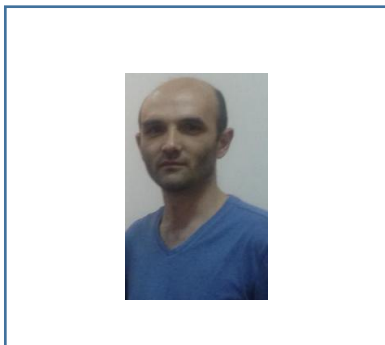


PRESENTER INFORMATION



Name: DUTEANU

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Institute/ affiliation: Politehnica University Timisoara

BIOGRAPHICAL SKETCH

Work experience:

Specialist areas: Environmental protection, Microbial fuel cells, Fuel cells, electrochemical analysis, Classical methods of analysis, UV-Vis spectrometry, Atomic absorption spectrometry or AAS, Inductively Coupled Plasma Mass Spectrometry or ICP-MS, Energy-dispersive X-ray spectroscopy or SEM-EDX.

Results: co-author at 109 scientific article published in Web of Science-Clarivate Analytics indexed journals; co-author at **3 book chapter** in international publishing house, 2 edited books in international publishing house. member in research team of **5** International Research Projects; director in **2** National Research Project; research team member in **10** National Research Projects;

2068 citations in Web of Science-Clarivate Analytics;

Hirsch Index on ISI web of science: 23

Education:

2018: Habilitation certificate in the field of university studies: Chemical Engineering

From 2001 to 2007: PhD Diploma

From 1999 to 2001: Master degree diploma in the specialisation: „Materials physics”

Professional training:

2017 - present: Associated Professor, Politehnica University Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Departament: Inorganic and Applied Chemistry and Environmental Engineering, Timișoara, Romania

2018 - present: PhD supervision, Politehnica University Timisoara, Field: CHEMICAL ENGINEERING

01.10.2012 – 20.09.2017: Lecturer. Politehnica University Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Departament: Inorganic and Applied Chemistry and Environmental Engineering, Timișoara, Romania

29.09.2008 – 31.03.2009: Associate researcher, Newcastle University, School of Chemical Engineering and Advanced Materials, Newcastle upon Tyne, UK.

TITLE: *Future Hydrogen Usage*

ABSTRACT

Extensive development of human society leads at an increase for energy demands leading at increase of fossil fuels consumption. Rapid climate changement during last decades make necessarily the development of new energy production systems. In 1874 Jules Verne wrote in his book *The Mysterious Island:*” water will one day be employed as a fuel, that hydrogen and oxygen that constitute it, used singly or together, will furnish an inexhaustible source of heat and light, of an intensity of which coal is not capable. Someday the coal rooms of steamers and the tenders of locomotives will, instead of coal, be stored with these two condensed gases, which will burn in the furnaces with enormous caloric power...I believe, that when the deposits of coal are exhausted, we shall heat and warm ourselves with water... Water will be the coal of the future.... “. Student will be able to understand the future hydrogen usage. Topic covered include introduction in hydrogen usage and will let participants to understand the future of hydrogen as energy vector.