

Georgios Charalambidis

Publications (September 2023)

A. Peer-Reviewed Referred Journals

1. V. Nikolaou, E. Agapaki, E. Nikoloudakis, K. Achilleos, K. Ladomenou, G. Charalambidis, E. Triantafyllou, A. G. Coutsolelos, "Highly efficient light-driven hydrogen evolution utilizing porphyrin-based nanoparticles", *Chemical Communications*, **2023**, 59, 11256-11259. [[Link](#)]
2. V. Nikolaou, J. W. Wood, G. Charalambidis, A. Coutsolelos, E. Stulz, "Post-synthetic DNA modification with porphyrins for DNA-templated supramolecular assemblies", *Journal of Porphyrins and Phthalocyanines*, **2023**, 27, 1330-785. [[Link](#)]
3. D. K. Gioftsidou, G. Landrou, C. Tzatzta, A. Hatzidimitriou, E. Orfanos, G. Charalambidis, K. Ladomenou, A. G. Coutsolelos, P. A. Angaridis, "Light-induced hydrogen production from water using nickel(II) catalysts and N-doped carbon-dot photosensitizers: catalytic efficiency enhancement by increase of catalyst nuclearity", *Dalton Transactions*, **2023**, 52, 9809-9822. [[Link](#)]
4. A. Stoumpidi, A. Trapali, M. Poisson, A. Barrozo, S. Bertaina, M. Orio, G. Charalambidis, A. G. Coutsolelos, "Highly Efficient Light-Driven CO₂ to CO Reduction by an Appropriately Decorated Iron Porphyrin Molecular Catalyst", *ChemCatChem*, **2023**, 15, e202200856. [[Link](#)]
5. I. A. Dontas, P. Lelovas, S. Parara, A. Galanos, G. Agrogiannis, D. Goutas, G. Charalambidis, V. Nikolaou, G. Landrou, C. Kokotidou, C. P. Apostolidou, A. Mitraki, A. G. Coutsolelos, "Delivery of Porphyrins Through Self-Assembling Peptide Hydrogels for Accelerated Healing of Experimental Skin Defects In Vivo", *Cureus*, **2023**, 15, e39120. [[Link](#)]
6. S. Panagiotakis, B. Mavroidi, A. Athanasopoulos, A. R. Gonçalves, L. Bugnicourt-Moreira, T. Regagnon, N. Boukos, G. Charalambidis, A. G. Coutsolelos, M. Grigalavicius, T. A. Theodossiou, K. Berg, C. Ladavière, M. Pelecanou, K. Yannakopoulou, "Small anticancer drug release by light: Photochemical internalization of porphyrin- β -cyclodextrin nanoparticles", *Carbohydrate Polymers*, **2023**, 306, Art. No. 120579. [[Link](#)]
7. E. Orfanos, K. Ladomenou, P. A. Angaridis, T. Papadopoulos, G. Charalambidis, M. Vasilopoulou, A. G. Coutsolelos, "A stable platinum porphyrin based photocatalyst for hydrogen production under visible light in water", *Sustainable Energy & Fuels*, **2022**, 6, 5072-5076. [[Link](#)]
8. E. Nikoloudakis, I. López-Duarte, G. Charalambidis, K. Ladomenou, M. Ince, A. G. Coutsolelos, "Porphyrins and phthalocyanines as biomimetic tools for photocatalytic H₂ production and CO₂ reduction", *Chemical Society Reviews*, **2022**, 51, 6965-7045. [[Link](#)]
9. I. K. Sideri, G. Charalambidis, A. G. Coutsolelos, R. Arenal, N. Tagmatarchis, "Pyridine vs. Imidazole Axial Ligation on Cobaloxime Grafted Graphene: Hydrogen Evolution Reaction Insights", *Nanomaterials*, **2022**, 12, Art. No. 3077. [[Link](#)]
10. A. Soultati, F. Nunzi, A. Fakhruddin, A. Verykios, K. K. Armadorou, M. Tountas, S. Panagiotakis, E. Polydorou, A. Charisiadis, V. Nikolaou, M. Papadakis, G. Charalambidis, E.

- Nikoloudakis, K. Yannakopoulou, X. Bao, C. Yang, A. D. F. Dunbar, E. Kymakis, L. C. Palilis, A. R. B. Mohd Yusoff, P. Argitis, A. G. Coutsolelos, F. De Angelis, M. K. Nazeeruddin, M. Vasilopoulou, "Functionalized BODIPYs as Tailor-Made and Universal Interlayers for Efficient and Stable Organic and Perovskite Solar Cells", *Advanced Materials Interfaces*, **2022**, 9, Art. No. 2102324. [[Link](#)]
11. J. Joseph, S. Bauroth, A. Charisiadis, G. Charalambidis, A. G. Coutsolelos, D. M. Guldi, "Cascades of energy and electron transfer in a panchromatic absorber", *Nanoscale*, **2022**, 14, 9304-9312. [[Link](#)]
 12. E. Nikoloudakis, A. Z. Alsaleh, G. Charalambidis, A. G. Coutsolelos, F. D'Souza, "A covalently linked nickel(II) porphyrin-ruthenium(II) tris(bipyridyl) dyad for efficient photocatalytic water oxidation", *Chemical Communications*, **2022**, 58, 12078-12081. [[Link](#)]
 13. A. Trapali, P. Gotico, C. Herrero, M.-H. Ha-Thi, T. Pino, W. Leibl, G. Charalambidis, A. Coutsolelos, Z. Halime, A. Aukauloo, "Imbroglia at a photoredox-iron-porphyrin catalyst dyad for the photocatalytic CO₂ reduction", *Comptes Rendus Chimie*, **2021**, 24, 101-114. [[Link](#)]
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 15. E. Glymenaki, M. Kandyli, C. P. Apostolidou, C. Kokotidou, G. Charalambidis, E. Nikoloudakis, S. Panagiotakis, E. Koutserinaki, V. Klontza, P. Michail, A. Charisiadis, K. Yannakopoulou, A. Mitraki, A. G. Coutsolelos, "Design and Synthesis of Porphyrin-Nitrilotriacetic Acid Dyads with Potential Applications in Peptide Labeling through Metallochelat Coupling", *ACS Omega*, **2022**, 7, 1803-1818. [[Link](#)]
 16. S. Panagiotakis, B. Mavroidi, A. Athanasopoulos, G. Charalambidis, A. G. Coutsolelos, M. Paravatou-Petsotas, M. Pelecanou, I. M. Mavridis, K. Yannakopoulou, "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, Art. No. 118666. [[Link](#)]
 17. P. Filippatos, A. Soultati, N. Kelaidis, C. Petaroudis, A. A. Alivisatou, C. Drivas C., S. Kennou, E. Agapaki, G. Charalambidis, A. R. Mohd Yusoff, N. N. Lathiotakis, A. G. Coutsolelos, D. Davazoglou, M. Vasilopoulou, A. Chroneos, "Preparation of hydrogen, fluorine and chlorine doped and co-doped titanium dioxide photocatalysts: a theoretical and experimental approach", *Scientific Reports*, **2021**, 11, Art. No. 5700. [[Link](#)]
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B. Book Chapters

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