


DEPARTMENT OF CHEMICAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA

Name and Surname:	Gkaras Stylianos	
Specialization/ Position:	Chemist - Assistant Professor, Department of Chemical Engineering, UOWM.	
Short CV:	<p>Dr. Gkaras Stylianos is instructor at the School of Engineering of the University of Western Macedonia (UOWM). He is Assistant Professor at the Department of Chemical Engineering of UOWM (Advanced Photolytic Methods of Degradation of Aromatic Organic Pollutants in the Atmosphere). He holds a degree in Chemistry (1991) and a Ph.D. in Chemistry - Photochemistry (2004), (Department of Chemistry of the University of Ioannina, Greece). Thesis "Photodissociation of N-substituted Silylaniline Derivatives (Synthesis and ESR spectroscopy, laser flash photolysis, pulse radiolysis and product analysis study)"</p> <p>His research interests include: i. Field measurements, destructive and non-destructive methods of particulate matter analysis, evaluation, measurement station networks, air pollution control techniques, air quality management. ii. Distribution of pollution sources / fugitive dust emission sources (using advanced techniques for the analysis of environmental samples and computational models), iii. Organic synthesis, iv. Photochemistry, v. Spectroscopy of organic compounds.</p> <p>His scientific work has been published in 16 articles in international scientific journals and presented in more than 50 articles in proceeding international and national conferences (>110 citations, h-index = 7, Scopus).</p>	
Publications 2013-2018 (up to five)	<ol style="list-style-type: none"> 1) A. G. Triantafyllou, J. Kalogiros, A. Krestou , E. Leivaditou, N. Zoumakis, D. Bouris, S. Garas, E. Konstantinidis, Q. Wang, "Evaluation of an atmospheric model with surface and ABL meteorological data for energy applications in structured areas", (2018) Theoretical and Applied Climatology https://doi.org/10.1007/s00704-018-2429-1 2) Athanasios Triantafyllou, Nicolas Moussiopoulos, Athina Krestou, George Tsegas, Fotios Barmpas, Stelios Garas and Melina Andreadou, "Application of inverse dispersion modelling for the determination of PM emission factors from fugitive dust sources in open-pit lignite mines", (2017) International Journal of Environment and Pollution, 62 (2-4), pp. 274-290. DOI: 10.1504/IJEP.2017.089412 3) A. G. Triantafyllou, Vasilios N Matthaïos; Triantafyllos A Albanis, Vasileios Sakkas, Stelios Garas, «Performance and evaluation of a coupled prognostic model TAPM over a mountainous complex terrain industrial area», (2018) Theoretical and Applied Climatology, 132 (3-4), pp. 885-903. Doi:10.1007/s00704-017-2122-9 4) Vasileios N. Matthaïos, Athanassios G. Triantafyllou, Stylianos Garas, Athina Krestou, Elena Leivaditou «Interactions between complicated flow-dispersion patterns and boundary layer evolution in a mountainous complex terrain during elevated SO2 concentrations» (2017) Meteorology and Atmospheric Physics, 129 (4), pp. 425-439. DOI 10.1007/s00703-016-0480-y 5) L Aidaoui, A. G. Triantafyllou, A. Azzi, S.K. Garas, V.N. Matthaïos, 2014, «Elevated stacks' pollutants' dispersion and its contribution to photochemical smog formation over a heavily industrial area », Air Quality, Atmosphere & Health, 2015, Vol.8, Issue 2, pp.213-227. (DOI 10.1007/s11869-014-0300-9). 	
Research Projects 2013-2018 (up to five)	<ul style="list-style-type: none"> • THEOFRASTOS: Quantification of the contribution of Eordea's basin lignite open pit mines in emissions – concentrations of PM10, from the current and planned activities, in sources and receptors, funded by the Lignite Center of Western Macedonia/PPC S.A. • Preparation of actions and environmental management projects in the Region of Kozani, (4th Community Support Framework in Greece). • Systematic monitoring and recording of air quality in the Municipality of Kozani. • Development and evaluation of a high resolution atmospheric urban canopy model for energy applications in structured areas, funded by the Greek Ministry of Education and Religious Affairs. • Investigation of chemical characteristics of suspended particles in the atmosphere of selected areas of the Region of Kozani, Special Account for Research Funds (ELKE, 2017). 	