DEPARTMENT OF CHEMICAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA

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Name and Surname:	Vayos G. Karayannis INTERNATIONAL CONTROL SUCCESSION NEW PERSON. NEW
Specialization/ Position:	Dr. Chemical Engineer NTUA Professor, Department of Chemical Engineering, UOWM, Kozani, Greece
Short CV:	<u>Diploma in Chemical Engineering</u> : School of Chemical Engineering, National Technical University of Athens (NTUA), Greece, 1986 <u>Diplome d' Etudes Approfondies - D.E.A. (MSc)</u> : "Applied Chemistry and Industrial Processes",
	Universite Pierre et Marie Curie - PARIS 6, Ecole Nationale Superieure de Chimie de Paris, France, 1988 PhD: Doctor Chemical Engineer, School of Chemical Engineering, NTUA, Athens, Greece, 2004 Pedagogical Studies: Postgraduate Degree, PATES/SELETE, Greece, 1998 Other Languages: French, English
	Research topics: Characterization, management, recycling, processing, transformation, upgrading, utilization & valorization of industrial and agro-based solid wastes/by-products/residues, Development of ceramic materials & metal-ceramic composites (MMCs), Stabilization/Solidification of hazardous substances, Development of new materials for use in environmental protection, Treatment of
	industrial effluents by Advanced Oxidation Processes (AOPs), Carbon capture, storage and utilization technologies (CCS/CCU), Biofuels from microalgae, Application of computing and artificial intelligence technologies, Socio-economic aspects of environmental and energy issues, Circular Bio/Economy Published scientific work: > 55 publications in peer-reviewed international scientific journals (Scopus), > 10 in scientific volumes (Scopus) as well as > 87 in refereed proceedings of international and national
	scientific conferences. 2/3 of the overall work: published in the last 5 years <u>Scientific cooperations</u> : NTUA - School of Chemical Engineering, Hellenic Open University - School of Science & Technology, Δημοκρίτειο Πανεπιστήμιο Θράκης - Environmental Engineering Dept., University of Thessaly - Chemical Technology & Materials Technology Labs., International Hellenic University - Food Science & Technology Dept., University of Patras - Chemistry Dept., Centre for Research and Technology Hellas - Chemical Process & Energy Resources Institute
Publications 2013-2018	1. K. Kokkinos, V. Karayannis , E. Lakioti, K. Moustakas, Exploring social determinants of municipal solid waste management: Survey processing with fuzzy logic and self-organized maps,
(up to five)	 Environmental Science and Pollution Research, Article in Press E. Katsika, A. Moutsatsou, V. Karayannis, M. Volioti, D. Tsoukleris, Synthesis and characterization of lignite fly ash ceramic substrates coated with TiO₂ slurry & evaluation in environmental applications, Journal of the Australian Ceramic Society 54(4) (2018) 711-719
	3. A. Baklavaridis, P. Samaras, V. Karayannis, Recent progress in the advanced oxidation of wastewaters using recycled fly ashes as alternative catalytic agents, <i>Desalination and Water Treatment</i> , 133 (2018) 292-306
	4. V. Karayannis , K. Ntampegliotis, S. Lamprakopoulos, G. Papapolymerou, X. Spiliotis, Novel sintered ceramic materials incorporated with EAF Carbon steel slag, <i>Materials Research Express</i> 4(1) (2017) 015505
	5. V.G. Karayannis , Development of extruded and fired bricks with steel industry byproduct towards circular economy, <i>Journal of Building Engineering</i> 7 (2016) 382-387
Research Projects 2013-2018 (up to five)	 Scientific Coordinator of the Research Project (financed by ELKE - TEI of Western Macedonia) "Innovative valorization of industrial solid wastes/by-products in the development of new materials for the treatment & advanced oxidation of industrial effluents", 2016-2017 Scientific Coordinator of the Research Project "ARCHIMEDES III" (co-financed by the EU & national
(up to jive)	funds) "Valorization of industrial and agricultural solid wastes into ceramic materials", TEI of Western Macedonia, 2013-2015
	 Main Research Team Member of the Research Program «COOPERATION 2011» (co-financed by the EU & national funds), "Algal biofuel production", 2013-2015 Main Research Team Member of the Research Program «COOPERATION 2011» (co-financed by the
	EU & national funds), "Novel ceramic materials", 2013-2015 5. Main Research Team Member of the Research Program "Study for the development of appropriate technologies for the management of olive mill solid and liquid by-products, sewage sludge, alternative solid fuel and petroleum coke", 2013
Distinctions:	 > 350 Citations (Scopus) και > 500 (GoogleScholar) Reviewer for > 15 highly-respected international scientific journals
	3. Scientific Committee Member and Session Chairman of a wide number of international and national congresses/conferences/symposia4. Evaluator of several research proposals