

# Alexandra Ioannidi

**Title:** Collaborative Teaching Staff (Assistant Lecturer) / Junior in Chinese system

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Alexandra Ioannidi holds a Chemical Engineering degree (M.Eng., 2016), a M.Sc. degree (2018) in Chemical Engineering (Energy and Environment), and PhD (2023) from the Department of Chemical Engineering, University of Patras, Greece (ChemEngUP). She currently is a Postdoctoral Researcher at the Laboratory of Advanced oxidation processes. She has taught Composting & Soil Organic Matter Undergraduate course in the Department of Agriculture- School of Agricultural Sciences- University of Patras, Greece.

She has served as teaching assistant in Physical Chemistry Laboratory and Biochemical Process Engineering undergraduate courses in ChemEngUP, advised a diploma thesis in the Department of Agriculture, University of Patras, co-advised more than 20 diploma theses in ChemEngUP, and 3 diploma theses in the Department of Agriculture, University of Patras. She has totally over 6 years' experience in teaching and research.

Her research field focuses on the development of new hybrid catalytic materials and processes with applications in environmental protection and energy production, with particular emphasis on solar light-assisted photocatalysis, electrochemistry, and waste valorization for the synthesis of novel catalytic materials (iron from red mud or catalytic materials from biochars).

She has published 17 articles in peer-reviewed journals (16 research paper in international peer reviewed journals and 1 review) with mean impact factor (IF) $\approx$ 8.77, h index= 9 (Google Scholar), and Citations > 362 (Google Scholar). She has more than 10 presentations in international and national conferences and workshops.

She has participated in two funded research projects (INVALOR: Research Infrastructure for Waste Valorization and Sustainable Management, and 2De4P: Development and Demonstration of a Photocatalytic Process for removing Pathogens and Pharmaceuticals) and received two prestigious fellowships from Greek State Scholarship Foundation (IKY) and Hellenic Foundation for Research and Innovation for postgraduate and doctoral studies in the development of innovative catalytic materials and systems. She is a reviewer in 7 international peer-review scientific journals. She is Guest Editor of a Special Issue (Recent Advances in Photocatalytic Wastewater Treatment) in catalysts. She is Evaluator of Grant proposal for the National Science Centre, Poland – Funding scheme OPUS.

## **Selected publications** (for complete list use the above link to Google Scholar)

1. Sonocatalytic degradation of Bisphenol A from aquatic matrices over Pd/CeO<sub>2</sub> nanoparticles: Kinetics study, transformation products, and toxicity, **Ioannidi A. A.**, Bampos G., Antonopoulou M., Oulego P., Grzegorz Boczkaj, Mantzavinos D., Frontistis Z., Science of The Total Environment 919, 170820, **2024**.
2. Peroxydisulfate activation by cerium (IV) oxide-supported palladium (Pd/CeO<sub>2</sub>) for bisphenol A oxidation and E. coli inactivation from aquatic matrices, **Ioannidi A. A.**, Bampos G., Antonopoulou M., Oulego P., Mantzavinos D., Frontistis Z., Journal of Environmental Chemical Engineering 12, 111851, **2024**.

3. Persulfate Activation Using Biochar from Pomegranate Peel for the Degradation of Antihypertensive Losartan in Water: The Effects of Pyrolysis Temperature, Operational Parameters, and a Continuous Flow Reactor, **Ioannidi A. A.**, Frigana A., Vakros J., Frontistis Z., Mantzavinos D., *Catalysts* 14, 127, **2024**.
4. Removal of drug losartan in environmental aquatic matrices by heat-activated persulfate: Kinetics, transformation products and synergistic effects, **Ioannidi A.**, Arvaniti O. S., Nika M. C., Aalizadeh R., Thomaidis N. S., Mantzavinos D., Frontistis Z., *Chemosphere*, 287, 131952, **2022**.
5. Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water, **Ioannidi A.**, Oulego P., Collado S., Petala A., Arniella V., Frontistis Z., Angelopoulos A., Mantzavinos D., *Journal of Environmental Management* 270, 110820, **2020**.
6. Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes, **Ioannidi A.**, Frontistis Z., Mantzavinos D., *Journal of Environmental Chemical Engineering*, 6, 2992-2997, **2018**.
7. Copper phosphide promoted BiVO<sub>4</sub> photocatalysts for the degradation of sulfamethoxazole in aqueous media, **Ioannidi A.**, Petala A., Frontistis Z., *Journal of Environmental Chemical Engineering* 8, 104340, **2020**.

**International Conferences** (indicative list of > 7 presentations)

1. 1<sup>st</sup> International Conference on Sustainable Chemical and Environmental Engineering, Electrosynthesis of hydrogen peroxide with carbon-based materials for the degradation of emerging contaminants, 31 Aug – 04 Sep 2022, Rethymno, Crete, Greece.
2. 1st International Conference on Environmental Design- ICED2020, Elimination of sulfamethoxazole by activated persulfate with nettle biochar, October 24-25, **2020**, Athens, Greece.
3. Protection and Restoration of the Environment, Photocatalytic performance of Cu<sub>3</sub>P/BiVO<sub>4</sub> towards antibiotics degradation in water matrices, July 7-10, **2020**, Kalamata, Greece.
4. 6th European Conference on Environmental Applications of Advanced Oxidation Processes – EAAOP6, Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water, June 26-30, **2019**, Portorose, Slovenia.
5. 5th European Conference on Environmental Applications of Advanced Oxidation Processes- EAAOP5, Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes, June 25-29, **2017**, Prague, Czechia.
6. 4th European Conference on Environmental Applications of Advanced Oxidation Processes- EAAOP4, Boron-doped diamond anodic oxidation of amoxicillin wastewater: Statistical evaluation of operating factors and antibiotic resistance, October 21-24, **2015**, Athens, Greece.