

Short Curriculum vitae et studiorum **Stefano CURCIO, Ph. D.**

**Occupation:** Full Professor of Transport Phenomena – University of Calabria - Faculty of Engineering

**Affiliation:** University of Calabria, Department of Computer Engineering, Modeling, Electronics and Systems - Laboratory of Transport Phenomena and Biotechnology – Ponte P. Bucci, cubo 39/c – 87036 Rende (CS) - ITALY

**Born:** Cosenza (Italy), April 10, 1970

**Education:** Degree in Chemical Engineering “cum laude”, University of Calabria (Italy), 1995;

PhD in Chemical Technologies and Novel Materials, University of Calabria (Italy), 1998;

**Current Academic Role:** Deputy Head of the Depart. of Computer Engineering, Modeling, Electronics and Syst. 2015-

**Academic Career:**

Full Professor of Transport Phenomena 2018-

Coordinator of the degree course in Food Engineering – Univ. of Calabria- Fac. of Engineering 2018

Associate Professor of Transport Phenomena 2015- 2018

Assistant Professor of Transport Phenomena, 2001—2014

Research fellow – University of Calabria - Department of Chemical Engineering and Materials, 1999-2001.

**Brief Description of Scientific and Professional Activity:**

Author of more than 75 papers published on international peer-reviewed scientific journals, of ten book chapters, of one patent and of more than 120 presentations held in international conferences and published in the Conference proceedings (refer to: <http://scholar.google.it/citations?user=WB5ZRCAAAAJ&hl=it>);

Teacher of: Transport Phenomena, Fluid Mechanics; Heat and Mass Transfer; Biochemical Reactors; Dynamics and Control of Chemical Processes; Chemical Engineering Lab.; Innovation in Food and Process Industry.

Responsible for several research projects; Visiting researcher at CERN (Geneve – CH)

Scientific collaborations with several food industries, among these: Barilla (Parma, IT) and PepsiCo (Plano, TX)

Member of Editorial Board/Editor of: Journal of Bioprocessing & Biotechniques; BioMed Res. International.

Guest editor of a special issue of Ecotoxicology and Environmental Safety (Elsevier) Journal

Reviewer of: Journal of Membrane Science, Journal of Food Engineering, Drying Technology, Innovative Food Science and Emerging Technologies, Food Research International, Food and Bioprocess Technology, Comprehensive Reviews in Food Science and Food Safety, Biochemical Engineering Journal, Separation and Purification Technology, Biofuels, Bioproducts & Biorefining, Biosystems Engineering, International Journal of Heat and Mass Transfer, Chemical Engineering Communications, Journal of Polymer Engineering, etc.

Reviewer of research projects submitted to the Italian Ministry of Scientific Research, to the National Center of Science and Technology Evaluation - Ministry of Education and Science, Republic of Kazakhstan, to the Chilean National Commission for Science and Technology Research.

Chairman at the Euromembrane 2012, London; Keynote speaker and chairman at the CHISA 2012 conference, Prague; Keynote speaker and chairman at the International conference on Green Technology for environmental Pollution, Prevention and Control, Tiruchirappalli, India, 2014. Member of the scientific board of several international conferences. Visiting professor at the University of the Philippines, Diliman, 2017

Citation in the volume “Who’s who in Science and Engineering” and “Who’s who in the world”, Marquis eds. (USA),

**Expertise:** Transport Phenomena; Food Engineering; Modeling, Control and Optimization of Chemical processes; Biotechnology and Bioengineering, Membrane Science and Technology.

## Articles published on peer-reviewed scientific journals

Saha, K., Verma, P., Sikder, J., Chakraborty, S., Curcio, S., Synthesis of chitosan-cellulase nanohybrid and immobilization on alginate beads for hydrolysis of ionic liquid pretreated sugarcane bagasse, *Renewable Energy*, (2019), vol. 133, 66-76.

Saha, K., Maharana, A., Sikder, J., Chakraborty, S., Curcio, S., Drioli, E., Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor, *Catalysis Today*, (2019), DOI: <https://doi.org/10.1016/j.cattod.2017.11.031>.

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Curcio, S., Petrosino, F., Morrone, M., De Luca G., Interactions between proteins and membrane surface in multiscale modeling of organic fouling, *Journal of Chemical Information and Modeling*, (2018), vol. 58 (9), 1815-1827.

Baldino, N., Laitano, F., Lupi, F.R., Curcio, S., Gabriele, D., Effect of HPMC and CMC on rheological behavior at different temperatures of gluten-free bread formulations based on rice and buckwheat flours, *European Food Research and Technology*, (2018), vol. 244 (10), 1829-1842.

Saha, K., Maharana, A., Sikder, J., Chakraborty, S., Curcio, S., Drioli, E., Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor, *Catalysis Today*, (2018), DOI: 10.1016/j.cattod.2017.11.031 - Article in press.

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Aloulou, W., Hamza, W., Aloulou, H., Oun, A., Khemakhem, S., Jada, A., Chakraborty, S., Curcio, S., Ben Amar, R., Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support, *Applied Clay Science* (2018), vol. 155, 20-29.

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artificial neural networks and hybrid systems, *Desalination*, (2009), vol. 236, 234-243.

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