetic and functionalization methodologies for graphene nanoribbons, carbon nanotubes, fullerene C₆₀, and heterofullerenes.

RESEARCH PUBLICATIONS

- (92) Zorba, L. P.; Stylianakis, I.; Tsoureas, N.; Kolocouris, A.; Vougioukalakis, G. C.* *submitted* “Copper-catalyzed one-pot synthesis of thiazolidin-2-imines”
- (91) Mikroulis, T.; Rodriguez-Muniz, G. M.; Rotas, G.*; Miranda, M. A.*; Vougioukalakis, G. C.* *submitted* “Luminol-fullerene dyads: Synthesis, photophysical and chemiexcitation properties”
- (90) Canton-Vitoria, R.*; Kagoura, A.; Tonis, E.; Heliopoulos, N.; Galeou, A.; Prombona, A.; Stamatakis, K.; Boukos, N.; Siamidis, D.; Vougioukalakis, G. C.*; Tagmatarchis, N.* *submitted* “Covalent post-functionalization of Kevlar with graphene oxide-melamine for UV-light protection and antibacterial properties”
- (89) Danopoulou, M.; Zorba, L. P.; Tzeli, D.; Vougioukalakis, G. C.* *submitted*. “Copper-catalyzed α -alkylation of arylacetoneitriles with benzyl alcohols through C(sp³)-H functionalization”
- (88) Mavroeidi, P.; Zorba, L. P.; Tzouras, N. V.; Neofotistos, S. P.; Georgiou, N.; Sahin, K.; Senturk, M.; Durdagi, S.*; Vougioukalakis, G. C.*; Mavromoustakos, T.* *submitted*. “Probing the MAO enzymes with a novel family of quaternary propargylamine derivatives”
- (87) Bukke, R. N.; Syzgantseva, O. A.; Syzgantseva, M. A.; Aidinis, K.; Soultati, A.; Verykios, A.; Tountas, M.; Psycharis, V.; Alshahrani, T.; Ullah, H.; Zorba, L. P.; Vougioukalakis, G. C.; Nazeeruddin, M. K.*; Vasilopoulou, M.*; Yusoff, A. R. M.* *Nature Electronics* under revision. “Strain relaxation and multidentate anchoring for n-type perovskite transistors and logical circuits”
- (86) Drymona, M.; Kaplanai, E.; Vougioukalakis, G. C.* *Eur. J. Org. Chem.* under revision. “An in situ formed copper-based perfluorinated catalytic system for the aerobic oxidation of alcohols”
- (85) Chalkidis, S. G.; Vougioukalakis, G. C.* *Eur. J. Org. Chem.* **2023**, e202301095. “KA² coupling, catalyzed by well-defined NHC-coordinated copper(I): Straightforward and efficient construction of α -tertiary propargylamines”
- (84) Tonis, E.; Frousiou, E.; Heliopoulos, N.; Kagkoura, A.; Stangel, C.; Siamidis, D.; Galeou, A.; Prombona, A.; Stamatakis, K.; Boukos, N.; Tagmatarchis, N.; Vougioukalakis, G. C.* *ACS Omega* **2023**, *8*, 44708-44716. “VAR fabric modification: Inducing antibacterial properties, altering wettability/water repellence, and understanding reactivity at the molecular level”
- (83) Adejumo, T. T.; Danopoulou, M.; Zorba, L. P.; Pevec, A.; Zlata, M.; Radanovic, D.; Savic, M.; Gruden, M.; Andelkovic, K. K.; Turel, I.*; Cobelic, B.*; Vougioukalakis, G. C.* *Eur. J. Inorg. Chem.* **2023**, *26*, e202300193. “Correlating Structure and KA² Catalytic Activity of Zn(II) Hydrazone Complexes”
- (82) Tonis, E.; Frousiou, E.; Heliopoulos, N.*; Kagkoura, A.; Stangel, C.; Canton-Vitoria, R.; Vasilakos, S.; Siamidis, D.; Galeou, A.; Stamatakis, K.; Prombona, A.; Boukos, N.; Tagmatarchis, N.; Vougioukalakis, G. C.* *Mater. Today Chem.* **2023**, *33*, 101695. “Kevlar[®] and Nomex[®] modification via 2,4-dihydroxybenzophenone anchoring improves water repellency and induces antibacterial and UV protection properties”

- (81) Kaplanai, E.; Tonis, E.; Drymona, M.; Zagranyski, Y.; Tzeli, D.; Vougioukalakis, G. C.* *J. Org. Chem.* **2023**, *88*, 11552-11561. "Microwave assisted, copper catalyzed domino O-H/C-H arylation reaction towards the synthesis of oxygen-doped polyaromatic molecules"
- (80) Frousiou, E.; Tonis, E.; Rotas, G.; Pantelia, A.; Chalkidis, S. G.; Heliopoulos, N.; Kagkoura, A.; Siamidis, D.; Galeou, A.; Prombona, A.; Stamatakis, K.; Boukos, N.; Vougioukalakis, G. C.* *Molecules* **2023**, *28*, 5465. "Kevlar[®], Nomex[®], and VAR modification by small organic molecules anchoring: Transfusing antibacterial properties and improving water repellency"
- (79) Vanden Broeck, S. M. P.; Tzouras, N. V.; Saab, M.; Van Hecke, K.; Dereli, B.; Ritacco, I.; Cavallo, L.; Vougioukalakis, G. C.; Braunstein, P.; Nolan, S. P.*; Danopoulos, A. A.*; Cazin, C. S. J.* *Dalton Trans.* **2023**, *52*, 9908-9912. "Gold complexes with remote-substituted amino N-heterocyclic carbenes"
- (78) Tzouras, N. V.; Zorba, L. P.; Kaplanai, E.; Tsoureas, N.; Nelson, D. J.; Nolan, S. P.*; Vougioukalakis, G. C.* *ACS Catal.* **2023**, *13*, 8845-8860. "Hexafluoroisopropanol (HFIP) as a multifunctional agent in gold-catalyzed cycloisomerizations and sequential transformations" *Published as preprint in ChemRxiv, April 05 2023, DOI: <https://doi.org/10.26434/chemrxiv-2023-9pdgb>*
- (77) Giannopoulos, D. K.; Zorba, L. P.; Zisis, C.; Pitsikalis, M.*; Vougioukalakis, G. C.* *Eur. Polym. J.* **2023**, *191*, 112056. "A³ polycondensation: A multicomponent step-growth polymerization reaction for the synthesis of polymeric propargylamines"
- (76) Font, P.; Tzouras, N. V.; Papastavrou, A. T.; Vougioukalakis, G. C.*; Ribas, X.* *Molecules* **2023**, *28*, 2302. "Novel NHC-Based Au(I) Complexes as Precursors of Highly Pure Au(0) Nuggets under Oxidative Conditions"
- (75) Fakharuddin, A.*; Armadorou, K. K.; Zorba, L. P.; Tountas, M.; Seewald, T.; Soultati, A.; Tsipas, P.; Schütz, E. R.; Tzoganakis, N.; Panagiotakis, S.; Yannakopoulou, K.; Dimoulas, A.; Psycharis, V.; Kymakis, E.; Yusoff, A. R. M.; Aidinis, K.; Schmidt-Mende, L.; Vougioukalakis, G. C.*; Nazeeruddin, M. K.*; Vasilopoulou, M.* *Chin. J. Chem.* **2023**, *41*, 431-442. "A Triethyleneglycol C60 Mono-adduct Derivative for Efficient Electron Transport in Inverted Perovskite Solar Cells"
- (74) Rotas, G.*; Antoniou, G.; Papagiorgis, P.; Basu, A.; Panidi, J.; Ufimkin, P.; Tsetseris, L.; Itskos, G.; Heeney, M.; Vougioukalakis, G. C.; Anthopoulos, T. D.; Keivanidis, P. E.* *J. Mater. Chem. C.* **2022**, *10*, 12751-12764. "Doping-induced decomposition of organic semiconductors: a caveat to the use of Lewis acid p-dopants"
- (73) Tzouras, N. V.; Gobbo, A.; Pozsoni, N. B.; Chalkidis, S. G.; Bhandary, S.; Van Hecke, K.; Vougioukalakis, G. C.*; Nolan, S. P.* *Chem. Commun.* **2022**, *58*, 8516-8519. "Hydrogen bonding-enabled gold catalysis: ligand effects in gold-catalyzed cycloisomerizations in hexafluoroisopropanol (HFIP)"
- (72) Tzouras, N. V.; Scattolin, T.; Gobbo, A.; Bhandary, S.; Rizzolio, F.*; Cavarzerani, E.; Canzonieri, V.; Van Hecke, K.; Vougioukalakis, G. C.; Cazin, C. S. J.; Nolan, S. P.* *ChemMedChem* **2022**, e202200135. "A Green Synthesis of Carbene-Metal-Amides (CMAs) and Carboline-Derived CMAs with Potent in vitro and ex vivo Anticancer Activity"
- (71) Rodriguez-Muniz, G. M.; Mikroulis, T.; Pantelia, A.; Rotas, G.; Consuelo Cuquerella, M.; Vougioukalakis, G. C.*; Miranda, M. A.* *Molecules* **2022**, *27*, 1245. "Modulation by Phosphonium Ions of the Activity of Mitotropic Agents Based on the Chemiluminescence of Luminols" *Published as preprint in Research Square, October 22 2021, DOI: <https://doi.org/10.21203/rs.3.rs-971575/v1>*
- (70) Zorba, L. P.; Egana, E.; Gomez-Bengoia, E.; Vougioukalakis, G. C.* *ACS Omega* **2021**, *6*, 23329-23346. "Zinc Iodide Catalyzed Synthesis of Trisubstituted Allenes from Terminal Alkynes and Ketones"
- (69) Vasilopoulou, M.*; Rashid bin Mohd Yusoff, A.*; Daboczi, M.; Conforto, J.; Ximim Gavim, A. E.; Jose da Silva, W.; Gerniski Macedo, A.; Soultati, A.; Pistolis, G.; Schneider, F. K.; Dong, Y.;

- Jacoutot, P.; Rotas, G.; Jang, J.; Vougioukalakis, G. C.; Chochos, C. L.;* Kim, J. S.; Gasparini, N.* *Nature Commun.* **2021**, *12*, 4868. “High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence”
- (68) Mikroulis, T.; Consuelo Cuquerella, M.; Giussani, A.; Pantelia, A.; Rodriguez-Muniz, G. M.; Rotas, G.; Roca-Sanjuan, D.;* Miranda, M. A.;* Vougioukalakis, G. C.* *J. Org. Chem.* **2021**, *86*, 11388-11398. “Building a Functionalizable, Potent Chemiluminescent Agent: A Rational Design Study on 6,8-Substituted Luminol Derivatives”
- (67) Zarkadoulas, A.; Zgouleta, I.; Tzouras, N. V.; Vougioukalakis, G. C.* *Catalysts* **2021**, *11*, 554. “Traceless Directing Groups in Sustainable Metal-Catalyzed C–H Activation” *Fifth most cited article of the journal in 2021*
- (66) Tonis, E.; Stein, F.; Stamatopoulos, I. K.; Stubbe, J.; Zarkadoulas, A.; Sarkar, B.;* Vougioukalakis, G. C.* *Synlett* **2021**, *32*, 616-620. “A Pd-free Sonogashira Coupling Protocol Employing an In-Situ-Prepared Copper/Chelating 1,2,3-Triazolylidene System”
- (65) Zorba, L. P.; Vougioukalakis, G. C.* *Coord. Chem. Rev.* **2021**, *429*, 213603. “The Ketone-Amine-Alkyne (KA²) Coupling Reaction: Transition Metal-Catalyzed Synthesis of Quaternary Propargylamines”
- (64) McLoughlin, C. K.; Kotroni, E.; Bregnhøj, M.; Rotas, G.; Vougioukalakis, G. C.;* Ogilby, P. R.* *Sensors* **2020**, *20*, 5172. “Oxygen- and pH-Dependent Photophysics of Fluorinated Fluorescein Derivatives: Non-Symmetrical vs. Symmetrical Fluorination” *Invited Article*
- (63) Adejumo, T. T.; Tzouras, N. V.; Zorba, L. P.; Radanovic, D.; Pevec, A.; Grubisic, S.; Mitic, D.; Andelkovic, K. K.; Vougioukalakis, G. C.;* Cobeljic, B.;* Turel, I.* *Molecules* **2020**, *25*, 4043. “Synthesis, Characterization, Catalytic Activity, and DFT Calculations of Zn(II) Hydrazone Complexes” *Invited Article. One of the Zn(II) hydrazone complexes was selected as “Molecule of the Week” from the journal and was included in “Encyclopedia”.*
- (62) Neofotistos, S. P.; Tzouras, N. V.; Pauze, M.; Gomez-Bengoa, E.; Vougioukalakis, G. C.* *Adv. Synth. Catal.* **2020**, *362*, 3872-3885. “Manganese-Catalyzed Multicomponent Synthesis of Tetrasubstituted Propargylamines: System Development and Theoretical Study”
- (61) Pantelia, A.; Daskalaki, I.; Consuelo Cuquerella, M.; Rotas, G.; Miranda, M. A.;* Vougioukalakis, G. C.* *Molecules* **2019**, *24*, 3957. “Synthesis and Chemiluminescent Properties of Amino-Acylated luminol Derivatives Bearing Phosphonium Cations”
- (60) Tzouras, N. V.; Neofotistos, S. P.; Vougioukalakis, G. C.* *ACS Omega* **2019**, *4*, 10279-10292. “Zn-Catalyzed Multicomponent KA² Coupling: One-Pot Assembly of Propargylamines Bearing Tetrasubstituted Carbon Centers”
- (59) Voutyritsa, E.; Triandafillidi, I.; Tzouras, N. V.; Nikitas, N. F.; Pefkianakis, E. K.; Vougioukalakis, G. C.;* Kokotos, C. G.* *Molecules* **2019**, *24*, 1644. “Photocatalytic Atom Transfer Radical Addition to Olefins Utilizing Novel Photocatalysts” *Part of a Special Issue entitled “Photocatalytic Strategies in Organic Synthesis”. Feature Paper.*
- (58) Milenkovic, M. R.; Papastavrou, A. T.; Radanovic, D.; Pevec, A.; Jaglicic, Z.; Zlatar, M.; Gruden, M.; Vougioukalakis, G. C.; Turel, I.; Andelkovic, K.;* Cobeljic, B.* *Polyhedron* **2019**, *165*, 22-30. “Highly-Efficient N-Arylation of Imidazole Catalyzed by Cu(II) Complexes with Quaternary Ammonium-Functionalized 2-Acetylpyridine Acylhydrazone”
- (57) Papastavrou, A. T.; Pauze, M.; Gomez-Bengoa, E.; Vougioukalakis, G. C.* *ChemCatChem* **2019**, *11*, 5379-5386. “Unprecedented Multicomponent Organocatalytic Synthesis of Propargylic Esters via CO₂ Activation” *Part of a Special Issue entitled “New Concepts in Homogeneous Catalysis”, showcasing “some of the best research at the frontiers of homogeneous catalysis” – Guest Editors: Lutz Ackermann and Jean-Baptiste Sortais. Featured in the “Organocatalysis” section of the “Hot Topics” list of Wiley-VCH. Among the 10% of the Most Downloaded Papers in recent publications history (April 2020).*

- (56) Kabanakis, A. N.; Bidikoudi, M.; Elsenety, M. M.; Vougioukalakis, G. C.;* Falaras, P.* *Dyes and Pigments* **2019**, *165*, 308-318. "Synthesis of Novel Semi-Squaraine Derivatives and Application in Efficient Dye-Sensitized Solar Cells"
- (55) Liori, A.; Stamatopoulos, I. K.; Papastavrou, A. T.; Pinaka, A.; Vougioukalakis, G. C.* *Eur. J. Org. Chem.* **2018**, *2018*, 6134-6139. "A Novel, Sustainable, User-Friendly Protocol for the Pd-Free Sonogashira Coupling Reaction" *Invited Article (Invited Author)*. 3rd "Most Accessed" article (1st "Most Accessed" research article) of *Eur. J. Org. Chem.* in December 2018. Part of a Special Issue entitled "C-H Activation in Organic Synthesis". Among the 10% of the Most Downloaded Papers in recent publications history (April 2020).
- (54) Stamatopoulos, I. K.; Kapsi, M.; Roulia, M.; Vougioukalakis, G. C.; Raptopoulou, C. P.; Psycharis, V.; Kostas, I. D.;* Kollár, L.;* Kyritsis, P.* *Polyhedron* **2018**, *151*, 292-298. "Structural Features and Catalytic Reactivity of [Pd{(Ph₂P)₂N(CH₂)₃Si(OCH₃)₃-κP,P'}I₂] and Related Complexes in Hydroalkoxycarbonylation and Suzuki-Miyaura C-C Cross-Coupling Reactions" *Invited Article*
- (53) Tzouras, N. V.; Stamatopoulos, I. K.; Papastavrou, A. T.; Liori, A.; Vougioukalakis, G. C.* *Coord. Chem. Rev.* **2017**, *343*, 25-138. "Sustainable Metal Catalysis in C-H Activation"
- (52) Manthou, V. S.; Perganti, D.; Rotas, G.; Falaras, P.;* Vougioukalakis, G. C.* *Synlett* **2017**, *28*, 929-933. "5-Alkyl-8-hydroxyquinolines: Synthesis and Application in Dye-Sensitized Solar Cells" *Invited Article (Invited Author)*
- (51) Vougioukalakis, G. C.* *Molecules* **2016**, *21*, 1751. "Recent Advances in Olefin Metathesis" *Invited Editorial Article of a Special Issue on Olefin Metathesis*
- (50) Nega, A. D.; Pefkianakis, E. K.; Vougioukalakis, G. C.; Glynos, E.;* Sakellariou, G.* *Eur. Polym. J.* **2016**, *83*, 148-160. "Synthesis of P3HT-b-PS donor-acceptor diblock copolymer carrying pendant fullerenes at precise positions along the PS block"
- (49) Sklavounos, A. A.; Pefkianakis, E. K.; Toubanaki, D. K.; Vougioukalakis, G. C.;* Calokerinos, A. C.* *ChemPlusChem* **2016**, *81*, 913-916. "A Squaraine Derivative for Cost-Effective, Quick and Highly Sensitive Determination of Mercury and Thiols and pH Sensing"
- (48) Pefkianakis, E. K.; Manthou, V. S.; Paraskevopoulou, P.; Sakellariou, G.; Vougioukalakis, G. C.* *ChemistrySelect* **2016**, *6*, 1232-1238. "A New Family of Fullerene Derivatives Bearing Long Alkyl and Triethyleneglycol Moieties"
- (47) Pefkianakis, E. K.; Theodossiou, T. A.;* Toubanaki, D. K.; Karagouni, E.; Falaras, P.; Papadopoulos, K.; Vougioukalakis, G. C.* *Photochem. Photobiol.* **2015**, *91*, 1191-1202. "A Family of Potent Ru(II) Photosensitizers with Enhanced DNA Intercalation: Bimodal Photokillers" *Featured in the "Research of the Day" webpages of "ChemPubSoc Europe" and "Asian Chemical Editorial Society" (August 2015)*.
- (46) Pefkianakis, E. K.;* Sakellariou, G.;* Vougioukalakis, G. C.* *Curr. Org. Chem.* **2015**, *19*, 1850-1871. "Graphene Nanoribbons: Towards Graphitic Materials with Predefined Dimensions and Electronic Properties" *Invited Article (Invited Author)*.
- (45) Pefkianakis, E. K.; Sakellariou, G.; Vougioukalakis, G. C.* *ARKIVOC* **2015** (iii) 167-192. "Chemical Synthesis of Graphene Nanoribbons" *Invited Article (Invited Author) in an issue dedicated to Prof. M. Orfanopoulos*.
- (44) Manthou, V. S.; Pefkianakis, E. K.; Falaras, P.;* Vougioukalakis, G. C.* *ChemSusChem* **2015**, *8*, 588-599. "Coadsorbents: A Key Component in Efficient and Robust Dye-Sensitized Solar Cells" *Featured in the "Solar Cells" section of the "Hot Topics" list of Wiley-VCH (May – Oct. 2015)*.
- (43) Pinaka, A.; Vougioukalakis, G. C.* *Coord. Chem. Rev.* **2015**, *288*, 69-97. "Using Sustainable Metals to Carry out "Green" Transformations: Fe- and Cu-Catalyzed CO₂ Monetization"

- (42) Vougioukalakis, G. C.;* Konstantakou, M.; Pefkianakis, E. K.; Kabanakis, A. N.; Stergiopoulos, T.; Kontos, A. G.; Andreopoulou, A. K.; Kallitsis, J. K.; Falaras, P.* *Asian J. Org. Chem.* **2014**, *3*, 953-962. "A Novel Ruthenium-Based Light-Harvesting Antenna Bearing an Anthracene Moiety in Dye-Sensitized Solar Cells"
- (41) Konti, G.; Vougioukalakis, G. C.;* Bidikoudi, M.; Kontos, A. G.; Methenitis, C.; Falaras, P.* *Polyhedron* **2014**, *82*, 12-18. "A Ru(II) Molecular Antenna Bearing a Novel Bipyridine-Acrylonitrile Ligand: Synthesis and Applications in Dye Solar Cells" *Invited Article*.
- (40) Konstantakou, M.; Stergiopoulos, T.;* Likodimos, V.; Vougioukalakis, G. C.; Sygellou, L.; Kontos, A. G.; Tserepi, A.; Falaras, P.* *J. Phys. Chem. C* **2014**, *118*, 16760-16775. "Influence of Fluorine Plasma Treatment of TiO₂ Films on the Behavior of Dye Solar Cells Employing the Co(II)/(III) Redox Couple" *Invited Article. Featured in the blog "Nanochemistry" (March 2014)*.
- (39) Aluicio-Sarduy, E.; Baidak, A.; Vougioukalakis, G. C.; Keivanidis, P. E.* *J. Phys. Chem. C* **2014**, *118*, 2361-2369. "Phosphorimetric Characterization of Solution-Processed Polymeric Oxygen-Barriers for the Encapsulation of Organic Electronics" *Featured in the blog "Nanochemistry" (January 2014)*.
- (38) Vougioukalakis, G. C.* *Curr. Org. Chem.* **2013**, *17*, 2559. "Recent Developments in Olefin Metathesis" *Editorial Article of a Special Issue on Olefin Metathesis (Guest Editor)*.
- (37) Pinaka, A.; Dimotikali, D.; Chankvetadze, B.; Papadopoulos, K.;* Vougioukalakis, G. C.* *Synlett* **2013**, *24*, 2401-2406. "Catalytic Asymmetric Reduction of Prochiral Ketones with Chiral β -Amino Alcohol *N*-Boranes and their Corresponding tris-(Oxazaborolidine) Borazines" *Invited Article (Invited Author)*.
- (36) Pefkianakis, E. K.; Christodouleas, D.; Giokas, D. L.; Papadopoulos, K.;* Vougioukalakis, G. C.* *Eur. J. Inorg. Chem.* **2013**, 4628-4635. "A New Family of Ru(II) Photosensitizers with High Singlet Oxygen Quantum Yield: Synthesis, Characterization, and Evaluation"
- (35) Vougioukalakis, G. C.;* Stergiopoulos, T.; Kontos, A. G.; Pefkianakis, E. K.; Papadopoulos, K.; Falaras, P.* *Dalton Trans.* **2013**, *42*, 6582-6591. "Novel Ru(II) Sensitizers bearing an Unsymmetrical Pyridine-Quinoline Hybrid Ligand with Extended π -Conjugation: Synthesis and Application in Dye-Sensitized Solar Cells"
- (34) Pefkianakis, E. K.; Vougioukalakis, G. C.* *Organic Chem. Curr. Res.* **2013**, *2*, e118 (Open Access Journal). "Purification of Olefin Metathesis Reaction Products via Straightforward and Low-Cost Protocols" *Invited Editorial Article (Invited Author). Most viewed article of the journal (November 2013 – January 2014) - Views count from each article's publication date.*
- (33) Pinaka, A.; Vougioukalakis, G. C.;* Dimotikali, D.; Yannakopoulou, E.; Chankvetadze, B.; Papadopoulos, K.* *Chirality* **2013**, *25*, 119-125. "Green Asymmetric Synthesis: β -Amino Alcohol-Catalyzed Direct Asymmetric Aldol Reactions in Aqueous Micelles"
- (32) Vougioukalakis, G. C.* *Chem. Eur. J.* **2012**, *18*, 8868-8880. "Removing Ruthenium Residues from Olefin Metathesis Reaction Products" *Featured in the "Sustainable Chemistry" section of the "Hot Topics" list of Wiley-VCH (June 2012 – January 2014). Featured in the web site "all things METATHESIS". Featured in the "Preview" of the 29/2012 issue of Chem. Eur. J. published in the 28/2012 issue of the journal (Chem. Eur. J. 2012, 18, 8847). Featured in the blog "Tew Group Literature" (August 2012).*
- (31) Pinaka, A.; Vougioukalakis, G. C.;* Dimotikali, D.; Psyharis, V.; Papadopoulos, K.* *Synthesis* **2012**, *44*, 1057-1062. "A Convenient One-Step Synthesis of Stable β -Amino Alcohol *N*-Boranes from α -Amino Acids"
- (30) Kourti, M. E.; Vougioukalakis, G. C.; Hadjichristidis, N.; Pitsikalis, M.* *J. Polym. Sci. Part A: Polym. Chem.* **2011**, *49*, 2520-2527. "Metallocene-Mediated Cationic Ring-Opening Polymerization of 2-Methyl- and 2-Phenyl-oxazoline"

- (29) Vougioukalakis, G. C.; Philippopoulos, A. I.; Stergiopoulos, T.; Falaras, P.* *Coord. Chem. Rev.* **2011**, *255*, 2602-2621. "Contributions to the Development of Ruthenium-Based Sensitizers for Dye-Sensitized Solar Cells" *In the "top 25 hottest articles" list of Coord. Chem. Rev. (July 2011 through March 2012).*
- (28) Roubelakis, M. M.; Vougioukalakis, G. C.; Nye, L. C.; Drewello, T.; Orfanopoulos, M.* *Tetrahedron* **2010**, *66*, 9363-9369. "Exploring the Photoinduced Electron Transfer Reactivity of Aza[60]fullerene Iminium Cation"
- (27) Vougioukalakis, G. C.; Stergiopoulos, T.; Kantonis, G.; Kontos, A. G.; Papadopoulos, K.; Stublla, A.; Potvin, P. G.; Falaras, P.* *J. Photochem. Photobiol. A: Chem.* **2010**, *214*, 22-32. "Terpyridine- and 2,6-Dipyrazinylpyridine-Coordinated Ruthenium(II) Complexes: Synthesis, Characterization and Application in TiO₂-based Dye-Sensitized Solar Cells" *In the "top 25 hottest articles" lists of J. Photochem. Photobiol. A: Chem. during the first six months of its publication.*
- (26) Vougioukalakis, G. C.; Roubelakis, M. M.; Orfanopoulos, M.* *J. Org. Chem.* **2010**, *75*, 4124-4130. "Radical Reactivity of Aza[60]fullerene: Preparation of Monoadducts and Limitations"
- (25) Vougioukalakis, G. C.; Grubbs, R. H.* *Chem. Rev.* **2010**, *110*, 1746-1787. "Ruthenium-Based Heterocyclic Carbene-Coordinated Olefin Metathesis Catalysts" *In the "most read articles" list of Chem. Rev. during the first three months of its publication. In the "most cited articles" list of Chem. Rev. (April 2011 through April 2012). Featured in the web site "all things METATHESIS". Cited in the Protocols & Papers section of the Sigma-Aldrich website with regards to both Grubbs and Hoveyda-Grubbs 1st and 2nd generation catalysts.*
- (24) Vougioukalakis, G. C.;* Roubelakis, M. M.; Orfanopoulos, M.* *Chem. Soc. Rev.* **2010**, *39*, 817-844. "Open-Cage Fullerenes: Towards the Construction of Nanosized Molecular Containers"
- (23) Vougioukalakis, G. C.; Stamatopoulos, I.; Petzetakis, N.; Raptopoulou, C. P.; Psycharis, V.; Terzis, A.; Kyritsis, P.;* Pitsikalis, M.; Hadjichristidis, N.* *J. Polym. Sci. Part A: Polym. Chem.* **2009**, *47*, 5241-5250. "Controlled Vinyl-Type Polymerization of Norbornene with a Nickel(II) Diphosphinoamine Methylaluminumoxane Catalytic System"
- (22) Alberti, M. N.; Vougioukalakis, G. C.; Orfanopoulos, M.* *J. Org. Chem.* **2009**, *74*, 7274-7282. "Photosensitized Oxidations of Substituted Pyrroles: Unanticipated Radical-Derived Oxygenated Products"
- (21) Vougioukalakis, G. C.; Roubelakis, M. M.; Alberti, M. N.; Orfanopoulos, M.* *Chem. Eur. J.* **2008**, *14*, 9697-9705. "Solvent Depended Changes in the Triazolinedione-Alkene Ene Reaction Mechanism" *Cited in the peer-reviewed papers section of the Sigma-Aldrich website.*
- (20) Vougioukalakis, G. C.; Grubbs, R. H.* *Chem. Eur. J.* **2008**, *14*, 7545-7556. "Ruthenium-Based Olefin Metathesis Catalysts Coordinated with Unsymmetrical *N*-Heterocyclic Carbene Ligands: Synthesis, Structure, and Catalytic Activity"
- (19) Vougioukalakis, G. C.; Grubbs, R. H.* *J. Am. Chem. Soc.* **2008**, *130*, 2234-2245. "Synthesis and Activity of Ruthenium Olefin Metathesis Catalysts Coordinated with Thiazol-2-ylidene Ligands" *Cited in the peer-reviewed papers section of the Sigma-Aldrich website with regards to the uses of 3-chloro-2-butanone.*
- (18) Roubelakis, M. M.; Vougioukalakis, G. C.; Orfanopoulos, M.* *J. Org. Chem.* **2007**, *72*, 6526-6533. "Open-Cage Fullerene Derivatives Having 11-, 12- and 13-Membered-Ring Orifices: Chemical Transformations of the Organic Addends on the Rim of the Orifice"
- (17) Vougioukalakis, G. C.; Grubbs, R. H.* *Organometallics* **2007**, *26*, 2469-2472. "Ruthenium Olefin Metathesis Catalysts Bearing an *N*-fluoroaryl-*N*-mesityl-Substituted Unsymmetrical *N*-Heterocyclic Carbene" *In the most-accessed articles list of Organometallics in 2007.*
- (16) Lykakis, I. N.; Vougioukalakis, G. C.; Orfanopoulos, M.* *J. Org. Chem.* **2006**, *71*, 8740-8747. "Homogeneous Decatungstate-Catalyzed Photooxygenation of Tetrasubstituted Alkenes: A Deuterium Kinetic Isotope Effect Study"

- (15) Vrantza, D.; Kaloudis, P.; Leondiadis, L.; Gimisis, T.;* Vougioukalakis, G. C.; Orfanopoulos, M.; Gasparutto, D.; Cadet, J.; Encinas, S.; Paris, C.; Miranda, M. A.* *Helv. Chim. Acta* **2006**, *89*, 2371-2386. "Modification of the Guanine Base with Photolabile *N*-Hydroxypyridine-2(1H)-thione: Monomer Synthesis, Oligonucleotide Elaboration and Photochemical Studies" *In the "most accessed articles" list of Helv. Chim. Acta for the year 2006.*
- (14) Chatgialiloglu, C.;* Caminal, C.; Altieri, A.; Vougioukalakis, G. C.; Mulazzani, Q. G.; Gimisis, T.; Guerra, M.* *J. Am. Chem. Soc.* **2006**, *128*, 13796-13805. "Tautomerism in the Guanyl Radical"
- (13) Vougioukalakis, G. C.; Hatzimarinaki, M.; Lykakis, I. N.; Orfanopoulos, M.* *J. Org. Chem.* **2006**, *71*, 829-832. "Reaction of an Aza[60]fullerene Radical with Diphenylmethanes and Fluorenes: A Mechanistic Approach"
- (12) Roubelakis, M. M.; Vougioukalakis, G. C.; Angelis, Y. S.; Orfanopoulos, M.* *Org. Lett.* **2006**, *8*, 39-42. "Solvent-Dependent Changes in the Ene Reaction of RTAD with Alkenes: The Cyclopropyl Group as a Mechanistic Probe"
- (11) Vougioukalakis, G. C.; Orfanopoulos, M.* *Synlett (Account)* **2005**, 713-731. "Mechanistic Studies in Triazolinedione Ene Reactions"
- (10) Vougioukalakis, G. C.; Orfanopoulos, M.* *J. Am. Chem. Soc.* **2004**, *126*, 15956-15957. "Photoinduced Electron Transfer Reactivity of Aza[60]fullerene: Three Discrete Functionalization Pathways with a Single Substrate"
- (9) Vougioukalakis, G. C.; Prassides, K.;* Campanera, J. M.; Heggie, M. I.; Orfanopoulos, M.* *J. Org. Chem.* **2004**, *69*, 4524-4526. "Open-Cage Fullerene Derivatives with 15-Membered-Ring Orifices"
- (8) Vougioukalakis, G. C.; Angelis, Y.; Panagiotou, G.; Vakros, J.; Kordulis, C.; Lycourgiotis, A.; Orfanopoulos, M.* *Synlett* **2004**, 971-974. "[60]Fullerene Supported on Silica and γ -Alumina Sensitized Photooxidation of Olefins. Chemical Evidence for Singlet Oxygen and Electron Transfer Mechanism"
- (7) Vougioukalakis, G. C.; Prassides, K.;* Orfanopoulos, M.* *Org. Lett.* **2004**, *6*, 1245-1247. "Novel Open-Cage Fullerenes Having a 12-Membered-Ring Orifice: Removal of the Organic Addends from the Rim of the Orifice"
- (6) Vougioukalakis, G. C.; Chronakis, N.; Orfanopoulos, M.* *Org. Lett.* **2003**, *5*, 4603-4606. "Addition of Electron Rich Aromatics to Azafullerenium Carbocation. A Stepwise Electrophilic Substitution Mechanism"
- (5) Vougioukalakis, G. C.; Orfanopoulos, M.* *Tetrahedron Lett.* **2003**, *44*, 8649-8652. "Functionalization of Azafullerene C₅₉N. Radical Reactions with 9-substituted Fluorenes"
- (4) Vakros, J.; Panagiotou, G.; Kordulis, C.;* Lycourghiotis, A.; Vougioukalakis, G. C.; Angelis, Y.; Orfanopoulos, M. *Catalysis Letters* **2003**, *89*, 3-4, 269-273. "Fullerene C₆₀ supported on silica and γ -alumina catalyzed photooxidations of alkenes"
- (3) Adam, W.; Krebs, O.;* Orfanopoulos, M.; Stratakis, M.; Vougioukalakis, G. C. *J. Org. Chem.* **2003**, *68*, 2420-2425. "Intermolecular and Intramolecular Kinetic Isotope Effects (KIE) in the Nitrosoarene Ene Reaction: Experimental Evidence for Reversible Intermediate Formation"
- (2) Alberti, M. N.; Vougioukalakis, G. C.; Orfanopoulos, M.* *Tetrahedron Lett.* **2003**, *44*, 903-905. "Electronic effects in the regioselectivity of the singlet oxygen and 4-methyl-1,2,4-triazoline-3,5-dione ene reactions with isobutenylarenes"
- (1) Chronakis, N.; Vougioukalakis, G. C.; Orfanopoulos, M.* *Org. Lett.* **2002**, *4*, 945-948. "Synthesis and Self Photooxygenation of Alkenyl-Linked [60]Fullerene Derivatives. A Regioselective Ene Reaction"

According to ISI, Web of Science, the above publications have been cited 3773 times (*h* index = 24), while according to Scopus 3935 times (*h* index = 26).

PATENTS

- (4) Vougioukalakis, G. C.; Tzouras, N.; Tonis, E.; Eliopoulos, A.; Minadaki, M.; Nolan, S. *Patent Application submitted to European Patent Office EP23386128.5 (November 30 2023)*: “N-Aminoguanidine Derivatives with Anticancer Activity”
- (3) Theodossiou, T. A.; Vougioukalakis, G. C.; Berg, K.; Miranda Alonso, M. A.; Rotas, G.; Grigalavicius, M.; Ezzatpanah, S.; Raabe, T. T. H. *Patent Application submitted to European Patent Office EP22154473 (February 01 2022)*: “Endoplasmic-Reticulum targeting compounds for ROS powered chemiluminescent PDT”
- (2) Vougioukalakis, G. C.; Rotas, G.; Theodossiou, T. A.; Berg, K.; Miranda Alonso, M. A. *International Patent Application (USA, EPO, India, Australia, Canada, Japan) WO2019/243757 A1, PCT/GB2018/051744, US Patent App. 17/254,506 2021*: “Lumiblast: Mitochondria-Sustained Luminescence to Activate a Phototoxin Treating Hard to Reach Tumours Without Invasion”
- (1) Vougioukalakis, G. C.; Grubbs, R. H. *US Patent 8039566B2; European Patent Application EP2104566; Chinese Patent Application 200780050108.X; International Publication Number WO2008/064223A1*: “Olefin Metathesis Initiators Bearing Thiazol-2-ylidene Ligands”

BOOK CHAPTERS

- (4) Papastavrou, A. T.; Pefkianakis, E. K.; Roubelakis, M. M.; Vougioukalakis, G. C.* “Open-Cage Fullerenes” in *Carbon Nanomaterials Sourcebook: Graphene, Fullerenes, Nanotubes, and Nanodiamonds (Volume I)*, Sattler, K. D., Ed., Taylor & Francis (CRC Press), **2016**, p. 153-257. (Invited Author)
- (3) Vougioukalakis, G. C.* “Ruthenium-Benzylidene Catalysts” in *Olefin Metathesis - Theory and Practice*, Grela, K., Ed., John Wiley & Sons, Inc., **2014**, p. 397-416. (Invited Author)
- (2) Roubelakis, M. M.; Vougioukalakis, G. C.* “Surgery at the Molecular Level: Synthesis and Modifications of Open-Cage Fullerene Derivatives” in *Handbook of Carbon Nano Materials, Volume 3 (Medicinal and Bio-related Applications)*, D’Souza, F.; Kadish, K. M., Eds., World Scientific Publishing, **2012**, p. 233-294. (Invited Author)
- (1) Orfanopoulos, M.*; Vougioukalakis, G. C.; Stratakis, M. “Selective Formation of Allylic Hydroperoxides via Singlet Oxygen Ene Reaction” in *The Chemistry of Peroxides, Volume 2, Part 1, Patai series: The Chemistry of Functional Groups*, Rappoport, Z., Ed., Wiley-InterScience, **2006**, p. 831-898. (Invited)

TRANSLATION OF SCIENTIFIC BOOKS

- (4) Member of the five-membered editorial team, from three Greek universities, that coordinated and amended the Greek translation of the 3rd edition of the internationally-recognized book *Essential Organic Chemistry* by Paula Yurkanis Bruice, Pearson Education, **2016**.
- (3) Member of the fifteen-membered translation team from nine academic Greek institutions that translated in Greek the 6th edition of the internationally-recognized book *A Microscale Approach to Organic Laboratory Techniques* by Donald L. Pavia, Gary M. Lampman, George S. Kriz, and Randall G. Engel, Cengage Learning, **2018**.
- (2) Member of the fourteen-membered translation team from eight academic institutions in Greece and Cyprus that translated in Greek the 6th edition of the internationally-recognized book *Organic Chemistry* by Marc Loudon and Jim Parise, W. H. Freeman and Company, **2016**.
- (1) Member of the seven-membered translation team that translated in Greek the 2nd edition of the internationally-recognized book *Organic Chemistry* by Jonathan Clayden, Nick Greeves, and

Stuart Warren, Oxford University Press, **2012**. The book is published in Greek by Utopia Publishing.

LECTURE NOTES FOR COURSES TAUGHT

- **2020** Postgraduate module “Basic Principles of Organic Chemistry” of the course "Synthesis of Polymers with Well-Defined Macromolecular Architecture" in the postgraduate program “Polymer Science and Applications” (National and Kapodistrian University of Athens, Department of Chemistry) – **67 Pages**
- **2015** Undergraduate course "Contemporary Methods of Organic Synthesis" (National and Kapodistrian University of Athens, Department of Chemistry, 8th Semester) – **184 Pages**
- **2015** Undergraduate course "Materials Chemistry" (National and Kapodistrian University of Athens, Department of Chemistry, 7th Semester) – **155 Pages**
- **2010** Postgraduate module “Organic Transformations in Polymer Synthesis: Principles and Applications” of the course "Use of Polymers in Cutting-Edge Technologies" in the postgraduate program “Polymer Science and Applications” (National and Kapodistrian University of Athens, Department of Chemistry) – **83 Pages**
- **2010** Postgraduate module “Transition Metal Organometallic Catalysts in Organic Synthesis” of the postgraduate course “Organic Synthesis” (National and Kapodistrian University of Athens, Department of Chemistry) – **121 Pages**

REVIEWER FOR JOURNALS / BOOKS / BOOK CHAPTERS

- Chemical Reviews (American Chemical Society)
- Coordination Chemistry Reviews (Elsevier)
- Angewandte Chemie International Edition (Wiley-VCH Verlag GmbH & Co)
- ACS Catalysis (American Chemical Society)
- Nature Communications (Springer)
- Green Chemistry (Royal Society of Chemistry)
- ChemSusChem (Wiley-VCH Verlag GmbH & Co)
- Organic Letters (American Chemical Society)
- Advanced Synthesis and Catalysis (Wiley-VCH Verlag GmbH & Co)
- Communications Chemistry (Nature Research)
- Chemistry - A European Journal (Wiley-VCH Verlag GmbH & Co)
- ACS Sustainable Chemistry and Engineering (American Chemical Society)
- Organic Chemistry Frontiers (Royal Society of Chemistry)
- The Journal of Organic Chemistry (American Chemical Society)
- ChemCatChem (Wiley-VCH Verlag GmbH & Co)
- Organometallics (American Chemical Society)
- Journal of Catalysis (Elsevier)
- Inorganic Chemistry (American Chemical Society)
- Dalton Transactions (Royal Society of Chemistry)

- RSC Advances (Royal Society of Chemistry)
- Inorganic Chemistry Communications (Elsevier)
- Journal of CO₂ Utilization (Elsevier)
- Chemical Engineering Journal (Elsevier)
- ChemistryOpen (Wiley-VCH Verlag GmbH & Co)
- Chemistry - An Asian Journal (Wiley-VCH Verlag GmbH & Co)
- Organic & Biomolecular Chemistry (Royal Society of Chemistry)
- Applied Organometallic Chemistry (Wiley-VCH Verlag GmbH & Co)
- European Journal of Organic Chemistry (Wiley-VCH Verlag GmbH & Co)
- European Journal of Inorganic Chemistry (Wiley-VCH Verlag GmbH & Co)
- New Journal of Chemistry (Royal Society of Chemistry)
- Catalysis Communications (Elsevier)
- Polymer (Elsevier)
- Dyes and Pigments (Elsevier)
- Materials Today Chemistry (Elsevier)
- Macromolecular Rapid Communications (Wiley-VCH Verlag GmbH & Co)
- Polymer Chemistry (Royal Society of Chemistry)
- ChemistrySelect (Wiley-VCH Verlag GmbH & Co)
- Journal of Inorganic Biochemistry (Elsevier)
- Materials Chemistry and Physics (Elsevier)
- Energy Technology (Wiley-VCH Verlag GmbH & Co)
- Photochemistry and Photobiology (Wiley-VCH Verlag GmbH & Co)
- PLOS One (PLOS)
- Synlett (Thieme)
- Tetrahedron Green Chem (Elsevier)
- Chinese Chemistry Letters (Elsevier)
- Industrial & Engineering Chemistry Research (American Chemical Society)
- Materials (MDPI, Basel, Switzerland)
- Organic Process Research and Development (American Chemical Society)
- The Journal of Physical Chemistry (American Chemical Society)
- European Polymer Journal (Elsevier)
- Molecules (MDPI, Basel, Switzerland)
- Photochemical & Photobiological Sciences (Royal Society of Chemistry)
- Journal of Organometallic Chemistry (Elsevier)
- Pure and Applied Chemistry (De Gruyter)
- Applied Sciences (MDPI, Basel, Switzerland)
- Biotechnology Progress (Wiley-VCH Verlag GmbH & Co)
- International Journal of Molecular Sciences (MDPI, Basel, Switzerland)
- Processes (MDPI, Basel, Switzerland)

- Research on Chemical Intermediates (Springer)
- Journal of the Brazilian Chemical Society (Brazilian Chemical Society)
- Current Bioactive Compounds (Bentham Science)
- The Scientific World JOURNAL (Hindawi Publishing Corporation)
- Chimica OGGI / Chemistry TODAY (tekno scienze publisher)
- Catalysts (MDPI, Basel, Switzerland)
- Crystals (MDPI, Basel, Switzerland)
- Energies (MDPI, Basel, Switzerland)
- Applied Sciences (MDPI, Basel, Switzerland)
- Nanomaterials (MDPI, Basel, Switzerland)
- Open Journal of Advanced Materials Research (Sciknow Publications Ltd.)
- Mediterranean Journal of Chemistry (Astucia Group)
- Iranian Journal of Chemistry and Chemical Engineering (IRDICI-ACECR)
- The Journal of Visualized Experiments (MyJove Corp.)
- Books in Wiley-Blackwell and CRC Press (Taylor and Francis Group)
- Book chapters in Wiley-InterScience

EDITORIAL ACTIVITY

- **Guest Editor in a Special Issue on Sustainable Transition Metal Catalysis published in the Journal Molecules (Issue Closed in January 2021 – Co-Editor: Prof. Andreas A. Danopoulos)**
This editorial activity included: i) inviting leading scientists in the field to contribute to this special issue with feature articles; ii) overseeing the peer-review and revisions process (responsible for the pre-peer review check and final publication decision for all submissions); and iii) preparing the editorial of the special issue.
- **Member of the Editorial Board of the International Scientific Journal “Molecules” (Sept. 2019 – today)**
- **Member of the Editorial Board of the International Scientific Journal “Current Organocatalysis” (March 2019 – today)**
- **Member of the Editorial Board of the International Scientific Journal “Journal of Nanotechnology in Diagnosis and Treatment” (May 2018 – today)**
- **Member of the Editorial Board of the International Scientific Journal “Current Catalysis” (Sept. 2017 – today)**
- **Guest Editor in a Special Issue on Olefin Metathesis published in the Journal Molecules (Issue Closed in November 2015)**
This editorial activity included: i) inviting leading scientists in the field to contribute to this special issue with feature articles; ii) overseeing the peer-review and revisions process (responsible for the pre-peer review check and final publication decision for all submissions); and iii) preparing the editorial of the special issue.
- **Guest Editor in a Hot Topic Thematic Issue on Olefin Metathesis published in the Journal Current Organic Chemistry (Volume 17, Issue 22, November 2013)**
This editorial activity included: i) inviting leading scientists in the field to contribute to this special issue; ii) inviting other experts in the field to act as referees; iii) management of the peer-review and revisions process; and iv) preparing the editorial of the special issue.
- **Member of the Editorial Board of “The Scientific World JOURNAL” (Aug. 2011 – June 2017)**

INVITED LECTURES

- (25) “Creating Complexity via Sustainable Catalytic Transformations: Multicomponent Reactions, Cross-Couplings, and CO₂ Monetization” University of Sussex, Department of Chemistry, Brighton, UK (July 12, **2023**).
- (24) “Creating Complexity via Sustainable Catalytic Transformations: Multicomponent Reactions, Cross-Couplings, and CO₂ Monetization” University of Ljubljana, Department of Chemistry, Ljubljana, Slovenia (February 1, **2023**).
- (23) “Creating Complexity via Sustainable Catalytic Transformations: Multicomponent Reactions, Cross-Couplings, and CO₂ Monetization” University of Crete, Department of Chemistry, Greece – Online Presentation (December 11, **2020**).
- (22) “Organic Transformations Using Sustainable Metal Catalysis and Other Fairy Tales” Free University of Berlin, Institute for Chemistry and Biochemistry, Berlin, Germany (February 7, **2020**).
- (21) “Sustainable Catalysis in Useful Organic Transformations – CHAOS Contributions” University of Malta, Department of Chemistry, Final CHAOS Meeting, Valletta, Malta (October 25, **2019**).
- (20) “Sustainable Catalysis in Useful Organic Transformations” Stockholm University, Department of Organic Chemistry, Stockholm, Sweden (June 28, **2019**).
- (19) “Sustainable Catalysis in Useful Organic Transformations” National Hellenic Research Foundation, Institute of Biology, Medicinal Chemistry & Biotechnology, Athens, Greece (October 18, **2017**).
- (18) “Synthesis and Study of Photoactive Molecules for Energy Conversion, Chemical Sensors, and Biological Applications” 22nd Greek National Conference on Chemistry, Thessaloniki, Greece Extended/Session-Initiating 30 min Talk (December 3, **2016**).
- (17) “Hitting Many Birds with One Stone: Photoactive Molecules for Energy Conversion, Chemosensors, and Biologically-Related Applications” 2016 EuCheMS Young Investigators Workshop, Islantilla, Spain (September 17, **2016**).
- (16) “Fullerene Chemistry, Photosensitization, and Other Fairy Tales” Symposium in Honor of Prof. M. Orfanopoulos on the Occasion of Becoming Professor Emeritus, University of Crete, Department of Chemistry, Heraklion, Greece (February 5, **2016**).
- (15) “Hitting Two Birds with One Stone: Ruthenium Sensitizers for Energy Conversion and Biologically-Related Applications” National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece (December 4, **2015**).
- (14) “Novel Molecular Photosensitizers for Dye-Sensitized Solar Cells and Photodynamic Therapy Applications” 3rd International Conference on Organic Chemistry, Tbilisi, Georgia (September 26, **2014**).
- (13) “2-Amino Alcohols and their Aminoborane Derivatives in Asymmetric Organocatalysis” 18th European Symposium on Organic Chemistry - Young Investigators Workshop, Marseille, France (July 5, **2013**).
- (12) “A Quick Tour in Fullerene Chemistry, Olefin Metathesis, and Dye-Sensitized Solar Cells” Demokritos National Centre for Scientific Research - Distinguished Lectures Series, Athens, Greece (June 27, **2013**).
- (11) “Fullerenes, Polymers, Dye-Sensitized Solar Cells and Other Fairy Tales” Italian Institute of Technology, Centre for Nanoscience and Technology, Milan, Italy (November 14, **2011**).

- (10) “Fullerene Chemistry, Olefin Metathesis and Other Fairy Tales” National and Kapodistrian University of Athens, Department of Chemistry, Athens, Greece (March 3, 2011).
- (9) “From Fullerene Chemistry to Olefin Metathesis” National and Kapodistrian University of Athens, Department of Chemistry, Athens, Greece (June 2, 2010).
- (8) “From Fullerene Chemistry to Olefin Metathesis” Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece (March 12, 2010).
- (7) “Fullerene Chemistry, Olefin Metathesis and Other Fairy Tales” University of Cyprus, Department of Chemistry, Nicosia, Cyprus (December 2, 2009).
- (6) “From Fullerene Chemistry to Olefin Metathesis” University of Patras, Department of Chemistry, Rio, Greece (November 26, 2009).
- (5) “Research in Greece and Abroad: Examples – Differences and Similarities – Challenges” National and Kapodistrian University of Athens, Department of Chemistry, Athens, Greece (March 27, 2009).
- (4) “From Fullerene Chemistry to Olefin Metathesis: A Fascinating Trip” National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry, Athens, Greece (May 13, 2008).
- (3) “From Fullerene Chemistry to Olefin Metathesis: A Fascinating Trip” Demokritos National Centre for Scientific Research, Institute of Physical Chemistry, Athens, Greece (February 29, 2008).
- (2) “Functionalization and Mechanistic Studies on Reactions of Fullerenes and Azafullerenes. Synthesis and Catalytic Activity of Ruthenium-Based Olefin Metathesis Initiators” University of Crete, Materials Science and Technology Department, Heraklion, Greece (June 8, 2007).
- (1) “Functionalization and Mechanistic Studies on Reactions of Fullerenes and Azafullerenes. Synthesis and Catalytic Activity of Ruthenium-Based Olefin Metathesis Initiators” Michigan State University, Chemistry Department, East Lansing, Michigan, USA (March 20, 2007).

ORGANIZATION OF CONFERENCES / MEETINGS / SCHOOLS

- **Jan. 2023** Co-organizer and host of an online Scientific Symposium entitled “Photosensitizer-based theranostics for cancer with focus on glioblastoma” (10 January 2023) in the context of the EU H2020 FET open project LUIBLAST. Lecturers of high-esteem were recruited from many countries in Europe (Greece, UK, France, Spain, Germany, Norway, and Portugal) as well as USA (75 registered attendees).
- **July 2022** Organized an online, open to the public dissemination event (66 participants from at least 9 different research institutions / universities in Greece and abroad), concerning SUSTAIN research project, with talks from Professors S. P. Nolan (Ghent University, Belgium), B. Sarkar (Stuttgart University, Germany), and X. Ribas (Girona University, Spain), as well as from the Vougioukalakis Group members. Also, organized a “Project Open Day” with physical presence, at the Department of Chemistry of the National and Kapodistrian University of Athens, Greece, during which many interested people (more than 35) visited the Vougioukalakis Group laboratories and were thoroughly informed about the project SUSTAIN and its goals (July 4, 2022).
- **Oct. 2019** Local Organizing Committee Member of the "6th Green Chemistry and Sustainable Development Panhellenic Symposium with International Participation" carried out at the Department of Chemistry of the National and Kapodistrian University of Athens, Greece (October 18-20, 2019).
- **Sept. 2019** Coordinator / Chair of the "2nd CHAOS Training School" held in Athens, Greece (September 10-13, 2019). This was one of the two Training Schools organized in the framework of COST European Network CHAOS (C-H Activation in Organic Synthesis): 10 tutors (including Prof. L. Ackerman – Univ. Göttingen, Prof. S. P. Nolan – Ghent Univ., Prof. Hashmi – Univ. Heidelberg, Prof. D. Bourissou – Paul Sabatier Univ., Prof. P. Renaud – Univ. Berne, and Prof. D.

Pappo – Ben-Gurion Univ.) and 83 post-doctoral researchers and Ph.D. and M.Sc. students working in 21 European countries. CHAOS was one of the largest COST networks in Europe, with 32 participating countries. Total School funding: 34,440 €.

- **July 2019** Member of the Organizing Committee of the "2nd World Conference on Analytical and Bioanalytical Chemistry" held in Las Vegas, USA (11-12 July 2019).
- **June 2019** Member of the Technical Program Committee of the "5th International Conference on Medicine Sciences and Bioengineering" held in Suzhou, China (21-22 June 2019).
- **June 2018** Member of the Technical Program Committee of the "2018 International Conference on Medicine Sciences and Bioengineering" held in Suzhou, China (22-24 June 2018).
- **Nov. 2016** Member of the four-membered Organizing Committee of the "2016 Athens International Catalysis Symposium" carried out at the Department of Chemistry of the National and Kapodistrian University of Athens (3-4 November 2016).
- **Jan. 2014** Organizer and Lead Tutor of the five-days school "Principles of Chemical Synthesis" of the Marie Curie Initial Training Network DESTINY - Dye sensitized solar cells with enhanced stability, carried out at the National Centre for Scientific Research "Demokritos" (7-11 January 2014).
- **Jan. 2014** Co-organizer of the first Annual Meeting (7-11 January 2014) and the one-day school "Solar Cell Fabrication" (10 January 2014) of the Marie Curie Initial Training Network DESTINY - Dye sensitized solar cells with enhanced stability, carried out at the National Centre for Scientific Research "Demokritos".
- **Undergraduate student's guidance/tutoring for their Chemistry Day presentations at the Department of Chemistry of the University of Athens:** May 2015 (1 student); April 2016 (2 students); April 2018 (2 students).
- **Scientists that have visited our research group for research collaboration and/or lectures:** Prof. P. E. Keivanidis (Cyprus Technical University), Prof. Steven P. Nolan (Ghent University), Prof. Alexandros Koumbis (Aristotle University of Thessaloniki), Prof. Laszlo Kollar (University of Pecs), Prof. Milton R. Smith (Michigan State University), Dr. Christos Chochos (Advent Technologies SA), Dr. Maria Vasilopoulou (National Centre of Scientific Research "Demokritos"), Dr. J. Knight (Knight Scientific), Dr. N. Tagmatarchis (National Hellenic Research Foundation), Prof. J. K. Kallitsis, Dr. A. K. Andreopoulou, Dr. C. Anastasopoulos (University of Patras), Dr. M. Kandyla (National Hellenic Research Foundation), Prof. P. E. Keivanidis (Cyprus University of Technology), Prof. T. D. Anthopoulos (Imperial College London), Dr. T. A. Theodossiou (Oslo University Hospital), Prof. M. Girtan (Angers University), Dr. E. Karagouni (Pasteur Institute - Greece), Dr. P. E. Keivanidis (Italian Institute of Technology), Dr. Christos Liolios (Institute of Pharmaceutical Science and Technology), Prof. A. Ahmedova (University of Sofia).

SHORT-TERM VISITS TO OTHER INSTITUTIONS / VISITING PROFESSOR

- **University of Sussex, Department of Chemistry:** July 11 to July 17 2023 in order to discuss and establish new research collaborations with research groups from the University of Sussex.
- **University of Ljubljana, Department of Chemistry:** January 30 to February 02 2023 in order to discuss and establish new research collaborations with research groups from the University of Ljubljana and the Slovenian National Institute of Chemistry.
- **Free University of Berlin, Institute of Chemistry and Biochemistry:** February 6 to February 10 2020 in the framework of a bilateral IKYDA research program as the PI of the Greek research group, in order to capitalize on the program's results and open new research directions.
- **Stockholm University, Department of Organic Chemistry:** June 21 to June 30 2018 in the framework of Erasmus+ teaching staff mobility program, among others towards establishing new bilateral research collaborations.

- **Free University of Berlin, Institute of Chemistry and Biochemistry:** July 11 to July 22 2018 in the framework of a bilateral IKYDA research program as the PI of the Greek research group, in order to capitalize on the program's results and open new research directions.
- **Polytechnic University of Valencia, Institute of Chemical Technology:** July 2 to July 4 2018 in the framework of European project LUMIBLAST, as the PI of the Greek research group, in order to capitalize on the project's results and open new research directions.
- **Oslo University Hospital, Department of Radiation Biology:** October 18 to October 21 2016 in order to design the launch of European research project LUMIBLAST, as the PI of the Greek research group.

SCIENTIFIC MEMBERSHIPS

- Founding Member of the Marie Curie Alumni Association Greek Chapter (International non-profit organization working under the auspice of European Commission)
- Member of the Association of Greek Chemists
- Member of the American Chemical Society

DECISION-MAKING POSITIONS / ADMINISTRATIVE WORK

- **Dec. 2023:** Member of two five-membered committees of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of two patents from the National and Kapodistrian University of Athens.
- **Oct. 2023 – today:** Member of the Technical Council of the National and Kapodistrian University of Athens, advising the Rector and the Board of Directors of the National and Kapodistrian University of Athens for all issues related to buildings, infrastructures, renovations, maintenances, safety at work, etc.
- **Oct. 2023 - today:** Member of a committee appointed by the General Assembly of the Department of Chemistry of the National and Kapodistrian University of Athens to organize the exams for the postgraduate fellowships of the National and Kapodistrian University of Athens in the subject of Chemistry.
- **Oct. 2023 - today:** Member of a three-membered committee, appointed by the General Assembly of the Department of Chemistry of the National and Kapodistrian University of Athens, to advise with regards to and reform the Departmental regulation of Doctoral studies and Post-Doctoral research.
- **Sept. 2023:** Head of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of one patent from the National and Kapodistrian University of Athens.
- **Sept. 2023 – today:** Member of the Steering Committee of the Postgraduate Program “Organic Synthesis and Applications in the Chemical Industry” of the Chemistry Department of National and Kapodistrian University of Athens.
- **Sept. 2023:** Member of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of one patent from the National and Kapodistrian University of Athens.
- **Sept. 2023 – today:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **June 2023:** Member of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship

Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of a patent from the National and Kapodistrian University of Athens.

- **Dec. 2022:** Member of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of a patent from the National and Kapodistrian University of Athens.
- **July 2022 – today:** Member of the seven-membered Steering Committee of the Technology Transfer Office (TTO) of the National and Kapodistrian University of Athens (Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office).
- **Aug. 2022 – today:** Member of the Steering Committee of the Postgraduate Program “Catalysis and its Applications in the Industry” of the Chemistry Department of National and Kapodistrian University of Athens.
- **Apr. 2022:** Member of two five-membered committees of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of two patents from the National and Kapodistrian University of Athens.
- **Dec. 2021:** Member of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of two patents from the National and Kapodistrian University of Athens.
- **Dec. 2021 – Sept. 2023:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **July 2021 - today:** Member of a three-membered committee, appointed by the General Assembly of the Department of Chemistry of the National and Kapodistrian University of Athens, to advise with regards to the improvement of the department’s position in the various international departmental rankings.
- **April 2021:** Member of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of a patent from the National and Kapodistrian University of Athens.
- **Dec. 2020 – today:** Departmental Coordinator of the Erasmus+ Mobility Programme between the Chemistry Department of the National and Kapodistrian University of Athens, Greece and the Department of Chemistry of Stuttgart University, Germany.
- **Nov. 2020:** Head of a five-membered committee of experts, appointed by the Special Accounts of Research Grants and the Archimedes Center for Research, Innovation, and Entrepreneurship Technology Transfer Office of the National and Kapodistrian University of Athens, to advise with regards to the funding of a patent from the National and Kapodistrian University of Athens.
- **Nov. 2020 – Dec. 2021:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **Sept. 2020:** Member of a committee appointed by the National and Kapodistrian University of Athens for the procurement and purchase of two buildings with total projected cost 13,170,000 Euros.
- **Sept. 2020 – today:** Member of the Steering Committee of the Postgraduate Program “Polymer Science and Applications in Industry” of the Chemistry Department of National and Kapodistrian University of Athens.
- **Sept. 2020 – today:** Member of the Steering Committee of the Postgraduate Program “Food Chemistry” of the Chemistry Department of National and Kapodistrian University of Athens.
- **Jan. 2020 – today:** Member of the Center of Excellence of the National and Kapodistrian University of Athens “Drug Design and Discovery”. The Centers of Excellence of the National and Kapodistrian University of Athens aim at coordinating the efforts of the university’s Research

Teams, in research areas of outmost societal importance, towards attracting competitive funding and assisting/consulting the Greek state.

- **Jan. 2020 – today:** Member of the Center of Excellence of the National and Kapodistrian University of Athens “Renewable Energy”. The Centers of Excellence of the National and Kapodistrian University of Athens aim at coordinating the efforts of the university’s Research Teams, in research areas of outmost societal importance, towards attracting competitive funding and assisting/consulting the Greek state.
- **Dec. 2019 - today:** Member of a two-membered committee, appointed by the Senate of the National and Kapodistrian University of Athens, to organize the exams for the undergraduate fellowships of the National and Kapodistrian University of Athens in the subject of Chemistry.
- **Oct. 2019 – today:** Member of the Committee of International Relations and European Educational Programs of the National and Kapodistrian University of Athens.
- **Nov. 2019 – Nov. 2020:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **Nov. 2019 – Oct. 2021:** Member of the Safety and Hygiene Committee of the Chemistry Department of National and Kapodistrian University of Athens.
- **Oct. 2018 – Oct. 2019:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **June 2018 – Mar. 2020:** Inclusiveness Target Countries Conference Grants Committee Member, COST Action CA15106 (C-H Activation in Organic Synthesis – CHAOS).
- **Nov. 2017 – Oct. 2018:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **Sept. 2016 – Nov. 2017:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **Dec. 2015 – Sept. 2016:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **Nov. 2015 – today:** Departmental Coordinator of the Erasmus+ Mobility Programme between the Chemistry Department of the National and Kapodistrian University of Athens, Greece and the Department of Organic Chemistry of Stockholm University, Sweden.
- **Nov. 2015 – today:** Departmental Coordinator of the Erasmus+ Mobility Programme between the Chemistry Department of the National and Kapodistrian University of Athens, Greece and the Faculty of Chemistry and Pharmacy of Sofia University, Bulgaria.
- **Sept. 2014 – Dec. 2015:** Elected member of the General Assembly of the Chemistry Department of National and Kapodistrian University of Athens.
- **2014:** Member of a committee for the establishment of a new undergraduate course in the Chemistry Department of the National and Kapodistrian University of Athens, entitled “Materials Chemistry”, as representative of the Laboratory of Organic Chemistry.

ELECTORATE MEMBER/REFEREE FOR FACULTY POSITIONS

- **Nov. 2023:** Promotion to the rank of Associate Professor, Subject: Synthesis and Characterization of Functional Organic Molecules, University of Crete, Greece
- **Feb. 2023:** Promotion to the rank of Associate Professor, Subject: Organic Chemistry, Al-Balqa Applied University, Jordan (Referee – Invited)
- **Feb. 2023:** New Assistant Researcher position (Grade C), Subject: Synthesis of Bioinspired Materials Focusing on Energy Applications, National Hellenic Research Foundation, Greece
- **Jul. 2022:** New Tenure-Eligible Lecturer, Subject: Organic Chemistry, University of Barcelona, Spain (Substitute Member – Invited)

- **Jul. 2022:** New Assistant Professor position, Subject: Organic Chemistry, University of Patras, Greece
- **Jan. 2022:** Promotion to the rank of Associate Professor, Subject: Organic Chemistry, University of Patras, Greece
- **Dec. 2021:** Promotion to the rank of Associate Professor, Subject: Military Applications of Chemistry, Hellenic Army Academy, Greece

PRESENTATIONS IN CONFERENCES / MEETINGS / SCHOOLS

- (108) Tzouras, N. V.; Gauthier, R.; Paquin, J. F.; Vougioukalakis, G. C.; Nolan, S. P. "HYDROGEN BONDING-CONTROLLED GOLD CATALYSIS: THE EFFECTS OF HYDROFLUORIC ACID AND HEXAFLUOROISOPROPANOL" 23rd International Symposium on Fluorine Chemistry – 9th International Symposium on Fluorous Technologies, Quebec, Canada, July **2023** (*Oral Presentation*).
- (107) Vougioukalakis, G. C. "Vougioukalakis Research Group: Advanced Materials - Organic Synthesis - Catalysis" Understanding interaction light – biological surfaces: possibility for new electronic materials and devices (PhoBioS) COST Action CA21159 Meeting, Brussels, Belgium, February **2023** (*Oral Presentation*).
- (106) Tzouras, N. V.; Vougioukalakis, G. C.; Nolan, S. P. "Construction of M-C and M-N bonds: "Golden" synthons, materials, pre-catalysts and mechanistic probes" CRF-ChemCYS 2022, Blankeberge, Belgium, October **2022** (*Oral Presentation*).
- (105) Tzouras, N. V.; Vougioukalakis, G. C.; Nolan, S. P. "'GOLDEN" SYNTHONS, PRE-CATALYSTS AND MECHANISTIC PROBES" 29th International Conference on Organometallic Chemistry, Prague, Czech Republic, July **2022** (*Oral Presentation*).
- (104) Zorba, L. P.; Vougioukalakis, G. C. "KA²-based, one pot synthesis of thiazolidin-2-ylideneamines" 17th Belgian Organic Synthesis Symposium, Namur, Belgium, July **2022** (*Poster Presentation*).
- (103) Kaplanai, E.; Tonis, E.; Drymona, M.; Zagranyski, Y.; Vougioukalakis, G. C. "A DOMINO O-H/C-H ACTIVATION TRANSFORMATION TOWARDS THE SYNTHESIS OF OXYGEN-DOPED POLYCYCLIC AROMATIC MOLECULES" 17th Belgian Organic Synthesis Symposium, Namur, Belgium, July **2022** (*Poster Presentation*).
- (102) Ligieli, I.; Zois, K. P.; Vougioukalakis, G. C.; Danopoulos, A. "Synthesis of Co^{II} and Fe^{II} Complexes Coordinated with Pincer Ligands bearing NHC Donors and Their Use in Ketone Hydrogenation Reactions" Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July **2022** (*Oral Presentation*).
- (101) Mavroeidi, P.; Georgiou, N.; Vougioukalakis, G. C.; Mavromoustakos, T. "In silico prevention of propargylamine substrate toxicity in their use as monoamino-oxidase inhibitors" Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July **2022** (*Poster Presentation*).
- (100) Drymona, M.; Kaplanai, E.; Georganakis, D.; Vougioukalakis, G. C. "Towards sustainable homoallylic alcohols isomerization/oxidation with applications in fine chemicals industry" Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July **2022** (*Poster Presentation*).
- (99) Giannopoulos, D.; Zorba, L.; Zisis, C.; Pitsikalas, M.; Vougioukalakis, G. C. "Development of a novel, step-growth polymerization strategy, based on a multi-component coupling reaction" Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July **2022** (*Oral Presentation*).

- (98) Frousiou, E.; Tonis, E.; Rotas, G.; Vougioukalakis, G. C. “Tailor-Designed Small Molecules for the Modification of Aramid Materials Kevlar and Nomex” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Poster Presentation*).
- (97) Danopoulou, M. A.; Zorba, L.; Cobelic, B.; Turel, I.; Vougioukalakis, G. C. “Catalytic Activity Evaluation of Zn(II)-Hydrazone Complexes in the KA2 Coupling Reaction” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Poster Presentation*).
- (96) Kaplanai, E.; Tonis, E.; Drymona, M.; Zagranyski, Y.; Vougioukalakis, G. C. “A new, domino O-H/C-H activation reaction towards the synthesis of oxygen-doped polyaromatic molecules with potential technological and biological applications” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Oral Presentation*).
- (95) Zorba, L. P.; Vougioukalakis, G. C. “One pot synthesis of thiazolidin-2-ylideneamines” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Oral Presentation*).
- (94) Mai, M.; Rotas, G.; Sarkar, B.; Vougioukalakis, G. C. “Synthesis and Characterization of a New Family of Fullerene Derivatives” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Poster Presentation*).
- (93) Chalkidis, S. G.; Vougioukalakis, G. C. “Straightforward Synthesis of 4,4-Disubstituted-1,3-Thiazolidine-2-Thiones from Quaternary Propargylamines and Carbon Disulfide” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Poster Presentation*).
- (92) Tonis, E.; Vougioukalakis, G. C. “A Straightforward Protocol for the Synthesis of 4-Alkylidene-2-Thione-1,3-Oxathiolanes” Athens Conference on Advances in Chemistry 2022, Athens, Greece, June-July 2022 (*Poster Presentation*).
- (91) Vougioukalakis, G. C. “Sustainable Catalysis in Useful Organic Transformations: Multicomponent Reactions, Cross-Couplings, and CO₂ Activation” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (90) Mavroeidi, P.; Syriopoulou, A.; Georgiou, N.; Tzouras, N.; Neofotistos, S.; Vougioukalakis, G. C.; Durdagi, S.; Mavromoustakos, T. “Searching for novel synthetic MAO inhibitors” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (89) Sideri, I. K.; Heliopoulos, N. S.; Zikos, T.; Siamidis, D.; Vougioukalakis, G. C.; Tagmatarchis, N. “Innovative Industrial Materials with Advanced Multifunctionality, Prolonged Lifetime and Improved Performance Against Environmental Conditions for Versatile Protective Equipment” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (88) Tonis, E.; Stein, F.; Stamatopoulos, I. K.; Stubbe, J.; Zarkadoulas, A.; Sarkar, B.; Vougioukalakis, G. C. “A Pd-Free Sonogashira Coupling Protocol Employing an In-Situ-Prepared Copper/Chelating 1,2,3-Triazolylidene System” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (87) Chalkidis, S. G.; Vougioukalakis, G. C. “A novel, copper(I)-NHC well-defined catalytic system for the multicomponent synthesis of quaternary propargylamines” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (86) Kaplanai, E.; Tonis, E.; Zagranyski, Y.; Vougioukalakis, G. C. “A novel, domino O-H/C-H activation reaction towards the synthesis of oxygen-doped polyaromatic molecules with technological applications” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March 2021 (*Oral Presentation*).
- (85) Zorba, L. P.; Vougioukalakis, G. C. “Zinc Iodide Catalyzed Allenylation of Terminal Alkynes towards Trisubstituted Allenes under Conventional or Microwave Irradiation Conditions” Athens

Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March **2021** (*Oral Presentation*).

- (84) Tzouras, N. V.; Zarkadoulas, A.; Vougioukalakis, G. C. “The KA2 coupling under sustainable metal catalysis: Assembly of tetrasubstituted propargylamines and theoretical study of the manganese-catalyzed version” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March **2021** (*Oral Presentation*).
- (83) Rotas, G.; Pantelia, A.; Frousiou, E.; Tonis, E.; Chalkidis, S. G.; Vougioukalakis, G. C. “Small Molecules for the Preparation of Modified Aramid Fibers with Improved Properties” Athens Conference on Advances in Chemistry 2020, Online conference due to the COVID-19 outbreak, March **2021** (*Oral Presentation*).
- (82) Mavroeidi, P.; Syriopoulou, A.; Georgiou, N.; Tzouras, N.; Neofotistos, S.; Vougioukalakis, G. C.; Durdagi, S.; Mavromoustakos, T. “Searching for Targets Against Neurodegenerative Diseases” 18th Hellenic Symposium on Medicinal Chemistry, Online symposium due to the COVID-19 outbreak, February **2021** (*Poster Presentation*).
- (81) Tzouras, N. V.; Zarkadoulas, A.; Vougioukalakis, G. C. “The KA2 Coupling Under Zinc or Manganese Catalysis: Sustainable Assembly of Tetrasubstituted Propargylamines and Theoretical Study of Key Mechanistic Steps” 5th International Conference on Catalysis and Chemical Engineering, Virtual conference due to the COVID-19 outbreak, February **2021** (*Oral Presentation*).
- (80) Vougioukalakis, G. C. “2nd CHAOS Summer School: Athens, 10-13 September 2019” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Department of Chemistry, University of Malta, Valletta, Malta, October **2019** (*Oral Presentation*).
- (79) Zorba, L.; Tzouras, N. V.; Vougioukalakis, G. C. “A Sustainable, Zn-Catalyzed Domino Reaction for the Synthesis of Trisubstituted Allenes in a Single Step” 6th Green Chemistry and Sustainable Development Panhellenic Symposium with International Participation, Athens, Greece, October **2019** (*Oral Presentation*).
- (78) Tzouras, N. V.; Zarkadoulas, A.; Vougioukalakis, G. C. “Towards Making the KA² Coupling Part of “Click Chemistry”: A Single Metal Enables the Expedient and Sustainable Assembly of Tetrasubstituted Propargylamines and Trisubstituted Allenes” 6th Green Chemistry and Sustainable Development Panhellenic Symposium with International Participation, Athens, Greece, October **2019** (*Poster Presentation*).
- (77) Chalkidis, S. G.; Tonis, E. Z.; Vougioukalakis, G. C. “A Sustainable Method for the KA² Reaction: Developing a Novel, Copper-NHC Catalytic System for the Synthesis of Tetrasubstituted Propargylamines” 6th Green Chemistry and Sustainable Development Panhellenic Symposium with International Participation, Athens, Greece, October **2019** (*Poster Presentation*).
- (76) Zarkadoulas, A.; Stamatopoulos, I. K.; Stubbe, J.; Stein, F.; Sarkar, B.; Vougioukalakis, G. C. “A User-Friendly Cu-Triazolylidene Catalytic Protocol for the Pd-Free Sonogashira Coupling Reaction” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 2nd Training School, Athens, Greece, September **2019** (*Poster Presentation*).
- (75) Neofotistos, S. P.; Vougioukalakis, G. C. “Sustainable, Mn-Catalyzed Synthesis of Tetrasubstituted Propargylamines via the KA² Multicomponent Reaction” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 2nd Training School, Athens, Greece, September **2019** (*Poster Presentation*).
- (74) Zorba, L.; Vougioukalakis, G. C. “A Sustainable, Zn-Catalyzed Domino Reaction for the Synthesis of Trisubstituted Allenes in a Single Step” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 2nd Training School, Athens, Greece, September **2019** (*Poster Presentation*).

- (73) Vougioukalakis, G. C. “2nd CHAOS Summer School: Athens, 10-13 September 2019” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Agia Napa, Cyprus, April **2019** (*Oral Presentation*).
- (72) Stamatopoulos, I. K.; Chalkidis, S.; Stubbe, J.; Sarkar, B.; Vougioukalakis, G. C. “NHC-Coordinated Ni-, Co- and Ru-Based Complexes: Application in Electrocatalytic C-C and C-Heteroatom Bond Forming Reactions” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Agia Napa, Cyprus, April **2019** (*Poster Presentation*).
- (71) Neofotistos, S. P.; Tonis, S.; Tzouras, N. V.; Vougioukalakis, G. C. “Sustainable Synthesis of Tetrasubstituted Propargylamines Employing a Novel, Mn-Based Catalytic System” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Agia Napa, Cyprus, April **2019** (*Poster Presentation*).
- (70) Vougioukalakis, G. C. “Sustainable Catalysis in Useful Organic Transformations” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Oral Presentation*).
- (69) Pantelia, A.; Garcia-Simon, C.; Rotas, G.; Pefkianakis, E. K.; Ribas, X.; Vougioukalakis, G. C. “Immobilizing Fullerene Derivatives in Organic Nanocages” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Poster Presentation*) – **1st Poster Award Amongst 133 Posters**.
- (68) Papastavrou, A. T.; Pauze, M.; Gomez-Bengoa, E.; Vougioukalakis, G. C. “A Novel Organocatalytic CO₂ Monetization Approach Towards Propargylic Esters” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Poster Presentation*).
- (67) Kotroni, E.; Rotas, G.; Pedersen, S. K.; Ogilby, P. R.; Vougioukalakis, G. C. “Synthesis of a Novel, Non-Symmetrical, Fluorinated Fluorescein Analog” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Poster Presentation*).
- (66) Stamatopoulos, I. K.; Papastavrou, A. T.; Pinaka, A.; Tzouras, N. V.; Kotroni, E.; Sarkar, B.; Vougioukalakis, G. C. “NHC-Coordinated Ni- and Co-Based Complexes in Electrocatalytic C-C and C-Heteroatom Bond Forming Reactions” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Poster Presentation*).
- (65) Neofotistos, S. P.; Tzouras, N. V.; Vougioukalakis, G. C. “A Novel, Highly Sustainable System for the KA² Coupling: Exploring Manganese Catalysis for the Synthesis of Tetrasubstituted Propargylamines” Athens Conference on Advances in Chemistry 2018, Athens, Greece, October **2018** (*Poster Presentation*).
- (64) Mikroulis, T.; Markopoulou, P.; Pefkianakis, E. K.; Toubanaki, D.; Karagouni, E.; Pantelia, A.; Rotas, G.; Vougioukalakis, G. C. “A New Family of Photoactive Complexes: Enhanced DNA Intercalation and Fragmentation” 26th Annual Congress on Cancer Science and Targeted Therapies, San Francisco, California, USA, October **2018** (*Poster Presentation*).
- (63) Vougioukalakis, G. C. “2nd CHAOS Summer School: Athens, 10-13 September 2019” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Tarragona, Spain, September **2018** (*Oral Presentation*).
- (62) Tzouras, N. V.; Neofotistos, S. P.; Vougioukalakis, G. C. “Development of Sustainable Catalytic Systems for the KA² Coupling: Towards the Expedient Assembly of Tetrasubstituted Propargylamines” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Tarragona, Spain, September **2018** (*Poster Presentation*).
- (61) Neofotistos, S. P.; Tzouras, N. V.; Vougioukalakis, G. C. “Green and Sustainable KA² Coupling: A Novel, Highly-Efficient, Manganese-Based Catalytic Protocol for the Synthesis of Propargylamines” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Tarragona, Spain, September **2018** (*Poster Presentation*).
- (60) Tzouras, N. V.; Neofotistos, S. P.; Vougioukalakis, G. C. “The KA² Coupling under Sustainable, Zinc or Manganese Catalysis: Green and Expedient Synthesis of New Propargylamines” C-H

Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Alcalá, Spain, March **2018** (*Poster Presentation*).

- (59) Liori, A. A.; Stamatopoulos, I. K.; Papastavrou, A. T.; Pinaka, A.; Vougioukalakis, G. C. “Novel Copper-NHCs Homogeneous Catalytic Systems in Palladium-Free Sonogashira Reaction” 5th Hellenic Conference on Green Chemistry and Sustainable Development, Patra, Greece, October **2017** (*Poster Presentation*).
- (58) Pantelia, A.; Mikroulis, T.; Rotas, G.; Pefkianakis, E. K.; Toubanaki, D. K.; Karagouni, E.; Theodossiou, T. A.; Vougioukalakis, G. C. “A Family of Highly Efficient Ru(II) Photosensitizers with Enhanced DNA Intercalation” International Conference on Nanomedicine and Nanobiotechnology (ICONAN) 2017, Barcelona, Spain, September **2017** (*Poster Presentation*).
- (57) Vougioukalakis, G. C. “Sustainable Catalysis in Useful Organic Transformations” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Bath, UK, September **2017** (*Oral Presentation*).
- (56) Tzouras, N. V.; Kotroni, E.; Papastavrou, A. T.; Liori, A.; Pinaka, A.; Vougioukalakis, G. C. “Synthesis and Characterization of N-Heterocyclic Carbene Precursors” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Lisbon, Portugal, March **2017** (*Poster Presentation*).
- (55) Papastavrou, A. T.; Liori, A.; Pinaka, A.; Vougioukalakis, G. C. “Development and Applications of NHC Ligands in Sustainable Fe- and Cu-Based Catalytic Transformations” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Lisbon, Portugal, March **2017** (*Poster Presentation*).
- (54) Liori, A.; Papastavrou, A. T.; Pinaka, A.; Vougioukalakis, G. C. “Copper-based Catalytic Systems for C-H Activation and Application in Palladium-Free Sonogashira Reactions” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Lisbon, Portugal, March **2017** (*Poster Presentation*).
- (53) Tzouras, N. V.; Kotroni, E.; Papastavrou, A. T.; Liori, A.; Pinaka, A.; Vougioukalakis, G. C. “Synthesis and Characterization of N-Heterocyclic Carbene Precursors” 2016 Athens International Catalysis Symposium, Athens, Greece, November **2016** (*Poster Presentation*).
- (52) Stamatopoulos, I. K.; Kapsi, M.; Roulia, M.; Vougioukalakis, G. C.; Kostas, I. D.; Kollar, L.; Kyritsis, P. “Catalytic Applications of Immobilized Pd(II) Complexes” 2016 Athens International Catalysis Symposium, Athens, Greece, November **2016** (*Poster Presentation*).
- (51) Papastavrou, A. T.; Liori, A.; Pinaka, A.; Vougioukalakis, G. C. “Sustainable Fe- and Cu-Catalyzed Organic Transformations” 2016 Athens International Catalysis Symposium, Athens, Greece, November **2016** (*Poster Presentation*).
- (50) Liori, A.; Papastavrou, A. T.; Pinaka, A.; Vougioukalakis, G. C. “Copper-based Catalysis in Palladium-Free Sonogashira Reactions” 2016 Athens International Catalysis Symposium, Athens, Greece, November **2016** (*Poster Presentation*).
- (49) Vougioukalakis, G. C. “Vougioukalakis Research Group: Catalysis and Advanced Functional Materials” C-H Activation in Organic Synthesis (CHAOS) COST Action CA15106 Meeting, Vienna, Austria, September **2016** (*Oral Presentation*).
- (48) Papastavrou, A. T.; Liori, A.; Pinaka, A.; Stamatopoulos, I.; Vougioukalakis, G. C. “Sustainable Cu-Catalyzed Organic Transformations” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Ljubljana, Slovenia, March **2016** (*Poster Presentation*).
- (47) Kabanakis, A. N.; Alexiou, P.; Perganti, D.; Sagnou, M.; Vougioukalakis, G. C.; Falaras, P. “Novel Ru(II) Complexes Bearing Courcoumin-Based Ligands for Efficient Dye-Sensitized Solar Cells” Micro & Nano 2015, Athens, Greece, October **2015** (*Poster Presentation*).

- (46) Pefkianakis, E. K.; Nega, A. D.; Girtan, M.; Vougioukalakis, G. C.; Sakellariou, G. "Tailor-Designed Diblock Copolymers as Self-Organized Active Layers for OPVs" 8th International Symposium on Flexible Organic Electronics, Thessaloniki, Greece, July 2015 (*Oral Presentation*).
- (45) Pinaka, A.; Vougioukalakis, G. C. "Fe- and Cu-Based CO₂ Monetization: Development of Novel Homogeneous Catalytic Systems" XL International Summer School on Organic Synthesis "A. Corbella", Gargnano, Italy, June 2015 (*Poster Presentation*).
- (44) Papastavrou, A. T.; Vougioukalakis, G. C. "Development of NHC Ligands for Sustainable Fe- and Cu-Catalyzed Organic Transformations" XL International Summer School on Organic Synthesis "A. Corbella", Gargnano, Italy, June 2015 (*Poster Presentation*).
- (43) Liori, A.; Vougioukalakis, G. C. "Iron- and Copper-Based Catalytic Systems for Utilization in CO₂ Activation and Useful Organic Transformations" XL International Summer School on Organic Synthesis "A. Corbella", Gargnano, Italy, June 2015 (*Poster Presentation*).
- (42) Pinaka, A.; Papastavrou, A. T.; Liori, A.; Vougioukalakis, G. C. "Fe- and Cu-Based CO₂ Monetization: Development of Novel Homogeneous Catalytic Systems" Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Tarragona, Spain, March 2015 (*Poster Presentation*).
- (41) Manthou, V. S.; Pefkianakis, E. K.; Sakellariou, G.; Vougioukalakis, G. C. "Tailor-Designed Fullerene Derivatives for Optimal Heterojunction Organic Photovoltaics Bearing Self-Organized Active Layers" 10th Hellenic Polymer Society Conference, Patras, Greece, December 2014 (*Poster Presentation*).
- (40) Nega, A. D.; Pefkianakis, E. K.; Vougioukalakis, G. C.; Sakellariou, G. "Block Copolymers of Poly(3-hexylthiophene) for Optimal Heterojunction Organic Photovoltaics" 10th Hellenic Polymer Society Conference, Patras, Greece, December 2014 (*Poster Presentation*).
- (39) Iftimie, S.; Mallet, R.; Ion, L.; Antohe, S.; Merigeon, J.; Kompitsas, M.; Sakellariou, G.; Vougioukalakis, G. C.; Girtan, M. "On the Properties of ITO, ZnO:Al and NiO Thin Films Obtained by Thermal Oxidation" 5th International Symposium on Transparent Conductive Materials, Chania, Greece, October 2014 (*Poster Presentation*).
- (38) Papadopoulos, K.; Pefkianakis, E. K.; Vougioukalakis, G. C.; Christodouleas, D.; Calokerinos, A. C.; Dimotikali, D. "9,10-Dihydroacridines: Novel Fluorescent Probes for the Determination of Antioxidant Activities of Phenolic Compounds as well as Aqueous Extracts of Natural Products" 9th Aegean Analytical Chemistry Days, Chios, Greece, September - October 2014 (*Poster Presentation*).
- (37) Pefkianakis, E. K.; Theodossiou, T. A.; Toubanaki, D. K.; Karagouni, E.; Falaras, P.; Papadopoulos, K.; Vougioukalakis, G. C. "A Family of Potent Ru(II) Photosensitizers with Enhanced DNA Intercalation: Bimodal Photokillers" 11th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, Greece, July 2014 (*Poster Presentation*).
- (36) Iftimie, S.; Mallet, R.; Ion, L.; Antohe, S.; Merigeon, J.; Kompitsas, M.; Sakellariou, G.; Vougioukalakis, G. C.; Girtan, M. "On the Structural, Morphological, and Optical Properties of ITO, ZnO, ZnO:Al and NiO Thin Films Obtained by Thermal Oxidation" 11th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, Greece, July 2014 (*Poster Presentation*).
- (35) Nega, A. D.; Manthou, V. S.; Pefkianakis, E. K.; Girtan, M.; Vougioukalakis, G. C.; Sakellariou, G. "Optimal Heterojunction Organic Photovoltaics bearing Self-Organized Active Layers" 7th International Symposium on Flexible Organic Electronics, Thessaloniki, Greece, July 2014 (*Poster Presentation*).
- (34) Aluicio-Sarduy, E.; Baidak, A.; Vougioukalakis, G. C.; Keivanidis, P. E. "Phosphorimetric Characterization of Solution-Processed Oxygen Barriers for the Encapsulation of Organic

Electronics” 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, Switzerland, May 2014 (*Poster Presentation*).

- (33) Vougioukalakis, G. C. “Olefin Metathesis, Organocatalysis, and Ruthenium Photosensitizers: A Quick Tour” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Venice, Italy, May 2014 (*Oral Presentation*).
- (32) Pinaka, A.; Dimotikali, D.; Papadopoulos, K.; Vougioukalakis, G. C. “2-Amino Alcohols and their Aminoborane Derivatives in Asymmetric Organocatalysis” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Venice, Italy, May 2014 (*Poster Presentation*).
- (31) Pefkianakis, E. K.; Theodossiou, T. A.; Toubanaki, D. K.; Karagouni, E.; Falaras, P.; Papadopoulos, K.; Vougioukalakis, G. C. “A Highly Phototoxic Family of Ru(II) Photosensitizers as Potential Light-Activated Anticancer Agents” Catalytic Routines for Small Molecule Activation (CARISMA) COST Action CM1205 Meeting, Venice, Italy, May 2014 (*Poster Presentation*).
- (30) Vougioukalakis, G. C. “Basic Principles of Chemical Reactivity and Organic Chemistry” in the framework of the school “Principles of Chemical Synthesis” of the Marie Curie Initial Training Network DESTINY - Dye sensitized solar cells with enhanced stability, Athens, Greece, January 2014 (*Oral Presentation*).
- (29) Pefkianakis, E. K.; Papadopoulos, K.; Kokotos, G.; Vougioukalakis, G. C. “A New Family of Ru(II) Photosensitizers with High Singlet Oxygen Quantum Yield: Synthesis, Characterization, and Evaluation” 8th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, Thessaloniki, Greece, September 2013 (*Poster Presentation*).
- (28) Papadopoulos, K.; Pefkianakis, E. K.; Vougioukalakis, G. C.; Christodouleas, D.; Dimotikali, D. “A Novel Fluorometric Assay for the Determination of Hydrogen Peroxide in Water Samples Using the Reaction of Ferrous Ions with 9,10-Dihydroacridine” 8th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, Thessaloniki, Greece, September 2013 (*Poster Presentation*).
- (27) Pinaka, A.; Vougioukalakis, G. C.; Dimotikali, D.; Yannakopoulou, E.; Chankvetadze, B.; Papadopoulos, K. “ β -Amino Alcohol-Catalyzed Direct Asymmetric Aldol Reactions in Aqueous Micelles” 1st Portuguese-Brazilian Organic Chemistry Symposium, Lisbon, Portugal, September 2013 (*Poster Presentation*).
- (26) Vougioukalakis, G. C.; Kabanakis, A. N.; Pefkianakis, E. K.; Stergiopoulos, T.; Falaras, P. “A Novel Ru(II) Sensitizer Bearing a Terpyridine Ligand with an Anthracene Moiety: Synthesis and Application in Dye-Sensitized Solar Cells” European Materials Research Society (E-MRS) 2013 Spring Meeting, Strasbourg, France, May 2013 (*Poster Presentation*).
- (25) Konstantakou, M.; Stergiopoulos, T.; Vaenas, N.; Vougioukalakis, G. C.; Kontos, A. G.; Tserepi, A.; Falaras, P. “Tailoring the Surface Properties and Porosity of TiO₂ Films with Plasma Treatment for Efficient Dye-Sensitized Solar Cells based on the Co(II)/Co(III) Redox Shuttle” European Materials Research Society (E-MRS) 2013 Spring Meeting, Strasbourg, France, May 2013 (*Poster Presentation*).
- (24) Vougioukalakis, G. C.; Stergiopoulos, T.; Falaras, P. “Ru Dyes bearing Pyridine-Quinoline Hybrid Ligands for Dye-Sensitized Solar Cells” 40th International Conference on Coordination Chemistry, Valencia, Spain, September 2012 (*Oral Presentation*).
- (23) Papadopoulos, K.; Pinaka, A.; Vougioukalakis, G. C.; Terzis, A.; Dimotikali, D. “Synthesis of Stable 2-Aminoalcohol N-Boranes Obtained via the Reduction of α -Amino Acids with Sodium Borohydride” 21st Greek National Conference on Chemistry, Thessaloniki, Greece, December 2011 (*Oral Presentation*).

- (22) Pinaka, A.; Vougioukalakis, G. C.; Papadopoulos, K.; Triantis, T.; Yannakopoulou, E.; Dimotikali, D. “Catalytic Asymmetric Synthesis of α -Aminoacids in Micellar Systems” 11th Hellenic Symposium on Catalysis, Athens, Greece, October **2010** (*Poster Presentation*).
- (21) Anousakis, K.; Pinaka, A.; Vougioukalakis, G. C.; Papadopoulos, K.; Igglessi-Markopoulou, O.; Dimotikali, D. “Catalytic Asymmetric Synthesis of δ -Ketoesters in Phase-Transfer Systems” 11th Hellenic Symposium on Catalysis, Athens, Greece, October **2010** (*Poster Presentation*).
- (20) Vougioukalakis, G. C.; Konti, G.; Falaras, P. “Fine-Tuning Ruthenium Sensitizers: Enhancement of the Electron Flow Directionality in Dye-Sensitized Solar Cells” COST D35 Workshop: Controlling Photophysical Properties of Metal Complexes: Toward Molecular Photonics, Prague, Czech Republic, May **2010** (*Poster Presentation*).
- (19) Vougioukalakis, G. C.; Grubbs, R. H. “Ruthenium-Based Metathesis Catalysts Coordinated with Heterocyclic Carbene Ligands: Synthesis, Structure, and Catalytic Activity” 3rd Hellenic Symposium on Organic Synthesis, Athens, Greece, October **2009** (*Oral Presentation*).
- (18) Vougioukalakis, G. C.; Petzetakis, N.; Pitsikalis, M.; Hadjichristidis, N.; Stamatopoulos, I.; Kyritsis, P.; Terzis, A.; Raptopoulou, C. “Vinyl Polymerization of Norbornene with a Novel Nickel(II) Diphosphinoamine / Methylaluminumoxane Catalytic System” 7th Hellenic Polymer Conference, Ioannina, Greece, September **2008** (*Oral Presentation*).
- (17) Vougioukalakis, G. C.; Grubbs, R. H. “Synthesis, Structure, and Catalytic Activity of Ruthenium-Based Metathesis Catalysts Coordinated with Thiazol-2-ylidene and Unsymmetrical *N*-Heterocyclic Carbene Ligands” NATO Advanced Study Institute: New Smart Materials via Metal Mediated Macromolecular Engineering: from Complex to Nano Structures, Antalya, Turkey, September **2008** (*Oral Presentation*).
- (16) Vougioukalakis, G. C.; Grubbs, R. H. “Ruthenium-Based Olefin Metathesis Catalysts Coordinated with Thiazol-2-ylidene Ligands” 234th American Chemical Society National Meeting, Boston, Massachusetts, USA, August **2007** (*Oral Presentation*).
- (15) Vougioukalakis, G. C.; Grubbs, R. H. “Synthesis and Activity of Ruthenium Olefin Metathesis Initiators Bearing Thiazol-2-ylidene Ligands” 17th International Symposium on Olefin Metathesis, Pasadena, California, USA, July **2007** (*Poster Presentation*).
- (14) Roubelakis, M. M.; Vougioukalakis, G. C.; Orfanopoulos, M. “Open-cage Fullerenes Having 11-, 12- and 13-membered-ring Orifices. Chemical Transformations of the Organic Addends on the Rim of the Orifice” 2nd Hellenic Symposium on Organic Synthesis, Athens, Greece, April **2007** (*Poster Presentation*).
- (13) Vougioukalakis, G. C.; Grubbs, R. H. “Synthesis and Activity of Ruthenium Olefin Metathesis Initiators Bearing Unsymmetrical *N*-Heterocyclic Carbene Ligands” 232th American Chemical Society National Meeting, San Francisco, California, USA, September **2006** (*Oral Presentation*).
- (12) Vougioukalakis, G. C.; Grubbs, R. H. “Ruthenium Olefin Metathesis Initiators Bearing Unsymmetrical *N*-Heterocyclic Carbene Ligands” 37th International Conference on Coordination Chemistry, Cape Town, South Africa, August **2006** (*Poster Presentation*).
- (11) Nye, L. C.; Vougioukalakis, G. C.; Streletskii, A. V.; Boltalina, O. V.; Orfanopoulos, M.; Drewello, T. “Cage-open Fullerenes Studied by Laser-based Mass Spectrometry: Fragmentation-free Analysis, Cage Closure and Coalescence” 17th International Mass Spectrometry Conference, Prague, Czech Republic, August **2006** (*Poster Presentation*).
- (10) Vougioukalakis, G. C.; Grubbs, R. H. “Ruthenium Olefin Metathesis Initiators Bearing Unsymmetrical *N*-Heterocyclic Carbene Ligands” Robert H. Grubbs Nobel Prize Symposium, Pasadena, California, USA, July **2006** (*Poster Presentation*).
- (9) Vougioukalakis, G. C.; Orfanopoulos, M.; Streletskii, A. V.; Boltalina, O. V.; Drewello, T. “Cage-open Fullerenes Studied by Laser-based Mass Spectrometry: Fragmentation-free Analysis, Cage

Closure and Coalescence” 209th Meeting of The Electrochemical Society, Denver, Colorado, USA, May **2006** (*Poster Presentation*).

- (8) Vougioukalakis, G. C.; Roubelakis, M. M.; Orfanopoulos, M. “Synthesis, Isolation and Characterization of Open-Cage [60]Fullerene Derivatives. Isolation of the First Adduct without any Organic Addends on the Rim of its Orifice” 20th Greek National Conference of Chemistry, Ioannina, Greece, September **2005** (*Poster Presentation*).
- (7) Vougioukalakis, G. C.; Hatzimarinaki, M.; Orfanopoulos, M. “Radical Functionalization of Aza[60]fullerene: New Monoadducts and Mechanistic Studies” The 14th European Symposium on Organic Chemistry, Helsinki, Finland, July **2005** (*Oral Presentation*).
- (6) Roubelakis, M.; Vougioukalakis, G. C.; Orfanopoulos, M. “Reactive Intermediates: The Cyclopropyl Group as a Mechanistic Probe in the Ene Reaction of N-phenyl-1,2,4-triazoline-3,5-dione (PTAD) with Alkenes” Reaction Mechanisms VII, Dublin, Ireland, July **2004** (*Poster Presentation*).
- (5) Vrantza, D.; Gimisis, T.; Vougioukalakis, G. C.; Orfanopoulos, M.; Perea, S. E.; Miranda, M.; Gasparutto, D.; Cadet, J., “Independent Photochemical Generation of Guanosine Base Radicals” 9th International Symposium on Organic Free Radicals, Corsica, France, June **2004** (*Oral Presentation*).
- (4) Sarafis, P. D.; Vougioukalakis, G. C.; Orfanopoulos, M. “Mechanistic Study of Proton Transfer Reactions Between Triphenylmethanes” 19th Greek National Conference on Chemistry, Heraklion, Greece, November **2002** (*Poster Presentation*).
- (3) Vougioukalakis, G. C.; Hatzimarinaki, M.; Orfanopoulos, M. “Synthesis and Functionalization of Heterofullerene (C₅₉N)₂. A Mechanistic Study on its Radical Reactions” 19th Greek National Conference on Chemistry, Heraklion, Greece, November **2002** (*Poster Presentation*).
- (2) Orfanopoulos, M.; Vougioukalakis, G. C. “Changes in Triazolinedione-Alkene Ene Reaction Mechanisms. Intra- and Intermolecular Isotope Effects” 8th European Symposium on Organic Reactivity, ESOR-8, Dubrovnic, Croatia, September **2001** (*Oral Presentation*).
- (1) Birikaki, L.; Angelis, Y. S.; Vougioukalakis G. C.; Orfanopoulos, M. “ γ -Cyclodextrin/C₆₀-Sensitized Photooxygenations of Alkenes in Polar and Non Polar Solvents” The 12th European Symposium on Organic Chemistry, Groningen, The Netherlands, July **2001** (*Oral Presentation*).

RESEARCH PROGRAMS

Have secured 1,363,488 € during academic independence (since 2014) exclusively from competitive research programs and competitive research fellowships to research group members.

- **2023-2027** Supramolecular luminescent chemosensors for environmental security - LUCES (COST Action CA22131 funded by the intergovernmental framework for European Cooperation in Science and Technology). *Participation as Management Committee Member*. Action Chair: Prof. L. Rodriguez, University of Barcelona, Spain. Funding for the Vougioukalakis Research Group (meetings participation): 1,200 €.
- **2022-2026** Understanding interaction light – biological surfaces: possibility for new electronic materials and devices - PhoBioS (COST Action CA21159 funded by the intergovernmental framework for European Cooperation in Science and Technology). *Participation as Management Committee Member*. Host of Visiting Professor P. E. Keivanidis from Cyprus Technical University for one week. Action Chair: Prof. M. Szczerska, Gdansk University of Technology, Poland. Funding for the Vougioukalakis Research Group (short-term scientific missions, meetings participation, and training schools): 3,500 €.
- **2022-2023** Design, development and applications of sustainable catalytic systems in organic chemistry (Greek National Scholarships Foundation PhD research fellowship (on the basis of

research proposals evaluation). Fellow: Leandros P. Zorba). *PhD Supervisor and Host Group*. Funding: 16,000 €.

- **2021-2024** Modified carbon nanostructures and related 2D nanomaterials with small organic and coordination molecules as sustainable electrocatalysts - NANOElectroCAT (2nd Hellenic Foundation for Research and Innovation call to support post-doctoral researchers). *Project Advisor & PhD Student Supervisor* (Post-doctoral fellow: Dr. Amalia Rapakousiou). This funding scheme is considered to be the most challenging and prestigious in Greek academia. The NANOElectroCAT project received the 4th highest grade out of 149 projects from all Physical Sciences fields in all Greek Universities and Research Institutions in the specific call. Funding for the Vougioukalakis Research Group: 36,975.32 €.
- **2021-2022** National Contribution-Funding from the Greek General Secretariat for Research and Technology (GSRT) as reward for the participation in competitive research programs of European Union. *Principal Investigator*. Funding: 6,041.20 €.
- **2020-2023** Innovative Industrial Materials with Advanced Multifunctionality, Prolonged Lifetime and Improved Performance Against Environmental Conditions for Versatile Protective Equipment – PROTECT (Operational Program Competitiveness, Entrepreneurship and Innovation, under the call “Research-Create-Innovate”). *Principal Investigator*. The PROTECT project/consortium received the 2nd highest grade out of 206 projects/consortia in the field of “Materials-Constructions” that competed in the specific call amongst all Greek Universities, Research Institutions, SMEs, and Industries. Besides the Vougioukalakis Research Group, PROTECT consortium comprises research teams from the National Hellenic Research Foundation, the Greek Ministry of Defense, and Costas Siamidis S.A. Total project Funding: 871,002.32 €. Funding for the Vougioukalakis Research Group: 230,417.82 €.
- **2020-2023** Advancing the Sustainable Nature of Catalysis: New Synthetic Methodologies and Valuable Organic Architectures - SUSTAIN (University Professors and Researchers Funding Program of the Hellenic Foundation for Research and Innovation). *Project Coordinator - Principal Investigator*. This funding scheme is considered to be the most challenging and prestigious in Greek academia. The SUSTAIN project was one of the only 12 funded proposals from all Physical Sciences fields in all Greek Universities and Research Institutions in the specific call. Funding: 199,691.03 €.
- **2019** Development of Sustainable Homogeneous Catalytic Systems and Synthesis of Added-Value Organic Compounds (Greek National Scholarships Foundation post-doctoral research fellowship (on the basis of research proposals evaluation – evaluated as 23rd out of the approximately 200 applications in the field of Natural Sciences). Fellow: Athanasios Zarkadoulas). *Post-doctoral Advisor and Host Group*. Turned down due to the simultaneous award of another preferred fellowship. Funding: 26,400 €.
- **2019-2020** National Contribution-Funding from the Greek General Secretariat for Research and Technology (GSRT) as reward for the participation in competitive research programs of European Union. *Principal Investigator*. Funding: 5,384.32 €.
- **2020-2021** Sustainable Catalytic Systems in Organic Synthesis (Operational Program: Human Resources Development, Education and Lifelong Learning, financed by the Greek Ministry of Economy and Development and the European Commission). *Project Coordinator - Principal Investigator*. This project was evaluated as 6th out of 291 submitted proposals from all Physical Sciences fields in all Greek Universities and Research Institutions. Funding: 41,542 €.
- **2018-2021** Development, Characterization and Study of Photoactive Compounds with Possible Biological Action (Greek National Scholarships Foundation Ph.D. research fellowship (on the basis of research proposals evaluation). Fellow: Theodoros Mikroulis). *PhD Advisor and Host Group*. Success rate (Natural Sciences) for the specific call: 41.7%. Funding: 29,408 €.
- **2018-2020** Cobalt and Nickel Complexes with NHC Ligands: Electrochemistry and (Electro)catalysis (Programme for the Promotion of the Exchange and Scientific Cooperation Between Greece and Germany – IKYDA2018). *Project Leader – Principal Investigator*. *Pre-submission role: Key co-author*. German Collaborator – Research Group: Professor B. Sarkar,

Institute for Chemistry and Biochemistry, Free University of Berlin. Funding for the Vougioukalakis Research Group: 9,223 €.

- **2018-2019** National Contribution-Funding from the Greek General Secretariat for Research and Technology (GSRT) as reward for the participation in competitive research programs of European Union. Principal Investigator. Funding: 3,473 €.
- **2016-2023** A paradigm shift in cancer therapy - using mitochondria-powered chemiluminescence to non-invasively treat inaccessible tumours - LUMIBLAST (Future and Emerging Technologies call - FETOPEN - of the Horizon 2020 Programm funded by European Commission). Principal Investigator. Pre-submission role: Key co-author. Project Coordinator: Professor K. Berg, Department of Radiation Biology, Oslo University Hospital. The LUMIBLAST project was evaluated as 6th out of 821 submitted proposals in all research areas. The success rate in the specific call was 1.3% (11 projects were funded out of 821). European Commission's Innovation Radar Prize in the Category "Innovative Science 2019". Total project Funding: 3,031,375 €. Funding for the Vougioukalakis Research Group: 537,125 €.
- **2016-2019** Synthesis of Organic Photoactive Compounds with Biological Applications (Greek National Scholarships Foundation Ph.D. research fellowship (on the basis of research proposals evaluation). Fellow: Anna Pantelia). PhD Advisor and Host Group. Success rate (Natural Sciences) for the specific call: 14.2%. Funding: 29,408 €.
- **2015-2019** C-H Activation in Organic Synthesis - CHAOS (COST Action CA15106 funded by the intergovernmental framework for European Cooperation in Science and Technology). Participation as Management Committee Member. Inclusiveness Target Countries Conference Grants Committee Member. Coordinator and Organizing Committee Member of the "2nd CHAOS Training School" organized in Athens, Greece (July 2019). Action Chair: Assist. Prof. M. Schnürch, Technische Universität Wien, Austria. Funding for the Vougioukalakis Research Group (short-term scientific missions, meetings participation, and training schools): 18,500 €.
- **2015-2016** Environmental Protection via Sustainable Catalytic Processes (Greek National Scholarships Foundation post-doctoral research fellowship financed by SIEMENS (on the basis of research proposals evaluation). Fellow: Ioannis Stamatopoulos). Post-doctoral Advisor and Host Group. Funding: 22,300 €.
- **2013-2015** Tailor-made Metal-Organic Frameworks as Trace Gas Detectors for Food Quality Control (Greek-German bilateral collaboration program financed by the Greek Ministry of Education and the European Commission). Principal co-Investigator (with Assistant Professor G. S. Papaefstathiou, Department of Chemistry, University of Athens). Pre-submission role: Key co-author. Principal Investigator of the German team: Professor S. Kaskel, Department of Chemistry and Food Chemistry, Technical University Dresden. Participating Greek Enterprises: G. Kallimanis S.A., Aigio, Greece and Kefalonia Fisheries S.A., Lixouri, Greece. Funding for the University of Athens Research Groups: 210,000 €. Funding for the Vougioukalakis Research Group: 104,400 €.
- **2013-2017** Catalytic Routines for Small Molecule Activation - CARISMA (COST Action CM1205 funded by the intergovernmental framework for European Cooperation in Science and Technology). Participation as Management Committee Member. Participation in Working Group 2: CO_x activation and transformation. Action Chair: Prof. M. Albrecht, University College Dublin, Ireland. Funding for the Vougioukalakis Research Group (meetings participation and training schools): 8,000 €.
- **2013-2015** Optimal heterojunction organic photovoltaics bearing self-organized active layers (Greek-French bilateral collaboration program Platon financed by the Greek Ministry of Education and the European Commission). Principal co-Investigator (with Lecturer G. Sakellariou, Department of Chemistry, University of Athens). Pre-submission role: Key co-author. Principal Investigator of the French team: Associate Professor M. Girtan, Department of Physics, Angers University. Funding for the University of Athens Research Groups: 30,000 €. Funding for the Vougioukalakis Research Group: 15,000 €.

- **2013-2015** Advanced materials and devices for energy collection and administration (Research Program “KRIPIS” financed by the Greek Ministry of Education and the European Commission). *Participation as Researcher. Pre-submission role: Co-author.* Project Coordinator: Director of IAMPPNM, NCSR Demokritos. Funding: 883,200 €.
- **2013-2015** Optimal heterojunction organic photovoltaics bearing self-organized active layers (Greek National Scholarships Foundation post-doctoral research fellowship financed by SIEMENS (on the basis of research proposals evaluation). Fellow: Eleftherios K. Pefkianakis). *Post-doctoral co-Advisor and Host Group* (with Lecturer G. Sakellariou, Department of Chemistry, University of Athens). Funding: 39,000 €.
- **2013** Development of next generation oxygen-barrier materials for organic electronic and dye-sensitized solar cell applications (Scientific Project funded by John S. Latsis Public Benefit Foundation. Only 18 out of the 802 submitted proposals were funded in that call). *Principal Investigator and Project Coordinator. Pre-submission role: Main author.* Team Members: Professor T. Anthopoulos (Department of Physics, Imperial College London), Dr. P. Falaras (IAMPPNM, NCSR Demokritos), Dr. P. Keivanidis (CNST, Italian Institute of Technology), Dr. T. Stergiopoulos (IAMPPNM, NCSR Demokritos). Funding: 12,000 €.
- **2013-2014** Organocatalysis - ORCA (COST Action CM0905 funded by the intergovernmental framework for European Cooperation in Science and Technology). *Participation as Management Committee Substitute. Participation in Working Groups 1 and 3: Catalysts and Reactions.* Action Chair: Prof. P. Pihko, University of Jyväskylä, Finland.
- **2012-2016** Dye sensitized solar cells with enhanced stability - DESTINY (Marie Curie Initial Training Network financed by the European Commission: FP7-PEOPLE-2012). *Participation as lead co-Investigator and PhD co-supervisor (1 Student). Lead Tutor and Organizer of a five-days school on the "Principles of Chemical Synthesis". Co-organizer of the first Annual Meeting of the Network. Participation in the Network meetings (Supervisory Board, etc). Pre-submission role: Established the contacts between the Greek team and the network. Key author of the Greek team.* Network Coordinator: Professor A. B. Walker, Department of Physics, University of Bath. Greek Team Coordinator: Dr. P. Falaras. Funding for the Greek Research Group: 468,338 €.
- **2012-2015** Advanced materials for highly efficient dye-sensitized solar cells - AdMatDSC (Research Program “ΑΡΙΣΤΕΙΑ” - EXCELLENCE - financed by the Greek Ministry of Education and the European Commission). *Participation as Researcher and PhD co-supervisor (1 Student). Pre-submission role: Key co-author.* Principal Investigator: Dr. P. Falaras. Total Funding: 350,000 €.
- **2012-2013** Novel electrolytes for dye-sensitized solar cells: Synthesis and utilization of innovative cobalt-based redox couples (Foundation for Education and European Culture Research Scholarship). *Principal Investigator. Pre-submission role: Author.* Host Laboratory: Dr. P. Falaras. Total Funding: 4,000 €.
- **2012-2014** Study of novel chemiluminescent systems and elaboration of their applications on the development of new automated analytical methods for the determination of food constituents, environmental pollutants, and active pharmaceutical compounds - LUMEN (Research Program “Thales” financed by the Greek Ministry of Education and the European Commission). *Participation as Researcher and Postdoctoral Advisor (1 Postdoctoral Fellow).* Project Coordinator: Associate Prof. A. G. Vlessidis, Department of Chemistry, University of Ioannina. Total Funding: 584,775 €.
- **2012-2014** Innovative materials for nanocrystalline solar cells - NANOSOLCEL (Research Program “Thales” financed by the Greek Ministry of Education and the European Commission). *Participation as Research Advisor in Synthetic Chemistry.* Project Coordinator: Prof. P. Lianos, Department of Engineering Science, University of Patras. Total Funding: 521,740 €.
- **2011-2012** Synthesis, characterization, and evaluation of the efficiency of new ruthenium photosensitizers in dye-sensitized solar cells (Foundation for Education and European Culture Research Scholarship). *Principal Investigator. Pre-submission role: Author.* Host Laboratory: Dr. P. Falaras. Total Funding: 4,000 €.

- **2011-2013** Sensitizer activated nanostructured solar cells - SANS (NMP Collaborative Project financed by the European Commission: FP7-NMP-2009 SMALL-3). Participation as Researcher. Project Coordinator: Prof. H. J. Snaith, Department of Physics, University of Oxford. Greek Team Coordinator: Dr. P. Falaras. Funding for the Greek Research Group: 466,000 €.
- **2009-2010** Development of novel asymmetric titanocene(IV) catalysts: Applications in the coordination polymerization of isocyanates (Greek National Scholarships Foundation Research Fellowship). Principal Investigator. Pre-submission role: Author. Host Laboratory: Prof. N. Hadjichristidis. Total Funding: 7,200 €.
- **2005-2008** Development of new catalysts for olefin metathesis: Applications in the synthesis of new polymeric systems - OLEFINMETCAT (Marie Curie Outgoing International Fellowship financed by the European Commission). Principal Researcher. Pre-submission role: Author. Project Coordinator: Prof. N. Hadjichristidis. Total Funding: 228,867 €.
- **2005** Synthesis and photochemical studies of novel fullerene C₆₀ adducts (Research Program “ΠΥΘΑΓΟΡΑΣ II” financed by the Greek Ministry of Education). Participation as Researcher. Pre-submission role: Co-author. Principal Investigator: Prof. M. Orfanopoulos. Total Funding: 124,060 €.
- **1999-2001** Models for DNA oxidative cleavage via reactive oxygen species (Research Program “ΕΠΙΕΤ II” financed by the Research and Technology Greek Secretariat and the European Commission). Participation as PhD Candidate - Researcher. Project Coordinator: Prof. M. Orfanopoulos. Principal Researcher: Dr. T. Gimisis. Total Funding: 91,320 €.

CONSULTING & RESEARCH/INNOVATION SERVICES

- Pharmathen S.A. Pharmaceutical Industry (one of the leading complex drug delivery and formulation developers with customers in more than 80 countries worldwide): Design and synthesis of possible pharmaceutical formulations’ contaminants/by-products.
- A USA-based private company: Design and synthesis of innovative compounds with biological applications.
- DEMO S.A. Pharmaceutical Industry (one of the major pharmaceutical manufacturers in Greece with the largest medicines production factory in SE Europe, currently present in more than 90 countries worldwide): Consulting on the production of new pharmaceutical agents.

EVALUATOR FOR RESEARCH PROGRAMS AND FUNDING AGENCIES

- European Commission: *Reviewer-Evaluator and Reporter in European Community's Horizon 2020, European Research Council (ERC – Starting Grants and Advanced Grants), Marie Curie Individual Fellowships, EIC Pathfinder, FET-Open, and Seventh Framework (FP7) Programmes Research Projects (Invited)*
- French National Research Agency ANR (The French Public Research Agency that Provides Funding for Project-Based Research): *Reviewer-Evaluator (Invited)*
- Portuguese Foundation for Science and Technology (The Portuguese Public Research Funding Agency that Selects and Distributes Research Funds for a Wide Range of Scientific Fields of Research): *External Reviewer-Evaluator in both Project Grant and Investigator Grant Schemes (Invited)*
- Italian Ministry for University and Research (MUR) – The National Committee of Research Guarantors (CNGR): *Reviewer-Evaluator in Fundamental Research Projects (Invited)*
- European Cooperation in Science and Technology (COST) intergovernmental framework actions: *External Reviewer-Evaluator (Invited)*
- Cyprus Research Promotion Foundation (RPF - the Public Funding Agency of Cyprus Selecting and Distributing Research Funds for Technological Development and Innovation): *Evaluation Committee Panels Member and External Reviewer-Evaluator (Invited)*

- Science Fund of the Republic of Serbia (The Serbian Public Funding Agency Selecting and Distributing Research Funds for a Wide Range of Scientific Fields of Research): *External Reviewer-Evaluator (Invited)*
- Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding – UEFISCDI (The Romanian Public Funding Agency Selecting and Distributing Research Funds for a Wide Range of Scientific Fields of Research): *External Reviewer-Evaluator (Invited)*
- The Qatar National Research Fund – QNRF (The national funding agency of the state of Qatar dedicated to fund research excellence in all fields of science): *Peer Reviewer – Review Panels Member (Invited)*
- Research and Technology Greek Secretariat (GSRT): *Five-Membered Evaluation Committees' Member concerning Research, Technological Development & Innovation Programs, as well as Objections Committees Member, and Research and Innovation Expenses Certification Evaluator (Invited)*
- Hellenic Foundation for Research and Innovation (HFRI): *Research Programs Certification Evaluator (Invited)*
- King Fahd University of Petroleum & Minerals (KFUPM): *Reviewer-Evaluator of research projects submitted for funding (Invited)*
- National Technical University of Athens: *External Evaluator in the framework of the Program for the Support of Basic Research (Invited)*
- University of Crete: *Expert Reviewer in the framework of the Internal Research Support Funding Program (Invited)*

OTHER SCIENTIFIC ACTIVITIES AND INITIATIVES

- Established the connections and organized the first steps for the association of the National and Kapodistrian University of Athens with the Harbin Institute of Technology (China), as well as for the signature of a Memorandum of Understanding between the two institutions (Autumn 2023).
- Member of the Ami2030 Advanced Materials Initiative, a European Forum seeking to sustainably transform the European advanced materials sector.
- Invited Respondent Academic for the Times Higher Education World University Rankings (selected based on record of research publications – representing peers in both discipline and country).
- Invited Respondent Academic for the QS World University Rankings.

COLLABORATING RESEARCH GROUPS

- Professor T. Anthopoulos, KAUST Solar Center, King Abdullah University of Science and Technology, Kingdom of Saudi Arabia: *Organic Light-Emitting Diodes, Field-Effect Transistors, and Photodetectors / Oxygen-Barrier Materials for Organic Electronics*
- Professor K. Berg, Institute for Cancer Research, Oslo University Hospital, Norway: *Biological Applications of Organic and Coordination Compounds*
- Professor A. A. Danopoulos, Department of Chemistry, National and Kapodistrian University of Athens, Greece: *Organometallic Chemistry and Applications*
- Professor L. Eide, Institute of Clinical Medicine, Faculty of Medicine, University of Oslo, Norway: *Mitotropic Nanocarriers*
- Assistant Professor P. Giastas, Agricultural University of Athens / Laboratory of Molecular Neurobiology & Immunology, Hellenic Pasteur Institute, Greece: *Structure-function relationships of nicotinic acetylcholine receptors (nAChRs)*

- Associate Professor D. Giokas, Department of Chemistry, University of Ioannina, Greece: *Analytical and Materials Chemistry Applications*
- Associate Professor P. E. Keivanidis, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Cyprus: *Phosphorimetry / Organic Solar Cells / Oxygen-Barrier Materials for Organic Electronics*
- Dr. J. Knight, Managing Director, Knight Scientific Limited, Plymouth, UK: *Collaboration in the field of Organic and Coordination Compounds of Biological Relevance*
- Professor P. Kyritsis, Department of Chemistry, National and Kapodistrian University of Athens, Greece: *Inorganic Chemistry*
- Professor S. P. Nolan, Department of Inorganic and Physical Chemistry, Ghent University, Belgium: *Sustainable Catalysis*
- Professor M. Pitsikalis, Department of Chemistry, National and Kapodistrian University of Athens, Greece: *Polymers Synthesis, Characterization, and Applications*
- Professor X. Ribas, Institut de Quimica Computacional i Catalisi and Department de Quimica, Universitat de Girona, Spain: *Supramolecular Chemistry and Catalysis*
- Professor J. S. M. Samec, Department of Organic Chemistry, Stockholm University, Sweden: *Organometallic Catalysis and Renewable Energy Applications*
- Professor B. Sarkar, Institut für Anorganische Chemie, Universität Stuttgart, Germany: *Organometallic and Coordination Chemistry, Electrochemistry and Electrocatalysis*
- Dr. N. Tagmatarchis, Research Director, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece: *Carbon-Based Materials (Carbon Nanotubes, Graphene, Fullerenes) Studies and Applications / Electrochemistry and Electrocatalysis*
- Dr. T. A. Theodossiou, Researcher, Institute for Cancer Research, Oslo University Hospital, Norway: *Photodynamic Therapy Applications of Organic and Coordination Photosensitizers*
- Professor H. H. Tonnesen, Department of Pharmacy, University of Oslo, Norway: *Drug Transport and Delivery*
- Professor I. Turel, Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia: *Coordination Chemistry and Catalysis*
- Assistant Professor Y. Zaganyarski, Faculty of Chemistry, University of Sofia, Bulgaria: *Coordination Chemistry and Catalysis*