DEPARTMENT OF ENVIRONMENTAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA

Name and Surname:	Dimitrios Ipsakis	
Specialization/Position:	Chemical Engineer – Collaborating Researcher at CPERI/CERTH (Laboratory of Environmental Fuels and Hydrocarbons)	
Brief CV:	Dr. Dimitris K. Ipsakis received his Chemical Engineering Diploma from the Aristotle University of Thessaloniki (AUTH) in 2005. He then received his PhD title on the research area of exploiting novel energy systems (process modeling, simulation and control) from the same Department in March 2011. In 2013, he obtained his Msc in Theoretical Informatics and Systems & Control Theory from the Department of Mathematics, AUTh. Since July 2006 he has been employed as a Graduate Fellow (PhD Candidate 2006-2011) and Collaborating Researcher (2011-2013, 2016-present) at the Chemical Process and Energy Resources Institute at the Centre for Research and Technology Hellas (CPERI/CERTH), as well as in the Department of Chemical Engineering (AUTh 2014-2016). His scientific contributions are summarized in a) the modeling and simulation (dynamic and steady-state) of integrated process systems focusing on energy, fuels and high-added value chemicals production, b) the development, design and control of process systems, c) the process operation improvement and techno-economic analysis and d) the reaction kinetics. Throughout his research and academic career, he has written and edited 21 research papers published in international scientific journals with a high impact factor, more than 65 research papers that have been published and presented in conference proceedings (both National and International), and 1 book and 1 chapter in a review book. The above research portfolio has received more than 850 citations (2006-2018) with an h = 11 index (Scholar, October 2018).	
Publications 2013-2018 ***(up to 5)***	1. D. Ipsakis, Tz. Kraia, M. Konsolakis, G.E. Marnellos, "Remediation of Black Sea ecosystem and H2 generation via H2S/H2O co-electrolysis in a proton-conducting reactor: A techno-economic feasibility assessment", Renewable Energy, Vol. 125, 2018, pp. 806-818 2. D. Ipsakis, M. Ouzounidou, S. Papadopoulou, P. Seferlis, S. Voutetakis, "Dynamic Modeling and Control Analysis of a Methanol Autothermal Reforming and PEM Fuel Cell Power System", Applied Energy, Vol. 208, 2017, pp. 703-718 3. D. Ipsakis, E. Heracleous, L. Silvester, D.B. Bukur A.A. Lemonidou, "Reduction and Oxidation Modeling of NiO-based Oxygen Transfer Materials", Chemical Engineering Journal, Volume 308, 2017, pp. 840-852 4. A.S. Kyriakides, L. Rodrıguez-Garcıa, S. Voutetakis, D. Ipsakis, P. Seferlis, S. Papadopoulou, "Enhancement of pure hydrogen production through the use of a membrane reactor", International Journal of Hydrogen Energy, Vol. 39, 2014, pp. 4749-4760 5. C. Ziogou, D. Ipsakis, P. Seferlis, S. Bezergianni, S. Papadopoulou, S. Voutetakis, "Optimal Production of Renewable Hydrogen based on an Efficient Energy Management Strategy", Energy, Vol. 55, 2013, pp. 58-67	
Research Projects 2013-2018 ***(up to 5)***	1. "(NEXUS): Energy-Environment-Agricultural Production (Food, Water, Materials) (NEXUS)-(02/2018-03/2018)" Competitiveness, entrepreneurship and novelty (ESPA 2014-2020) «ACT FOR THE STRATEGIC DEVELOPMENT OF NATIONAL RESEARCH AND TECHNOLOGICAL INSTITUTES»" – CPERI/CERTH. 2. "Cascade Deoxygenation Process Using Tailored Nanocatalysts for the Production of Biofuels from Lignocellulosic Biomass (11/2013-10/2017)", FP7-NMP-2013-LARGE-75-420-2-166 – CPERI/CERTH. 3. "Intensifying Methane Reforming by Combining Carbonate and Chemical Looping (10/2012-10/2015)" NPRP 5-420-2-166: Funding provided by Qatar National Research Fund"- Department of Chemical Engineering-AUTh/ Texas A&M University at Qatar. 4. "Evaluation of Novel Environmental Methodologies for Improving the Cost Efficiency of Biodiesel Production via Parallel Utilization of Glycerol by-product (2/2012-2/2015)" ACT I: Synergetic Programs of Low and Medium Scale, funding by NSRF 2007-2013 "Synergasia Projects" - CPERI/CERTH.	
Distinctions:	1. PostDoc Research Scholarship (AUTh, 2012) 2. Undergraduate Scholarships from State Scholarship Foundations (I.K.Y) and Technical National Chamber of Greece (2000-2001, 2002-2003)	