


DEPARTMENT OF ENVIRONMENTAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA

Name and Surname:	Nikolaos Kaklidis	
Specialization/Position:	Mechanical Engineer/Adjunct Faculty (Department of Environmental Engineering, UOWM)	
Brief CV:	<p>Dr. Kaklidis graduated the Dept. of Mechanical Engineering at University of Thessaly in 2005. He obtained his Ph.D. in 2011 from the University of Western Macedonia. He is the co-author of 20 papers in international scientific journals, 25 in international conference proceedings and 30 in national conference proceedings (>190 citations, h=8). He is member of the research group of Sustainable Technologies on Alternative & Renewable FUELS (STAR FUELS). STAR FUELS' mission is to stimulate and conduct high-level fundamental/applied research in the fields of hydrocarbons processing (natural gas valorisation, production of olefins), hydrogen (iso-octane and bioethanol reforming, steam and H₂S electrolysis, electrochemical membrane reactors for hydrogen generation and separation) and fuel cell (direct hydrocarbon and solid carbon high temperature ceramic fuel cells) technologies, air pollution control (NO_x, VOCs, etc) and biomass to energy conversion technologies.</p>	
Publications 2013-2018 (up to 5)	<ol style="list-style-type: none"> 1. "The combined impact of carbon type and catalyst-aided gasification process on the performance of a Direct Carbon Solid Oxide Fuel Cell", M. Konsolakis, <u>N. Kaklidis</u>, V. Kyriakou, I. Garagounis, T. Kraia, A. Arenillas, J.A. Menéndez, R. Strandbakke, G.E. Marnellos. <i>Solid State Ionics</i>, 317, 268-275 (2018). 2. "Iso-octane internal reforming in a solid oxide cell reactor", A. Al-Musa, <u>N. Kaklidis</u>, M. Al-Saleh, A. Al-Zahrani, V. Kyriakou, G.E. Marnellos. <i>Solid State Ionics</i>, 288, 135-139 (2016). 3. "Assessment of biochar as feedstock in a direct carbon solid oxide fuel cell", M. Konsolakis, <u>N. Kaklidis</u>, G.E. Marnellos, D. Zaharaki, K. Komnitsas. <i>Royal Society of Chemistry Advances</i>, 5, 73399-73409 (2015). 4. "Direct utilization of Lignite coal in a Co-CeO₂/YSZ/Ag solid oxide fuel cell", <u>N. Kaklidis</u>, I. Garagounis, V. Kyriakou, V. Besikiotis, A. Arenillas, J.A. Menéndez, G.E. Marnellos, M. Konsolakis. <i>International Journal of Hydrogen Energy</i>, 40, 14353-13363 (2015). 5. "Insights into the role of SO₂ and H₂O on the surface characteristics and de-N₂O efficiency of Pd/Al₂O₃ catalysts during N₂O decomposition in the presence of CH₄ and O₂ excess", M. Konsolakis, I.V. Yentekakis, G. Pekridis, <u>N. Kaklidis</u>, A.C. Psarras, G.E. Marnellos. <i>Applied Catalysis B: Environmental</i>, 138-139, 191-198 (2013). 	
Research Projects 2013-2018 (up to 5)	<ol style="list-style-type: none"> 1. "Efficient conversion of coal to electricity-direct coal fuel cells – DCFC" (EE (FP7), Research Fund for Coal and Steel (RFC-PR-10007)). 2. "Construction of a Prototype Apparatus for the Production of Hydrogen and Power in Direct Hydrocarbon Solid Oxide Fuel Cell-Reactors" (KACST (King Abdulaziz City of Science and Technology)). 3. "Development and application of novel bi-metallic anodic electrodes in direct hydrocarbon fuel cells (SOFC)" (Greek Ministry of Development). 4. "A combined process of biomass pyrolysis and SOFC for the simultaneous production of gas/liquid biofuels and energy" (Greek Ministry of Development). 5. "Development of a combined anaerobic digestion-SOFC pilot plant" (West Macedonia Region). 	
Distinctions:	<ol style="list-style-type: none"> 1. Postdoctoral scholarship from the State Scholarships Foundation (IKY). 2. Ph.D. Scholarship from the Chemical Process Engineering Research Institute (CPERI) of the Centre of Research and Technology Hellas (CERTH), Greece. 	