DEPARTMENT OF CHEMICAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA

Name and Surname:	Konstantinos Kalogiannis	
Specialization/Position:	Chemical Engineer, Assistant Professor (Department of Chemical Engineering of UOWM)	
Short CV:	• Catalytic pyrolysis of biomass and organic solid wastes toward biofuels and renewable chemicals of high added value. • Wastes valorisation for fuels and chemicals via thermochemical processes (end of life tires, plastic wastes). • Biomass fractionation and conversion to transportation fuels, fine chemicals and food additives. • Catalytic reaction engineering, design of novel processes and experimental units. • Biorefineries and novel bio-based materials.	
Publications 2013-2018 (up to 5)	1. The Consistency of Yields and Chemical Composition of HTL Bio-Oils from Lignins Produced by Different Preprocessing Technologies, Halleraker, H.V., ***Kalogiannis, K.***, Lappas, A., Rafael C. A. Castro, Ines C. Roberto, Solange I. Mussatto, S.I., Barth, T., Energies, 15(13), 4707, 2022 2. Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants, Charitopoulou, M.A., ***Kalogiannis, K.G.***, Lappas, A.A., Achilias, D.oS., Environmental Science and Pollution Research, pp. 59190–59213, 28(42), 2021 3. Production of omega-3 fatty acids from the microalga crypthecodinium cohnii by utilizing both pentose and hexose sugars from agricultural residues, Asimakopoulou, G., Karnaouri, A., Staikos, S., ***Kalogiannis, K.G.***, Lappas, A.A., Topakas, E., Fermentation, 7(4), 219, 2021 4. Conversion of organosolv pretreated hardwood biomass into 5-hydroxymethylfurfural (HMF) by combining enzymatic hydrolysis and isomerization with homogeneous catalysis, Dedes, G., Karnaouri, A., Marianou, A.A., ***Kalogiannis, K.G.,*** Lappas, A.A., Topakas, E., Biotechnology for Biofuels, 14(1), 172, 2021 Hydrodeoxygenation of phenol and biomass fast pyrolysis oil (bio-oil) over Ni/WO3-ZrO2 catalyst, Zerva, C., Karakoulia, S.A., ***Kalogiannis, K.G.***, ...Papayannakos, N., Triantafyllidis, K.S., Catalysis Today, pp. 57–67, 366, 2021	
Research Projects 2013-2018 (up to 5)	**1. Coordinator – Scientific responsible** **2020 – 2023: AMALTHYA by GSRT (National) (Project budget: 1.000.000 €)** AMALTHYA brings together 3 research organizations and 1 private company from Greece with the ambition to develop a holistic biorefinery scheme that converts agro and food industry residues and wastes into functional food supplements that can add significant nutritional and economic value to food products. **2018 – 2021: NoWasteBioTech by HFRI (Project budget: 225.000 €)** NoWasteBioTech is an ambitious interdisciplinary project aiming to convert low value agricultural and forestry residues to high added value chemicals and food additives such as omega-6 fatty acids, lactic acid, prebiotics and functional phenolic monomers and oligomers from biomass wastes.	
Distinctions:	1.	