Konstantinos Christoforidis is an Assistant Professor of "Environmental Chemistry – Analytical Chemistry" in the Department of Environmental Engineering at the Democritus University of Thrace since 2018 and is the head of the Environmental Chemistry Lab. He holds a degree from the department of Environmental and Natural Resources Management of the University of Ioannina and a Ph.D. Degree in Catalysis from the University of Ioannina. He worked as Senior Researcher at several institutes abroad such as Imperial College London, Institute of Catalysis and Petrochemistry (CSIC, Madrid, Spain), CNRS Strasbourg (France), University of Trieste (Italy). He has participated in more than 14 research project and is a winner of the prestigious call "Make Our Planet Great Again" from ANR (France) for a project related the development of technologies to mitigate climate change. He is the author of more than 45 articles. His research interests include: heterogeneous catalysis, photocatalysis, pollutants degradation, water splitting, CO_2 capture and conversion, development of sensors for pollutants detection, synthesis of novel nanomaterials for a variety of applications (catalysts, absorbers, sensors), depollution of aquatic environments.

Selected publications:

1. **K. C. Christoforidis**. *"g-C_3N_4/Ag_3PO_4 based binary and ternary heterojunction for improved photocatalytic removal of organic pollutants"*. International Journal of Environmental Analytical Chemistry 2021. **doi:** https://doi.org/10.1080/03067319.2021.1901282
2. I. Barba-Nieto, **K.C. Christoforidis**, M. Fernández-García, A. Kubacka. "*Promoting H_2 photoproduction of TiO_2-based materials by surface decoration with Pt nanoparticles and SnS_2 nanoplatelets"* Applied Catalysis B: Environmental 2020, *277*, 119246.
3. A. Crake, **K. C. Christoforidis**, B. Moss, A. Kafizas, S. Zafeiratos, C. Petit. *"The effect of materials architecture in TiO_2/MOF composites on CO_2 photoreduction and charge transfer"* Small 2019, *15*, 1805473.
4. **K.C. Christoforidis**, P. Fornasiero. *"Photocatalysis for hydrogen production and CO_2 reduction: The case of copper-catalysts"* ChemCatChem 2019, *11*, 368-382.
5. A. Crake, **K. C. Christoforidis**, R. Godin, B. Moss, A. Kafizas, S. Zafeiratos, J. R. Durrant, C. Petit. *"Titanium dioxide/carbon nitride nanosheet nanocomposites for gas phase CO_2 photoreduction under UV-visible irradiation"* Applied Catalysis B: Environmental 2019, *242*, 369-378.
6. I.A. Vasiliadou, R. Molina, M.I. Pariente, **K.C. Christoforidis**, F. Martinez, J.A. Melero. *"Understanding the role of mediators in the efficiency of advanced oxidation processes using white-rot fungi"* Chemical Engineering Journal 2019, *359*, 1427–1435.
7. **K.C. Christoforidis**, Z. Syrgiannis, V. La Parola, T. Montini, C. Petit, E. Stathatos, R. Godin, J.R. Durrant, M. Prato, P. Fornasiero. *"Metal-free dual-phase full organic carbon nanotubes/g-C_3N_4 heteroarchitectures for photocatalytic hydrogen production"* Nano Energy 2018, *50*, 468-478.
8. A. Crake, **K.C. Christoforidis**, A. Kafizas, S. Zafeiratos, C. Petit. *"CO_2 capture and photocatalytic reduction using bifunctional TiO_2/MOF nanocomposites under UV–vis irradiation"* Applied Catalysis B: Environmental 2017, 210, 131-140.
9. **K.C. Christoforidis**, A. Pérard, V. Keller, N. Keller. *"Single-step synthesis of SnS_2 nanosheets decorated TiO_2 anatase nanofibers as efficient photocatalysts for the degradation of gas phase diethylsulfide"* ACS Applied Materials and Interfaces 2015, 7, 19324-19334.

Selected research projects

1. **Horizon 2020**. Scheme: Research and Innovation Actions. Project: *"Novel photo-assisted systems for direct solar-driven reduction of CO_2" 2020-2023*.
2. **Make Our Planet Great Again** (MOPGA) The French National Research (ANR). *"Instant and long-term approaches for CO_2 reduction"* 2019-2024. Principal investigator (**PI: Dr. K.**

Christoforidis). CNRS Strasbourg (Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES)) – University of Strasbourg (FRANCE).