Panagiotakis Stylianos

Personal Information

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PhD candidate at Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Aghia Paraskevi, Attiki, Greece.

Academic Background

- **2018-Present : PhD in Chemistry**. Institute Nanoscience & Nanomaterials NCSR "Demokritos" and Department of Chemistry, University of Crete, Greece. **PhD Thesis title:** *"Photoactive cyclodextrin derivatives as drug delivery systems."*, Supervisors: K. Yannakopoulou and A.G. Coutsolelos.
- **2016-2018: Master thesis in Inorganic Chemistry**. Department of Chemistry, University of Crete, V **Master Thesis title:** "*Synthesis and study of porphyrin derivatives and Nickel complexes for light-driven H_2 evolution as well as DSSCs.*" Supervisor: A.G. Coutsolelos.
- **2012-2016: Bachelor degree in Chemistry.** Department of Chemistry, University of Crete,

Technical skills

Design, synthesis, purification and characterization of chromophores, cyclodextrin derivatives and drug derivatives.

Synthesis under anaerobic conditions. Catalysis and photocatalysis. 1-D & 2-D NMR, UV-Visible, Fluorescence, FT-IR, spectroscopies, GC-MS, MALDI-TOF MS spectrometry, Electrochemistry and X-Ray. Word, Excel, PowerPoint, Access, Windows, and Internet applications. ChemBioOffice, Chem3D, EndNote, Origin, Chemcraft and Avogadro software. Basic knowledge of Molecular Mechanics (MM) and density functional theory (DFT) calculations (Gaussian, Unix commands)

Honours and Awards

Participation in scientific research program << EuroNanoMed2>> (2018-2021).
Scholarship of charitable foundation <<Vardinoyianneio>> (2013-2014), (2014-2015) & (2015-2016).

Publications in international peer-reviewed journals

1) Verykios A.; Soultati A.; Tourlouki K.; Katsogridakis C.; Chochos C.; Alexandropoulos D.; Vidali V.; Panagiotakis S.; Yannakopoulou K.; Dimotikali K.; Fakis M.; Palilis L. C.; Stathopoulos N.; Pistolis G.; Skandamis P.; Argitis P.; Vasilopoulou M. ***"Commercially available chromophores as low-cost efficient electron injection layers for organic light emitting diodes"*** , *J. Phys. D: App. Phys.*, **2022,** accepted. (**I. F.: 3.207**)

2) Glymenaki E.; Kandyli M.; Apostolidou C.; Kokotidou C.; Charalambidis G.; Nikoloudakis E.; Panagiotakis S.; Koutserinaki E.; Klontza V.; Michail P.; Charisiadis A.; Yannakopoulou K.; Mitraki A.; Coutsolelos A. G. *"**Design and synthesis of porphyrin-nitrilotriacetic acid dyads with potential application in peptide labeling through metallochelate coupling**" ACS Omega*, **2022**, 7(2), 1803-1818. (**I. F.: 3.512**)

3) Panagiotakis S.; Saridakis E.; Malanga M.; Mavridis I. M.; Yannakopoulou K. *"**A Self-Locked β-Cyclodextrin-Rhodamine B Spirolactam Conjugate with Photoswitching Properties**" Chem. Asian J.*, **2022**, 17(2), e202101282. (**I. F.: 4.568**)

4) Panagiotakis S.; Mavroidi B.; Athanasopoulos A.; Charalambidis G.; Coutsolelos A. G.; Paravatou-Petsotas M.; Pelecanou M.; Mavridis I. M.; Yannakopoulou K.; *"**Unsymmetrical, monocarboxyalkyl meso-arylporphyrins in the photokilling of breast cancer cells using permethyl-β-cyclodextrin as sequestrant and cell uptake modulator**" Carbohydrate Polymers,* **2022**, 275, 118666 (**I. F.: 9.381**)

5) Nikolaou V.; Charalambidis G.; Ladomenou K.; Nikoloudakis E.; Drivas C.; Vamvasakis I.; Panagiotakis S.; Landrou G.; Agapaki E.; Stangel C.; Henkel C.; Joseph J.; Armatas G.; Vasilopoulou M.; Kennou S.; Guldi D. M.; Coutsolelos G. A. "***Controlling Solar Hydrogen Production by Organizing Porphyrins***" *ChemSusChem*, **2021**, 14(3), pp. 961–970 (**I. F.: 8.928**)

6) Soultati A,; Verykios A.; Panagiotakis S.; Armadorou K.-K.; Haider M. –I.; Kaltzoglou A.; Drivas C.; Fakharuddin A.; Bao X.; Yang C.; Yussof A. -R. -M.; Enangelou E.-K.; Petsalakis I.; Kennou S.; Falaras P.; Yannakopoulou K.; Pistolis G.; Argitis P.; Vasilopoulou M. " ***Supressing the Photocatalytic Activity of Zinc Oxide Electron-Transport Layer in Nonfullerene Organic Solar Cell with a Pyrene-Bodipy Interlayer***" *ACS Appl. Mater. Interfaces*, **2020**, 12, 19, 21961-21973. (**I. F.: 9.229**)

7) Giannoudis E.; Benazzi E.; Copley G.; Panagiotakis S.; Landrou G.; Angaridis P.; Nikolaou V.; Charalambidis G.; Matthaiakaki C.; Gibson A. E.; Coutsolelos G. A. **"*Photosensitizers for H_2 evolution based on charged or neutral Zn and Sn porphyrins."*** *Inorg. Chem.*, **2020**, 59, 3, 1611-1621. (**I. F.: 5.165**)

8) Panagiotakis S.; Landrou G.; Nikolaou V.; Putri A.; Hardré R.; Massin J.; Charalambidis G.; Coutsolelos G. A.; Orio M. **"*Efficient light-driven Hydrogen evolution using a Thiosemicarbazone-Nickel (II) complex."*** *Front. Chem.*, **2019**, 7, 405. (**I. F.: 5.221**)

9) Panagiotakis S.;‡ Giannoudis E.;‡ Charisiadis A.; Paravatou R; Lazaridi M.-E.; Kandyli M; Ladomenou K; Angaridis A. P; Bertrand C. H.; Sharma D. G.; Coutsolelos G. A. ***''Increased Efficiency of Dye-Sensitized Solar Cells by Incorporation of a π Spacer in Donor–Acceptor Zinc Porphyrins Bearing Cyanoacrylic Acid as an Anchoring Group.''*** *Eur. J. Inorg. Chem.* **2018**, *20-21*, 2369-2379. (**I. F.: 2.524**)
‡These authors have equally contributed.

Manuscripts under review

10) Soultati A.; Nunzi F.; Fakharuddin A.; Verykios A.; Armadorou K.; Tountas M.; Panagiotakis S.; Polydorou E.; Charisiadis A.; Vasilis Nikolaou, Papadakis M.; Charalabidis G.; Nikoloudakis E.; Yanakopoulou K.; Bao X.; Yang C.; Dunbar A. D. F.; Kymakis E.; Palilis L. C.; Yusoff A. R. B. M.; Argitis P.; Coutsolelos A. G.; De Angelis F.; Nazeeruddin M. K.; Vasilopoulou M. "***Functionalized BODIPYs as tailor-made and universal interlayers for efficient and stable organic and perovskite solar cells***" **2021**, submitted.

Conferences and Citations

There are 7 poster presentations of total 11 participations in international and national conferences
Citations: total 56 (Google Scholar, 02/2022).