Eleni Gkrilla

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

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# Eleni Grilla graduated from the Department of Environmental Engineering, Technical University of Crete (TUC), Greece in 2014. She holds a PhD (2021) and an MSc (2016) from the Department of Chemical Engineering, University of Patras (ChemEngUP) and she currently is a Postdoctoral Researcher at the Laboratory of Sustainable Waste Management and Technologies. She has served as a teaching assistant in *Organic Chemistry*, *Instrumental Chemical Analysis* and *Chemical Engineering Process Laboratory II* undergraduate courses in ChemEngUP, and co-advised over seven (7) diploma theses in University of Patras and four (4) at the Hellenic Open University as a Consultant Educational Assistant. She has also served as an Assistant Lecturer in the Agricultural Residues and Waste Management in the Department of Agriculture at the University of Patras. She has totally over 4 years’ experience in teaching and research.

# Her expertise covers the scientific field of Waste Management, with a specialty in the use of advanced oxidation processes for the degradation of micropollutants in the aquatic environment as well as in the valorization of agro-waste into value added products for sustainable development. Her technical skills include catalyst characterization techniques, such as BET, TEM, SEM, XRD, and analytical techniques, such as High-Performance Liquid Chromatography, Liquid chromatography–mass spectrometry (LC-MS/MS). These techniques are used to determine the physicochemical characteristics of catalysts and to quantify each separated component.

# She participates as post-doc researcher in the “Greece 4.0” project in the frame Greece and the European Union from the National Recovery and Resilience Plan Greece 2.0 and participated in over 4 other funded research projects. She has authored and co-authored 11 papers in international peer-reviewed journals (citation index: 195, h-index: 6, Scopus/16-06-2024). She has 10 presentations at international and national conferences and workshops.

# JOURNAL PUBLICATIONS

1. Eleni Grilla, Athanasia Petala, Zacharias Frontistis, Ioannis K. Konstantinou, Dimitris I. Kondarides, Dionissios Mantzavinos, Solar photocatalytic abatement of sulfamethoxazole over Ag3PO4/WO3 composites, Applied Catalysis B: Environmental 231 (2018) 73-81.
2. Eleni Grilla, Vasiliki Matthaiou, Zacharias Frontistis, Isabel Oller, Inmaculada Polo, Sixto Malato, Dionissios Mantzavinos, Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO2 and persulfate: A pilot plant study, Catalysis Today 328 (2019) 216-222.
3. Amabille P. Kloc, Eleni Grilla, Claudia A. Capeletto, Maria Papadaki, Marcos L. Corazza, Phase equilibrium measurements and thermodynamic modeling of {CO2 + diethyl succinate+cosolvent} systems, Fluid Phase Equilibria 502 (2019) 112-285.
4. Eleni Grilla, John Vakros, Ioannis K. Konstantinou, Ioannis D. Manariotis, Dionissios Mantzavinos, Activation of persulfate by biochar from spent malt rootlets for the degradation of trimethoprim in the presence of inorganic ions, Journal of Chemical Technology and Biotechnology 95 (2020) 2348-2358.
5. Spyridon Karamoutsos, Theofani V. Tzevelekou, Angeliki Christogerou, Eleni Grilla, Antonios Gypakis, Luis Perez Villarejo, Dionissios Mantzavinos, George N. Angelopoulos, On the industrial symbiosis of alumina and iron/steel production: Suitability of ferroalumina as raw material in iron and steel making, Waste Management & Research (2021).
6. Eleni Grilla, Maria-Nefeli Kagialari, Athanasia Petala, Zacharias Frontistis, Dionissios Mantzavinos, Photocatalytic degradation of valsartan by MoS2/BiOCl heterojunctions, Catalysts 11 (2021) 650.
7. Eleni Grilla, Mir Edris Taheri, Kleopatra Miserli, Danae Venieri, Ioannis Konstantinou, Dionissios Mantzavinos, Degradation of dexamethasone in water using BDD anodic oxidation and persulfate: reaction kinetics and pathways, Journal of Chemical Technology and Biotechnology 96 (2021) 2451-2460.
8. V. Faka, M. Griniezaki, G. Kiriakidis, E. Grilla, D. Mantzavinos, Samuel Mao, Shaohua Shen, Z. Frontistis, V. Binas, Solar light induced photocatalytic degradation of sulfamethoxazole by ZnWO4/CNNs nanocomposites, Journal of Photochemistry and Photobiology A: Chemistry 432 (2022) 114108.
9. Mergenbayeva S., Poulopoulos S.G., Grilla E., Hapeshi E., Vakros J., Mantzavinos D., Influence of the addition of M2+ (M: Co, Cu, Zn) on the properties and activity of Mo-TiO2 photocatalysts for water remediation, Global Nest Journal 25 (2022) 1-6.
10. Isari A.E., Grilla E., Parthenidis P., Kokkinos P., Evgenidou E., Lambropoulou D.A., Kalavrouziotis I.K., Safe Reuse of Landfill Leachates for Irrigation Purposes, International Journal of Environmental Engineering and Development 1 (2023) 113-118.
11. E. Grilla, P. Parthenidis, A. Filiou, E. Isari, P. Gkouvousis, P. Kokkinos, D. Papaioannou, E. Evgenidou, D.A. Lambropoulou, I.K. Kalavrouziotis, Phytotoxicity and ecotoxicity assessment of landfill leachate treated by UV-Fenton: From lab to pilot scale, Sustainable Chemistry and Pharmacy 38 (2024) 101483.

# CONFERENCE PUBLICATIONS

1. 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 9), Strasbourg, France
2. 14th Panhellenic Symposium of Catalysis, 2016, Patras.
3. 11th Panhellenic Scientific Conference on Chemical Engineering, 2017, Thessaloniki.
4. 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 10), Almeria, Spain.
5. 7th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2019) and SECOTOX Conference, Mykonos Island, Greece.
6. 5th Workshop of Graduates and Postdocs in Chemical Engineering Sciences, 2019, Patras.
7. Protection and Restoration of the Environment XV, Kalamata, Greece.
8. 1ο International Conference on Environmental Design (ICED2020), Athens, Greece
9. 1st Online Symposium of Young Scientists on «Mineral Resources-Environment-Chemical Engineering», 2021.
10. 18th International Conference on Environmental Science and Technology, 2023, Athens.