



Prof. dr. eng. Gheorghe MARIA

Department of Chemical & Biochemical Engineering
University Politehnica of Bucharest (UPB), Romania
Corresponding member of the Romanian Academy

Dr. Gheorghe Maria is currently professor in Chemical & Biochemical Reaction Engineering with the UPB - University Politehnica of Bucharest (Romania). He received the PhD in 1987 in chemical engineering at UPB (supervisor Prof. Dr. ing. Raul Mihail, in a subject related to statistical estimation of (bio)chemical process kinetic models). On 1982 he joined ICECHIM research center in Bucharest (IECB-chemical & biochemical energetics Institute, catalysis group, as a senior researcher), and on 1990 he joined UPB as a lecturer. On 1992 he came in Switzerland for working as Assistant Professor with ETH Zürich (with the late Prof. David W.T. Rippin group of Process System Engineering). On 1997 he return to Romania becoming Associate Professor and then full Professor (1999) with UPB. His research interests concern the fields of (bio)chemical reactors, kinetic modelling, (bio)chemical reaction engineering, risk analysis of chemical plants, process systems engineering, Systems Biology, bioinformatics, dynamic modelling of cell metabolic processes, of gene expression and regulatory circuits, *in-silico* design of genetic modified micro-organisms (GMO), modelling drug release kinetics. Over the past 25 years he participated to various national or intl. Res. Projects (more than 15), making short research stages/visitingship at Univ. des **Saarlandes** (3-months on 1999, DAAD fellow on modelling complex enzymatic kinetics); TU **Erlangen** (3-months on 2000); **Texas** A&M University (2 yrs., 2002-2003, research scientist with NIH fellow on modelling gene expression and gene regulatory networks, systems biology); TU **Braunschweig** (2006) and TU **Hamburg** (2009, DFG and DAAD fellows on simulating bacteria resistance to environmental pollutants); **Tianjin** Inst. Ind. Biotechnology China (2-months on 2010, *in-silico* searching for gene knockout strategies to maximize production of succinate in *E. coli* cells, synthetic biology). He presented more than 31 invited Lectures at various Universities in EU, CAN, USA, China (among them: Princeton Univ. 1994, Texas A&M University 2002, EPFL Lausanne 1997, Queen's Univ. Kingston 1994 Canada, BASF Ludwigshafen 1996). He authored **10** books (with ISBN, **5** in RO, **5** in USA), **5** teaching books (UPB), **6** book chapters (with ISBN, Engl.), **149** papers in peer reviewed **ISI** international journals and *univ.* journals, and **79** in intl. conference proceedings, with more than **1400** citations GoogleScholar (*h-index* **20** and *i10 index* **47**; ResearchGate score > **36**). Among them, **32** papers have been published in top (Bio)Chem. Eng. journals with the highest $IF \geq 3$. According to the Romanian ranking system, he reported high scores signing $NP > 120$ ISI papers as principal author, with a cummulative impact factor of $FIC > 180$. He is a reviewer for many (bio)chemical engineering journals (**25**). He co-chaired or was member of the organizing Committees of 16 international conferences. Among them: *5th Int. Conference on Computational Bioengineering* (ICCB-5), 11-13 September, 2013, Leuven, Belgium; *ROMPHYSHEM-15, 15-th International Conference of Physical Chemistry*, 11-13 September, 2013, Bucharest; 13th Edition of *Academic Days* of Timisoara, June 13-14, 2013, Timișoara (Romania); *ELSEDIMA 10th, 11th and 12th International Conference* (Environmental Legislation & Safety Engineering), 18-19 September 2014, 26-28 May 2016, and 17-19 May 2018, respectively, Cluj-Napoca (RO). On 1985 he award the Prize of the **Romanian Academy** for kinetic studies and scalep / plant design of the methanol-to-gasoline process at Brazi (Ploiesti, Romania) refinery and petrochemical works. He is member in the scientific/editorial board of *Chem. & Biochemical Eng. Q. (Zagreb)*, *Revista de Chimie (Bucharest)*, *The Scientific Bulletin of University POLITEHNICA of Bucharest*, *Bulletin of Romanian Chemical Engineering Society*, *ECOTERRA JI. Environ. Res. and Protection* (Romanian Soc. Environ. Sci. & Eng., Cluj-Napoca Romania). He is a corresponding member of the **Romanian Academy**. He was also an expert for various EU and national research programs in the bioengineering area. He is a PhD supervisor with UPB (from 2008, in Chem. & Biochem. Engineering topics), with **7 PhDs** finalized, and **3 PhDs** in progress. Complete list of publications on his Web-page: <https://sites.google.com/site/gheorghemariasite/>. Supplementary information also on: http://sicr.ro/wp-content/uploads/2017/01/BRChES_2_2016.pdf and <https://sites.google.com/site/gheorghemariasite/home>

ISBN 978-606-23-1010-3



9 786062 310103