



Dr. Kalliopi Ladomenou

Assist. Professor

Inorganic Chemistry-Metal Complexes

Department of Chemistry, Hephaestus Laboratory

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Expertise: Design, Synthesis, Characterization of porphyrins and metal complexes used as photosensitizers, catalysts or biomimetic compounds for numerous applications. Synthesis of material type hybrids based on carbon dots. Photocatalytic H₂ production, CO₂ reduction, DSSC, medical applications, pollutant photodegradation.

Research Activities:

- Design, preparation and study of metalloporphyrin complexes for use in **hydrogen production** and **CO₂ reduction**.
- Synthesis and study of bio-inspired photosynthetic systems for their use in **dye-sensitized solar cells**.
- Design and study of molecules as photosensitizers and as catalysts for various **environmental applications**.
- **Study of intermolecular interactions** of porphyrin systems with carbohydrates.
- **Biomimetic catalysis** and modeling of active centers of biological processes.
- New hybrid materials with applications in **nanotechnology**.
- Study and use of photosensitizers for **photodynamic treatment of microbial infections**, killing of unwanted pathogens in the environment and **oxidation of chemical pollutants**.
- New metalloporphyrin complexes able to **interact with biological molecules** (DNA, RNA) for **therapeutic purposes**.

Education:

- **Ph.D.** in the Synthesis and physical Studies of porphyrin coordination compounds, Department of Chemistry, **University of Liverpool**, UK.
- **M.Sc.** in Inorganic Chemistry synthesis of photosensitizers with application in photovoltaic cells, Department of Chemistry, **University of Crete**, Greece.
- **B.Sc.** Department of Chemistry, **University of Crete**, Greece

Previous Employment/Occupation:

2019 – 2021 Department of Chemistry, University of Crete – Research Associate (K.A.:10312) (ECO CRETE).

2014 – 2016 Department of Chemistry, University of Crete – Research Associate (K.A.:03746) «Synthesis and studies of Push-Pull type porphyrins: Potential applications in converting solar energy into electricity».

2009 – 2012 Department of Chemistry, University of Crete – Research Associate (K.A.: 02807) «Bio-inspired Solar Energy Utilization (BIOSOLENUTI) 229927».
(<https://biosolenuti.gr/>)

2007 – 2020 Department of Agriculture, Hellenic Mediterranean University, Adjunct Lecturer.

2004 – 2006 Department of Chemistry, University of Crete – Research Associate (K.A.: 01949) «Energy conversion at the molecular level: Model compounds of cytochrome oxidase C for the reduction of molecular O₂ to H₂O».

2002 – 2004 Department of Chemistry, University of Edinburgh, UK, Postdoctoral Researcher.

1999 – 2000 Department of Chemistry, University of Liverpool, UK, Laboratory Assistant.

06-09/1997 Université de Paris-Sud, France – Researcher.

Participation in Research Projects:

1997-2024: Participation in 16 research projects funded by EU and National bodies.

Publications:

- Publications in International Scientific Journals with judges: Total 56
- International Patent: Total 1
- Scopus, bibliographic base reports 1200 citations and *h-index* = 16
(<https://www.scopus.com/authid/detail.uri?authorId=6506002039>)
- Textbooks - Teaching notes: Total 10
- Publications in International Conferences: Total 46

Reviewer:

- Elsevier (Chinese Journal of Catalysis, Inorganic Chemistry Communications)
- Royal Society of Chemistry
- MDPI (Catalysts, Minerals, Nanomaterials, Processes, International Journal of Molecular Sciences, Biomedicines, Carbon, Colorants, Molecules, Inorganics)
- Springer (Environmental Science and Pollution Research)
- Science Direct (Inorganic Chemistry Communications, Chinese Journal of Catalysis, Dyes and Pigments).

- Innovation Forever (Journal of Modern Green Energy).
- Frontiers (Frontiers in Chemical Biology).

Teaching Activities:

2022-Today: Undergraduate Courses

General Chemistry, Inorganic Chemistry I&II (Theory and Laboratory), Bioinorganic Chemistry.

Postgraduate Courses

Heavy Metals in Natural Products (M.Sc. in Cosmetic Chemistry), Nanotechnology and nanomaterials-Synthesis, characterization, and applications of porphyrin molecules, Instrumentation-Nuclear Magnetic Resonance (M.Sc. in Nanotechnology).

2004-2022: Lectures (Theory and Laboratory) related to General Chemistry, Inorganic Chemistry, Organic Chemistry, Food Chemistry, Analytical Chemistry, Biochemistry, Agricultural Chemistry at the Department of Chemistry, International Hellenic University, University of Crete, at the Hellenic Open University, at the Department of Agriculture, Hellenic Mediterranean University and at Minoan International College (all courses were in English).

Conference Organization, Participation/Attendance:

- Participation at 36 international and national conferences
- Organization of 1 International Conference
- Organization of 3 Summer Schools

Prizes/Honors:

- Award from prefecture of Crete (ECO CRETE) (KA: 10312)
- Award from State Scholarships Foundation (IKY) - LLP/ERASMUS (KA: 03453)
- Award FP7 (BIOSOLENUTI) (KA: 02807)
- Awards of Special Research Account of the University of Crete (EAKE) (KA:03129) and (K.A.:03746)
- Award of Life Learning Program Erasmus (IP), (K.A.:03333)
- Award of Royal Society of Chemistry for 1st European Conference
- Award of «Pythagoras» E.P.E.A.E.K II
- Award of EU for PhD in the UK
- Erasmus Award for Research work at University of Paris Sud.

Professional Affiliations:

- Member of Association of Greek Chemists
- Member of Royal Society of Chemistry (AMRSC)
- Member of the Society of Porphyrins & Phthalocyanines
- Member of the University of Liverpool

Publication List:

1. "Urea porphyrins as simple receptors for sugars", **K. Ladomenou** and R. P. Bonar-Law, *Chemical Communications*, **2002**, 2108.
2. "A strategic design to approach novel synthetic models for cytochrome c oxidase" A. G. Coutsolelos, **K. Ladomenou**, G. Charalambidis, *Journal of Porphyrin and Phthalocyanines*, **2006**, 430.
3. "A strategic approach for the synthesis of new porphyrin rings, attractive for heme model purpose" **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, *Tetrahedron*, **2007**, 2882-2887.
4. "Synthesis and studies of a super-structured porphyrin derivative-a potential building block for CcO mimic models" G. Charalambidis, **K. Ladomenou**, B. Boitrel and A. G. Coutsolelos, *Eur. J. Org. Chem.*, **2009**, 1263-1268.
5. "Spectroscopic and electrochemical studies of novel model compounds for cytochrome c oxidase" **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, *Inorganica Chimica Acta*, 363, 10, 2201-2208, **2010**.
6. "Porphyrins in Bio-inspired Transformations: Light-Harvesting to Solar Cell", Manas Panda, **Kalliopi Ladomenou**, Athanassios G. Coutsolelos, *Coordination Chemistry Reviews*, 256, **2012**, 2601– 2627.
7. "Meso substituted porphyrin derivatives via Palladium catalyzed amination showing wide range visible absorption: Synthesis and photophysical studies" **Kalliopi Ladomenou**, Theodore Lazarides, Georgios Charalambidis, Athanassios G. Coutsolelos, *Inorganic Chemistry*, **2012**, 51, 10548–10556.
8. "Synthesis, Characterization and Electronic Properties of trans-[4 (Alkoxy carbonyl)phenyl]porphyrin-[RuII(bpy)3]2 Complexes or Boron–Dipyrrin Conjugates as Panchromatic Sensitizers for DSSCs", Christina Stangel, **Kalliopi Ladomenou**, Georgios Charalambidis, Manas K. Panda, Theodore Lazarides, and Athanassios G. Coutsolelos, *Eur. J. Inorg. Chem.* **2013**, 1275–1286.
9. "CO and O2 binding studies of new model complexes for CcO", **Kalliopi Ladomenou**, Georgios Charalambidis, Athanassios G. Coutsolelos, *Polyhedron*, 54, 2013, 47–53.
10. "New hybrid materials with porphyrin-ferrocene and porphyrin-pyrene covalently linked to single-walled carbon nanotubes", Solon P. Economopoulos, Angeliki Skondra, **Kalliopi Ladomenou**, Nikolaos Karousis, Georgios Charalambidis, Athanassios G. Coutsolelos and Nikos Tagmatarchis, *RSC Adv.*, **2013**, 3, 5539-5546.
11. "The importance of various anchoring groups attached on porphyrins as potential dyes for DSSC applications", **K. Ladomenou**, T. N. Kitsopoulos, G. D. Sharma and A. G. Coutsolelos, *RSC Adv.*, **2014**, 4, 21379.
12. "Photochemical hydrogen generation with porphyrin-based systems" **Kalliopi Ladomenou**, Mirco Natali, Elisabetta Iengo, Georgios Charalampidis, Franco Scandola, Athanassios G. Coutsolelos, *Coordination Chemistry Reviews*, 304-305, **2014**, 38.

24. “Interactive effects of leaf age and inoculum concentration on downy mildew of cucumber plants and the implication of nutrients”, Anastasia A. Papadaki, **Kalliopi Ladomenou**, *SDRP Journal of Plant Science*, **2018**, (3), 1.
25. “N and K interactions in cucumber plants artificially inoculated with *P. cubensis*”, Anastasia A. Papadaki, Konstantinos Nikoloudis, **Kalliopi Ladomenou**, *SDRP Journal of Plant Science*, **2019**, (3), 1.
26. “Effect of nitrogen fertilization on cucumber downy mildew”, A. A. Papadaki, G. Markakis, **K. Ladomenou**, D. Goumas and N. Magan, *Journal of Applied Horticulture*, **2019**, 21(1), 31-36.
27. “Heavy metal accumulation in various tissues of *Raphanus sativus* grown under different ratios of organic amendments”, A. Papadaki, **K. Ladomenou**, *Acta Sci. Pol. Hortorum Cultus*, **2019**, 193–201.
28. “Ru(II) porphyrins as sensitizers for DSSCs: Axial vs. peripheral carboxylate anchoring group”, **Kalliopi Ladomenou**, Vasilis Nikolaou, Georgios Charalambidis, Ganesh D. Sharma and Athanassios G. Coutsolelos, *J. Porphyrins Phthalocyanines*, **2019**, 23, 878.
29. “Interfacial Engineering for Organic and Perovskite Solar Cells using Molecular Materials”, Anastasia Soultati, Apostolis Verykios, Konstantina-Kalliopi Armadorou, Marinos Tountas, Veroniki Vidali, **Kalliopi Ladomenou**, Leonidas Palilis, Dimitris Davazoglou, Athanassios G. Coutsolelos, Panagiotis Argitis, Maria Vasilopoulou, *Journal of Physics D: Applied Physics*, **2020**, 53 263001.
30. “Carbon dots for photocatalytic H₂ production in aqueous media with molecular Co catalysts”, **Kalliopi Ladomenou**, Giorgos Landrou, Georgios Charalambidis, Emmanouil Nikoloudakis, Athanassios G. Coutsolelos, **2021**, *Sustainable Energy Fuels*, 5, 449.
31. "Controlling Solar Hydrogen Production by Organizing Porphyrins", Vasilis Nikolaou, Georgios Charalambidis, **Kalliopi Ladomenou**, Emmanouil Nikoloudakis, Charalambos Drivas, Ioannis Vamvasakis, Stylianos Panagiotakis, Georgios Landrou, Eleni Agapaki, Christina Stangel, Christian Henkel, Jan Joseph, Gerasimos Armatas, Maria Vasilopoulou, Stella Kennou, Dirk M. Guldi, and Athanassios G. Coutsolelos, **2021**, *ChemSusChem*, 13, 1 – 11.
32. “Nickel complexes and carbon dots for efficient light-driven hydrogen production”, **Kalliopi Ladomenou**, Michael Papadakis, Georgios Landrou, Michel Giorgi, Charalambos Drivas, Stella Kennou, Renaud Hardré, Julien Massin, Athanassios G. Coutsolelos, Maylis Orio, *EurJIC*, **2021**, 3097-3103.
33. “Shape-dependent photocatalytic H₂ production photosensitized by different self-assembled forms of a zinc(II) porphyrin”. Emmanouil Orfanos, **Kalliopi Ladomenou**, Panagiotis Angaridis, Athanassios G. Coutsolelos, *Dalton Trans.*, **2022**, 51, 8009.
34. “Core-shell carbon-polymer quantum dot passivation for near infrared perovskite light emitting diodes”, Marinos Tountas, Anastasia Soultati, Konstantina-Kalliopi Armadorou, **Kalliopi Ladomenou**, Georgios Landrou, Apostolis Verykios, Maria-Christina Skoulidikou, Stylianos Panagiotakis, Petros-Panagis Fillipatos, Konstantina Yanakkopoulou, Alexander

- ChronEOS, Leonidas C. Palilis, Abd. Rashid Bin Mohd Yusoff, Athanassios G. Coutsolelos, Panagiotis Argitis, Maria Vasilopoulou, **2022**, *J. Phys. Photonics*, DOI: 10.1088/2515-7647/ac79e9.
35. "Porphyrins and phthalocyanines as biomimetic tools for photocatalytic H₂ production and CO₂ reduction", Emmanouil Nikoloudakis, Ismael López-Duarte, Georgios Charalambidis, **Kalliopi Ladomenou**, Mine Ince, Athanassios G. Coutsolelos, *Chem. Soc. Rev.*, **2022**, 51, 6965. DOI: 10.1039/d2cs00183g.
 36. "A stable platinum porphyrin based photocatalyst for hydrogen production under visible light in water", Emmanuil Orfanos, **Kalliopi Ladomenou**, Panagiotis Angaridis, Theodoros Papadopoulos, Georgios Charalambidis, Maria Vasilopoulou and Athanassios G. Coutsolelos, *Sustainable Energy Fuels*, **2022**, 6, 5072-5076. DOI: 10.1039/D2SE01105K.
 37. "Carbon Nanodots as Electron Transport Materials in Organic Light Emitting Diodes and Solar Cells", Zoi Georgiopoulou, Apostolis Verykios, **Kalliopi Ladomenou**, Katerina Maskanaki, Georgios Chatzigiannakis, Konstantina-Kalliopi Armadorou, Leonidas C. Palilis, Alexander ChronEOS, Evangelos K. Evangelou, Spiros Gardelis, Abd. Rashid bin Mohd Yusoff, Athanassios G. Coutsolelos, Konstantinos Aidinis, Maria Vasilopoulou, and Anastasia Soultati, *Nanomaterials*, **2023**, 13, 169. DOI: 10.3390/nano13010169.
 38. "Efficient Solar Hydrogen Production of Zinc Trimesityl Porphyrin Based Photocatalysts", Eleni Agapaki, **Kalliopi Ladomenou**, Vasilis Nikolaou, Athanassios G. Coutsolelos. *J. Porphyrins Phthalocyanines*, **2023**, 27, 479 DOI: 10.1142/S1088424623500207.
 39. "Light-induced hydrogen production from water using nickel(II) catalysts and N-doped carbon-dot photosensitizers: catalytic efficiency enhancement by increase of catalyst nuclearity", Dimitra K. Gioftsidou, Georgios Landrou, Charikleia Tzatzas, Antonios Hatzidimitriou, Emmanouil Orfanos, Georgios Charalambidis, **Kalliopi Ladomenou**, Athanassios G. Coutsolelos and Panagiotis A. Angaridis *Dalton Trans*, **2023**, 52, 9809 DOI: 10.1039/d3dt01052j.
 40. "A series of cobalt bis(thiosemicarbazone) catalysts for effective photocatalytic hydrogen evolution reaction", Michael Papadakis, Georgios Landrou, Marie Poisson, Léa Delmotte, Katerina Achilleos, Sylvain Bertaina, Renaud Hardré, **Kalliopi Ladomenou**, Athanassios G. Coutsolelos and Maylis Orio *Eur. J. Inorg. Chem.*, **2023**, 1 DOI: 10.1002/ejic.202300352.
 41. "Highly efficient light-driven hydrogen evolution utilizing porphyrin-based nanoparticles", Vasilis Nikolaou, Eleni Agapaki, Emmanouil Nikoloudakis, Katerina Achilleos, **Kalliopi Ladomenou**, Georgios Charalambidis, Evitina Triantafyllou and Athanassios G. Coutsolelos *Chem. Commun.*, **2023**, 59, 11256 DOI: 10.1039/d3cc02922k.
 42. "Adsorption and photocatalytic applications of porphyrin-based materials for environmental separation processes: A review", Despina A. Gkika, **Kalliopi Ladomenou**, Mohamed Bououdina, Athanasios C. Mitropoulos, George Z. Kyzas *Science of The Total Environment*, **2024**, 908, 168293 DOI: 10.1016/j.scitotenv.2023.168293.
 43. "Porphyrins-valuable pigments of life". Vasilis Nikolaou, Emmanouil Nikoloudakis, **Kalliopi Ladomenou***, Georgios Charalambidis*, Athanassios G. Coutsolelos *Front. Chem. Biol.*,

- 2024, DOI:10.3389/fchbi.2023.1346465. “Anti-Inflammatory and Antithrombotic Potential of Metal-Based Complexes and Porphyrins”, Alexandros Tsoupras, Sofia Pafli, Charilaos Stylianoudakis, **Kalliopi Ladomenou**, Constantinos A. Demopoulos and Athanassios Philippopoulos, *Compounds*, **2024**, 4, 376–400 DOI: 10.3390/compounds4020023.
44. “Anti-Inflammatory and Antithrombotic Potential of Metal-Based Complexes and Porphyrins”, Alexandros Tsoupras, Sofia Pafli, Charilaos Stylianoudakis, **Kalliopi Ladomenou**, Constantinos A. Demopoulos and Athanassios Philippopoulos, *Compounds*, **2024**, 4, 376–400 DOI: 10.3390/compounds4020023.
 45. “Graphene adsorbents and photocatalysts derived from agricultural wastes: A review”, Konstantinos N. Maroulas, Aristi Karakotsou, Stavros G. Pouloupoulos, Ioannis Konstantinou, **Kalliopi Ladomenou**, Geore Z. Kyzas, *Sustainable Chemistry for the Environment*, **2024**, 100166. DOI: 10.1016/j.scenv.2024.100166.
 46. “Removal of Ibuprofen from Wastewaters by Aluminum Modified Hybrid Porous Activated Carbon Derived From Coconut Shells” Athanasia K. Tolkou, Natalia Malouchi, Ramonna I. Kosheleva, Pavlos Efthymiopoulos, **Kalliopi Ladomenou**, Michail Chalaris, Athanasios C. Mitropoulos, Ioannis A. Katsoyiannis, George Z. Kyzas, *Proceedings of the 10th World Congress on New Technologies (NewTech'24) Barcelona, Spain - August 25-27, 2024*, Paper No. ICEPR 125 DOI: 10.11159/icepr24.125.
 47. “Water-soluble photocatalysts based on porphyrin carbon dot conjugates produce H₂ under visible light irradiation”, Katerina Achilleos, Anna Katsari, Emmanouil Nikoloudakis, Foteini Chatzipetri, Dimitris Tsikritzis, **Kalliopi Ladomenou**,* Georgios Charalambidis, Emmanuel Stratakis and Athanassios G. Coutsolelos, *Dalton Trans.*, **2025**, 54, 328 DOI: 10.1039/d4dt02101k.
 48. “Photocatalytic degradation of veterinary antibiotics in wastewaters: A review”. Christina Nannou, Konstantinos N. Maroulas, Christina Tsamtzidou, **Kalliopi Ladomenou**, George Z. Kyzas *Science of the Total Environment*, **2025**, 966, 178765 DOI: 10.1016/j.scitotenv.2025.178765.
 49. “Metalloporphyrins in Bio-Inspired Photocatalytic Conversions”, Asterios Charisiadis, Vasilis Nikolaou, Emmanouil Nikoloudakis, **Kalliopi Ladomenou**,* Georgios Charalambidis and Athanassios G. Coutsolelos, *Chem. Commun.*, **2025**, 61, 4630-4646.
 50. “Exploring Metal- and Porphyrin-Modified TiO₂-Based Photocatalysts for Efficient and Sustainable Hydrogen Production”, Dimitrios Rafail Bitsos, Apostolos Salepis, Emmanouil Orfanos, Athanassios C. Mitropoulos and **Kalliopi Ladomenou***, *Inorganics*, **2025**, 13 (4), 121; Cover.
 51. “Intelligent agent orchestration for climateresilient energy systems: autonomous management of renewable integration and distributed resources”, Kalliopi Kravari, Maria Roussi, **Kalliopi Ladomenou**, Anna Thysiadou and Michail Chalaris, *E3S Web of Conferences* 638, 02009, **2025**.
 52. “Functional characterization of hybrid porphyrin–carbon dot nanostructures for optimized photocatalytic performance”, Evangelia Banta, Christina Kampouri, **Kalliopi Ladomenou***,

Kalliopi Kravari, Maria Roussi, Anna Thysiadou and Michail Chalaris, E3S Web of Conferences 638, 03006, **2025**.

53. “Synergistic effect of porphyrin and NiO in chitosan/graphene oxide aerogels for enhanced photocatalytic degradation of cationic and anionic dyes”, Angelos Faraos, Konstantinos N. Maroulas, Emmanouil Nikoloudakis, Charalampos Drivas, Mark A. Isaacs, George Z. Kyzas and **Kalliopi Ladomenou***, RSC Advances, **2025**, 15,27685–27699.
54. “Intelligent Agent-Based Control of Distributed Sensor Networks for Environmental Monitoring and Disaster Prediction”, Kalliopi Kravari, Maria Roussi, **Kalliopi Ladomenou**, Anna Thysiadou and Michail Chalaris, Eng. Proc. **2025**, 104, 38.
55. “TiO₂ modified with green apple peel derived carbon dots for anionic and cationic dye removal.”, Sofia Pafli, Christina-Konstantina Tsamtzidou, Dimitrios Rafail Bitsos, Konstantinos N. Maroulas, George Z. Kyzas, **Kalliopi Ladomenou,*** CLEAN - Soil, Air, Water, **2025**, accepted.
56. “Doped biopolymer composites for engineered water purification: Mechanistic insights into multi-ion adsorption”, Konstantinos N. Maroulas, Athanasia K. Tolkou, **Kalliopi Ladomenou**, Charalampos Drivas, Mark A. Isaacs, Spyridon Ntougia, Ioannis A. Katsoyiannis, George Z. Kyzas, Industrial & Engineering Chemistry Research, **2025**, accepted.

Conference List:

1. **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, 1st Symposium of Organic Synthesis, 4-6 November 2004, Athens. “Synthesis of porphyrins as model compounds for cytochrome c oxidase”. (**Poster**)
2. G. Coutsolelos, **K. Ladomenou**, G. Charalambidis, 1st European Conference on Chemistry for Life Sciences, 4-8, October, 2005, Rimini, Italy. “Synthesis of new porphyrin derivatives as model compounds for cytochrome c oxidase”. (**Poster**)
3. **K. Ladomenou**, 11o Hellenic Chemistry Conference of Postgraduate students, July 2005, Kolimpari, Chania. (**Oral Presentation**)
4. **K. Ladomenou**, 12o Hellenic Chemistry Conference of Postgraduate students, July 2006, Santorini. (**Oral Presentation**)
5. G. Coutsolelos, G. Charalambidis, **K. Ladomenou**, 4th International Conference on Porphyrins and Phthalocyanines, 2-7 July, 2006, Rome, Italy. “A strategic design to approach novel synthetic models for Cytochrome c Oxidase”. (**Poster**)
6. **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, 1o European Conference of Chemistry 27-31 August 2006, Budapest, Hungary. “Novel synthetic models for cytochrome c oxidase”. (**Poster**)
7. **K. Ladomenou**, “The Wine at the nutrition of the future” Scientific Conference, Traditional Cretan Diet and Health, Technological Educational Institute of Crete (T.E.I.), Heraklion, 2007. (**Oral Presentation**)

8. G. Coutsolelos, G. Charalambidis, **K. Ladomenou**, 10th International Meeting in Inorganic Chemistry, 1-4 July 2009, Palermo, Italy, "Design and synthesis of super-structured porphyrin as building blocks for new materials, studies and applications". (**Poster**)
9. **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, 10th Chemistry Conference Greece-Cyprus 02-04 July 2009, Heraklion, "Electrochemical and spectroscopic studies of novel compounds-models of cytochrome c oxidase". (**Oral Presentation**)
10. **K. Ladomenou**, G. Charalambidis, A. G. Coutsolelos, 16th European Symposium on Organic Chemistry, 12-16 July 2009, Prague, Czech Republic, "Electrochemical and spectroscopic studies of novel model compounds for cytochrome c oxidase". (**Poster**)
11. Athanassios G. Coutsolelos, Galatea E. Zervaki, Georgia Pagona, Georgios Charalambidis, **Kalliopi Ladomenou**, Nikos Tagmatarchis, 25th European Photovoltaic Solar Energy Conference and Exhibition, 6-17 September 2010, Valencia, Spain, "Synthesis of novel porphyrin dimers for photovoltaic applications". (**Poster**)
12. **Kalliopi Ladomenou**, Georgios Charalambidis, Galatea E. Zervaki, Georgia Pagona, Nikos Tagmatarchis, Athanassios G. Coutsolelos, Sixth International Conference on Porphyrins and Phthalocyanines, July 4-9, 2010, New Mexico, USA, "Novel hybrid materials based on porphyrin dimers for photovoltaic applications". (**Poster**)
13. Athanassios G. Coutsolelos, **Kalliopi Ladomenou**, Georgios Charalambidis, Galatea E. Zervaki, T. Lazarides, D. Daphnomili, 10th European Biological Inorganic Chemistry Conference, June 22-26, 2010, Thessaloniki, Greece, "Bio inspired derivatives for solar energy utilization." (**Poster**)
14. G. Coutsolelos, **K. Ladomenou**, G. Charalambidis, G. E. Zervaki, T. Lazarides, D. Daphnomili, WIRE: Week of Innovative Regions in Europe, 15-17 March 2010, Granada, Spain. (**Poster**)
15. **Kalliopi Ladomenou**, Georgios Charalambidis, Dimitra Daphnomili, Athanassios G. Coutsolelos, «Synthesis of novel porphyrin sensitizers for solar cell applications» 2011, Manchester, UK. (**Poster**)
16. **Kalliopi Ladomenou**, Georgios Charalambidis, Dimitra Daphnomili, Athanassios G. Coutsolelos, «Synthesis of porphyrin-based sensitizers for solar cell applications», First International Conference on Bioinspired Materials for Solar Energy Utilization, BIOSOL2011, 12-17, September, 2011, Chania, Crete. (**Oral Presentation**)
17. **Kalliopi Ladomenou**, Theodore Lazarides, Georgios Charalambidis and Athanassios G. Coutsolelos, «Peripherally substituted porphyrin derivatives showing wide range visible absorption: Synthesis and photophysical studies», Inorganic Photochemistry and Photochemistry: Fundamentals and Applications: Dalton Discussion 13, 10-12 September, 2012, Sheffield, UK. (**Poster**)
18. **Kalliopi Ladomenou**, Theodore Lazarides, Georgios Charalambidis and Athanassios G. Coutsolelos, «Peripherally substituted porphyrin derivatives showing wide range visible absorption: Synthesis and photophysical studies», Seventh International Conference on Porphyrins and Phthalocyanines, ICPP-7, July 1-6, 2012, Jeju, KOREA. (**Poster**)

19. **K. Ladomenou**, A.G. Coutsolelos, G. Charalambidis, D. Daphnomili, C. Stangel, G. Zervaki, P. Aggaridis, A. Petrou, P. Nova, A. Apostolopoulou, V. Papastamatakis, K. Karikis, T. Lazarides, V. Nikolaou, «Synthesis and properties of new super structured chromophores based on porphyrin rings», 223th ECS Meeting May 12-16, 2013, Toronto, Canada. **(Poster)**
20. **Kalliopi Ladomenou**, Vasilis Nikolaou, Athanasia Nikolaou, Georgios Charalambidis, Panagiotis A. Angaridis, A.G. Coutsolelos, «Synthesis of new photosensitizers via click chemistry», Eighth International Conference on Porphyrins and Phthalocyanines (ICPP-8) June 22-27, 2014, Istanbul. **(Poster)**
21. A. Παπαδάκη, **K. Λαδωμένου**, «Επίδραση της καλιούχου λίπανσης στην ανάπτυξη του *Pseudoperonospora cubensis* σε καλλιέργεια αγγουριάς (*Cucumis sativus*, var. Knossos)», 28ο Συνέδριο της Ελληνικής Εταιρείας της Επιστήμης των Οπωροκηπευτικών, 16-20 Οκτωβρίου 2017, Θεσσαλονίκη. **(Poster)**
22. **Kalliopi Ladomenou**, Georgios Landrou, Georgios Charalambidis, Emmanouil Nikoloudakis, Athanassios G. Coutsolelos, “Carbon dots for photocatalytic H₂ production in aqueous media with molecular Co catalysts”, ACS Meeting 2021, 5-16 April 2021, USA, Virtual Conference. **(Oral Presentation)**
23. Vasilis Nikolaou, Georgios Charalambidis, **Kalliopi Ladomenou**, Emmanouil Nikoloudakis, Charalambos Drivas, Ioannis Vamvasakis, Stylianos Panagiotakis, Georgios Landrou, Eleni Agapaki, Christina Stangel, Christian Henkel, Jan Joseph, Gerasimos Armatas, Maria Vasilopoulou, Stella Kennou, Dirk M. Guldi, Athanassios G. Coutsolelos, “Controlling solar hydrogen production by organizing porphyrins”, 11th International Conference on Porphyrins and Phthalocyanines (ICPP-11), 28 June – 3 July 2021, USA, Virtual Meeting. **(Poster)**
24. **Kalliopi Ladomenou**, Georgios Landrou, Emmanouil Orphanos, Athanassios G. Coutsolelos, “Light-driven H₂ production in aqueous media using carbon dots and molecular Co catalysts”, 11th International Conference on Porphyrins and Phthalocyanines (ICPP-11), 28 June – 3 July 2021, USA, Virtual Meeting. **(Poster)**
25. Emmanouil Orphanos, **Kalliopi Ladomenou**, Athanassios G. Coutsolelos, “Shape dependent photocatalytic H₂ evolution of a zinc porphyrin”, International solar fuels conference 2021, 26-29 July 2021, United Kingdom, Virtual Meeting. **(Poster)**
26. Michael Papadakis, Kalliopi Ladomenou, Georgios Landrou, Julien Massin, Renaud Hardre, Athanassios G. Coutsolelos, Maylis Orio, “Nickel complexes and carbon dots for efficient light-driven hydrogen production”, International solar fuels conference 2021, 26-29 July 2021, United Kingdom, Virtual Meeting. **(Poster)**
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36. K.N. Maroulas, A.K. Tolkou, P. Efthymiopoulos, **K. Ladomenou**, Z.S. Metaxa, M. Chalaris, A.C. Mitropoulos, S. Ntougias, I.A. Katsoyiannis, G.Z. Kyzas, “Chitosan/curcumin/activated carbon nanoadsorbents for the removal of hexavalent chromium from wastewaters”, intelWATT Workshop on European leadership in action: Enabling technologies to boost freshwater preservation, Birmingham, United Kingdom, 22-23 February 2024. **(Poster)**
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40. Evangelia Kyriazi, Charikleia Malerou, Vasiliki Rammou, Artemis Sparaggi, **Kalliopi Ladomenou**, Synthesis and Studies of Green Carbon Dots from Oranges as Sensors for Fast Monitoring the Polarity of Solvents, 23rd Panhellenic Chemistry Conference, 25-26 September 2024, National and Kapodistrian University of Athens Central Building, Athens. **(Flash Oral Presentation)**
41. Sofoklis Chouliaras, Sotiria Eginloglou, Makrina Katsanopoulou, Christina Konstantina Tsamtzidou, **Kalliopi Ladomenou**, Development of a Hybrid Water-Soluble Porphyrin-Carbon Dot Material as Phototherapeutic Agent 23rd Panhellenic Chemistry Conference, 25-26 September 2024, National and Kapodistrian University of Athens Central Building, Athens. **(Poster)**
42. **Kalliopi Ladomenou**, Advanced hybrid porphyrin-based photocatalytic systems for H₂ production and pollutant removal, GreenMat Project Workshop (TAEDR-0535821) – Flagship Action “Advanced Materials for Sustainable Development: Green Energy Production and Storage, Energy Efficiency, and Anti-pollution Applications.” Thursday 28 & Friday 29 November 2024, University of Ioannina, Greece. **(Oral Presentation)**.
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45. Charilaos Stylianoudakis, Evangelia Banta, Aggelos Faraos, **Kalliopi Ladomenou**, “Axially Coordinated Curcumin–Tin Porphyrin Complex: A Potential Antibacterial Agent”, 20th Hellenic Symposium on Medicinal Chemistry, 3-5 April 2025, University of Ioannina, Greece. **(Poster)**
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