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EDUCATION

2004	**Ph. D** in **Process Engineering** supported by **ESA (European Space Agency)** Blaise Pascal University, Polytech, Department of Chemical and Biochemical Engineering, Clermont-Ferrand, France Disertation: "Kinetic and stoechiometric study of *Rhodospirillum rubrum* growth in photobioreactor"; Advisor: Professor Gilles Dussap Award : "Congratulations of the examination committee"
1996	**MSc in Enzyme Engineering, Bioconversion and Microbiology**, University of Compiegne and AgroParisTech, Massy, France
1993	**Engineer Degree** in Process Engineering, Faculty of Food Science, University of Galati, Romania

PROFESSIONAL AND RESEARCH EXPERIENCE

2006-Present	**Associate Professor**, Department of Environmental Processes and Analysis Chemical Engineering School of Rennes (ENSCR), France
2006 **(5 months)**	**Assistant Lecturer and Researcher** Department of Chemistry and Engineering of Processes (CIP), ENSCR (France)
2002-2003	**Assistant lecturer and Researcher** Department of Chemical and Biochemical Engineering, Polytech, Blaise Pascal University, Clermont-Ferrand, France
1999-2000	**Researcher** , ESA (European Space Agency) and Department of Chemical and Biochemical Engineering, Polytech, Blaise Pascal University, Clermont-Ferrand, France "Preliminary studies on the modelisation of the photoheterotrophic compartment of the MELiSSA loop (Microbial Ecological Life Support System Alternative)"
1995-1996 **(6 month)**	**Advanced training period for MSc,** Department of Industrial Microbiology, AgroParisTech, Massy, France
1994 **(6 months)**	**Visiting Researcher**, European Commision grant for mobility of researchers Center for Material Forming (CEMEF), Mines ParisTech, Sophia Antipolis,

	France
1993-1999	**Junior Lecturer,** Department of Food Chemistry, University of Târgoviste, Romania
1993	Graduate Student Research, European Commision grant
(4 months)	Center for Material Forming (CEMEF), Mines ParisTech, Sophia Antipolis, France

SELECTED PEER-REVIEWED PUBLICATIONS

1. Hemidouche S., Favier L., Amrane A., Dabert P., Le Roux S. Sadaoui Z. (2018). Successful biodegradation of a refractory pharmaceutical compound by an indigenous phenol-tolerant Pseudomonas aeruginosa strain. Water air and soil pollution. DOI : 10.1007/s11270-018-3684-6.

2. Elhalil A., Elmoubarki R., Sadiq M., Abdennouri M., Kadmi Y., Favier L. Qourzal S., Barka N. (2017). Enhanced photocatalytic degradation of caffeine as a model pharmaceutical pollutant by Ag-ZnO-Al2O3 nanocomposite. Desalination and Water Treatment. doi: 10.5004/dwt.2017.21587.

3. Agueniou F., Chebli D., Reffas A., Bouguettoucha A., Benguerba Y., FavierL., Amrane A. (2017). Impact of TiO2-Cation Exchange Resin Composite on the Removal of Ethyl Violet. Arabian Journal of Science and Engineering, Arabian Journal of Science and Engineering. DOI 10.1007/s13369-017-2857-8.

4. Hlihor R.M., Gavrilescu M., Tavares T., Favier L., Olivieri G. (2017). Bioremediation: An Overview on Current Practices, Advances, and New Perspectives in Environmental Pollution Treatment. BioMed Research International.

5. Simion A.I., Grigoras C.G., Favier L., Moroi A.M., Kadmi Y., Bahrim G.E. (2017). Successful fodder yeast production from agro-industrial by products through a statistical optimization approach. Romanian Biotechnological Letters, 22(3), 12671-12679.

6. Rusu L., Suceveanu M., Şuteu D., Favier L., Harja M. (2017). Assessment of groundwater and surface water contamination by landfill leachate: a case study in Neamt country, Romania. Environmental Engineering and Management Journal, 16(3), 633-641.

7. Kadmi Y., Favier L., Simion A.I., Rusu L., Pacala M.L., Wolbert D. (2017). Measurement of pollution levels of N-nitroso compounds of health concern in water using ultra-performance liquid chromatography- tandem mass spectrometry. Process Safety and Environmental protection, 108, 7-17.

8. Madi K., Yahiaoui I., Aissani-Benissad F., Vial C., Audonnet F., Favier L. (2016). Basic red dye removal by coupling electrocoagulation process with biological treatment. Environmental Engineering and Management Journal (in press).

9. Favier L., Simion A. I., Matei E., Grigoras C.G, Kadmi Y., Bouzaza. A. (2016). Photocatalytic oxidation of a hazardous phenolic compound over TiO2 in a batch system. Environmental Engineering and Management Journal (in press).

10. Semrany S., Taha S., Djelal H., Favier L., Amrane A. (2016). Influence of stirring speed and gas-to-liquid ratio on activated sludge performance in carbamazepine elimination using response surface methodology and principal component analysis. Environmental Engineering and Management Journal (in press).

11. Kadmi Y., Favier L., Simion A.I., Rusu L., Pacala M.L., Wolbert D. (2016). Measurement of pollution levels of N-nitroso compounds of health concern in water using ultra-performance liquid chromatography- tandem mass spectrometry. Process Safety and Environmental protection, DOI:10.1016/j.psep.2016.04.026.

12. Ounnar A., Favier L., Bouzaza A., Bentahar F. (2016). Kinetic study of spiramycin removal from aqueous solution by heterogeneous photocatalysis. Kinetics and Catalysis, 57(2), 200-206.

13. Popa Ungureanu C., Favier L., Bahrim G. (2016). Screening of soil bacteria as potential agents for drugs biodegradation: A case study with clofibric acid. Journal of Chemical Technology and Biotechnology, 91, 1645-1653.

14. Ounnar A., Bouzaza A., Favier L., Bentahar F. (2016). Macrolide antibiotics removal using a circulating TiO_2-coated paper photoreactor: parametric study and hydrodynamic flow characterization. Water Science and Technology, 73(11), 2627-2637.

15. Kadmi Y., Favier L., Simion A. I., Matei E., Wolbert D. (2015). Improved determination of dichloroacetic and trichloroacetic acids in water by solid phase extraction followed by ultra-high performance liquid chromatography tandem mass spectrometry. Analytical Letters, 49(3), 433-443.

16. Comanita E.D., Ghinea C., Rosca M., Smaranda C., Favier L., Gostin I., Iordache S., Gavrilescu M. (2015). Lucrari Stiintifice Seria Horticultura, vol. 58(2) /, U.S.A.M.V. IASI, 253-260 (BDI).

17. Favier L., Simion A.I., Rusu L., Pacala M.L., Grigoras C., Bouzaza A. (2015). Removal of an organic refractory compound by photocatalysis in batch reactor – a kinetic study. Environmental Engineering and Management Journal, 14(6), 1327-1338.

18. Favier L., Simion A.I., Rusu L., Pacala M.L., Grigoras C., Bouzaza A. (2015). Removal of an organic refractory compound by photocatalysis in batch reactor – a kinetic study. Environmental Engineering and Management Journal, 14(6), 1327-1338.

19. Kadmi Y., Favier L., Yehya T., Soutrel I., Simion A.I., Vial C., Wolbert D. (2015). Controlling contamination for determination of ultra-trace levels of priority pollutants chlorophenols in environmental water matrices. Arabian Journal of Chemistry (10.1016/j.arabjc.2015.06.005).

20. Popa (Ungureanu) C., Balaes T., Favier L., Tanase C., Bahrim G., (2015). White-rot fungus implications in clofibric acid biodegradation. Roumanian Biotechnological Letters. 20(3), 10388-10395.

21. Comaniţă E.D., Ghinea C., Hlihor R.M., Simion I.M., SmarandaC. , FavierL., Roşca M., Gostin I., Gavrilescu M. (2015). Chanllenges and opportunities in green-plastics: an assessment using the electre decision-aid method. Environmental Engineering and Management Journal, 14(3), 689-702.

22. Kadmi Y., Favier L., Harja M., Simion A.I., Rusu L., Wolbert D. (2015). A new strategy for pentachlorophenol monitoring in water samples using ultra-high performance liquid chromatography-tandem mass spectrometry. Environmental Engineering and Management Journal, 14(3), 567-574.

23. Yehya T., Favier L., Kadmi Y., Audonnet F., Fayad N., Gavrilescu M., Vial C. (2015). Removal of carbamazepine by electrocoagulation : investigation of some key operational parameters. Environmental Engineering and Management Journal, 14(3), 639-645.

24. Simion A. I., Ionita I., Grigoras C.G., Favier-Teodorescu L. G., Gavrila L. (2015). Development and optimization of water based pain formula in order to reduce VOCs emissions. Environmental Engineering and Management Journal, 14(2), 277-288.

25. Kadmi Y., Favier L., Simion A.I., Wolbert D. (2015). A rapid and sensitive method for the monitoring of N-nitrosodyphenylamine and N-nitrosodimethylamine in multiple water matices. Carpathian Journal of Earth and Environmental Sciences, 1(10), 53-61.

26. Manea L., Simion A. I., Grigoras C. G., Favier-Teodorescu L. (2014), New viable industrial wastes mix for fodder yeast production, Environmental Engineering and Management Journal, 13(7), 1611-1621.

27. Predescu A.M., Matei E., Savastru D., Coman G., Predescu C., Vlad G., Favier L. (2014). Nanosctructures with iron oxides core applied for water treatment. Digest Journal of Nanomaterials and Biostructures, 9 (3), 987-995.

28. Kadmi Y., Favier L., Mouni L., Nasrallah N., Wolbert D. (2014). A highly sensitive liquid chromatography-tandem mass spectrometry method for the analysis of a toxic water disinfection by-product, N-nitrosomethylethylamine. Analytical Methods, 6, 3231-3234.

29. Kadmi Y., Favier L., Mouni L., Wolbert D. (2015). N-nitrosamines, emerging disinfection by-products of health concern: an overview of occurence, mechanisms of formation and analysis in water. Water Science and Technology, 15(1), 11-25.

30. Khenniche L., Favier L., Bouzaza A., Fourcade F., Aissani F., Amrane A. (2015). Photocatalytic degradation of Bezacryl yellow in batch reactors – Feasibility of the combination of photocatalysis and a biological treatment. Environmental Technology, 36(1), 1-10.

31. Popa C., Favier L., Dinica R., Semrany S. , Djelal H., Amrane A., Bahrim G. (2014). Potential of newly wild Streptomyces stains as agents for the biodegradation of a recalcitrant pharmaceutical, carbamazepine. Environmental Technology, 35(24), 3082-3091.

32. Popa Ungureanu C., Favier L., Bahrim G., Amrane A. (2015). Response surface optimization of experimental conditions for carbamazepine biodegradation by Streptomyces MIUG 4.89. New Biotechnology, 32(3), 347-357.

33. Rusu L., Harja M., Simion A.I., Suteu D., Favier L. (2014). Removal of astrazone blue from aqueous solutions onto brown peat. Equilibrium and kinetic studies. Korean Journal of Chemical Engineering, 31(6), 1008-1015.

34. Kadmi Y., Favier L., Soutrel I., Lemasle M., Wolbert D. (2014). Ultratrace-level determination of N-Nitrosodimethylamine, N-Nitrosodiethylamine, and N-Nitrosomorpholine in waters by solid-phase extraction followed by liquid chromatography-tandem mass spectrometry. Central European Journal of Chemistry, 12(9), 928-936.

35. Popa Claudia, Favier L., Bahrim G., Amrane A. (2013). Study of Streptomyces as agents for clofibric acid biotransformation, Current Opinion in Biotechnology 24, Supplement 1.

36. Popa (Ungureanu) C., Favier L., Bahrim G. (2013). Testing of the new Streptomyces strains for production of phenoloxidases. Analele Universitatii Dunarea de Jos din Galati. Fascicule VI- Food Technology, vol. 37, No.2, pp. 35-46.

37. Dobrovici P.E., Simion A. I., Grigoras C G., Favier-Teodorescu L. (2013). Optimization of barley husks acid hydrolysis process using the response surface methodology. Revue Roumaine de Chimie, 58(6), pp. 517-525.

38. Păcală M.-L., Oprean L., Favier L., Danciu C.A., Lengyel E. (2012) Research regarding the use of wheat biodiversity for obtaining some cereal-based fermented mashes, Bull. UASVM Agric., 69(2):334-343, 2012; Print ISSN 1843-5246; Electronic ISSN 1843-5386; http://journals.usamvcluj.ro/index.php/agriculture/article/view/8782/7453 (index CNCSIS B+, cod: 485).

39. Simion A.I., Dobrovici P.E., Rusu L., Favier-Teodorescu L., Ciobanu D. (2012). Mathematical modelling of the process of sugar beet pulp valorisation by acid hydrolysis. Revue roumaine de chimie, 57 (11) 915-920.

40. Semrany S., Favier L., Djelal H., Taha S., Amrane A. (2012). Bioaugmentation: possible solution in the treatment of Bio-refractory organic compounds (Bio-ROCs). Biochemical engineering journal, 69, 75-86.

41. Assoumani A., Favier-Teodorescu L., Wolbert D. (2008). Adsorption kinetics and isotherm characteristics of selected endocrine disrupting compounds on activated carbon in waters. Water Science and Technology, 9, 51-58.

42. Favier-Teodorescu L., Cornet J.F., Dussap C.-G. (2003). Modelling continuous culture of Rhodospirillum rubrum in photobioreactor under light limited conditions. Biotechnology Letters, 25, 359-364.

43. Cornet J.-F., Favier L., Dussap C.-G. (2003). Modelling stability of photoheterotrophic continous cultures in photobioreactors. Biotechnology Progress, 19(4), 1216-1227. (IF 1.883).

EUROPEAN REPORTS (ESA) in EUROPEAN PROJECTS

Favier-Teodorescu G.L., Cornet J.F., Dussap C.G. (2003). Kinetic and stoichiometric analysis of Rhodospirillum rubrum growth in a cylindrical photobioreator at a constant incident light flux. ESA report 49.2, 12 924- 98-NL-MV.

Favier-Teodorescu G.L., Cornet J.F., Dussap C.G. (2000). Modelling phototrophic growth of Rhodospirillum rubrum in photobioreactors on different carbon substrates. Final Report for activity Memorandum of understanding ECT/FG/MMM/97.012.

Favier-Teodorescu G.L., Poughon L. Cornet J.F., Dussap C.G. (2000). Stoechiometric analysis of R. rubrum growth for transient and short residence time in a dark operative zone. ESA report 12 924-98-NL-MV.

Favier-Teodorescu G.L., Pons A., Poughon L. (1999). Stoechiometric analysis of R. rubrum growth on different carbon substrates. ESA report 13 323-98-NL-MV.

LIST RESEARCH GRANTS AS PARTNER TEAM LEADER

- PHC Balaton 2016-2018

- ANR Green AlgOhol : 2015-2018.

- CMEP-Algerie (University of Bejaia) - Numéro de code du projet : 11MDU843

- PHC Brincusi: France-Romania (University « Dunarea de Jos » of Galati »)- PROJET N° - 29510YD

- PHC Brincusi: France- Roumanie (Université Politehnica of Bucarest»)- PROJET N° 32666QB