

Prof. Enrico Drioli

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Education

Ph.D. in Chemistry, University of Naples 1965

Research Interests

Membranes in Artificial Organs, Integrated Membrane Processes, Membrane Preparation Transport Phenomena, Membrane Distillation and Membrane Contactors, Catalytic Membrane and Catalytic Membrane Reactors

Career

2009 – Present, Visiting Professor, Dept of Energy Engineering, Hanyang University

1981 – Present, Full Professor, University of Calabria

2002 – 2008, Director, Institute on Membrane Technology (ITM) of CNR

2008, Present, Honorary Director, Institute on Membrane Technology

1993 – 2001, Director, Institute on Membranes and Chemical Reactors of the National Research Council

1982 – 1985, Dean of the School of Engineering, University of Calabria

Recent Projects

DEMCAMER, REAPOWER, CAPWA, MEDINA, NANOLOWA, MEDIRAS, NANOMEMPRO, NEMOPUR, IMETI, PROMEMBRANE, INNOWA, etc.

Coordinator and Scientific Responsible for the KACST-ITM Joint research Program.

Professional Activities & Awards

2009, Doctorate Honoris Causa from University of Paul Sabatier of Toulouse, France

2005, International Cooperation Honor Award, Membrane Industry Association of China (MIAC) for special dedication to International Cooperation between China and Europe in the field of membrane science and technology

2005 – Present, Guest professor, Jiangsu Polytechnic University, China

1999, Honorary President, European Membrane Society

1992, Doctorate Honoris Causa in Chemistry and Chemical Technology, Russian Academy of Science

1991, Honorary Professor, China Northwest University in Xi'an, Shaanxi, China

1982 – 1998, President, European Society of Membrane Science and Technology (European Membrane Society)

1981 – Present, Full Professor, University of Calabria

Advisory Board of the “Journal of Membrane Science” and the “Polish Journal of Chemical Technology”; Editorial Board of Desalination, Separation Science and Technology and various other inter. scientific Journals.

Exec. Editor: Applied Water Science Journal, Springer Berlin Heidelberg (Germany)

Exec. Editor (for Europe): Membrane Water Technology, Techno Press (Korea)

Author of about 600 scientific papers, 18 patents, and 18 books**Selected Publications**

1. Water droplets as template for next generation self-assembled poly-(etheretherketone) with Cardo membranes, *J. Phys. Chem B* 112 (34) (2008), 10483-10496
2. Potential of membrane distillation in seawater desalination: Thermal efficiency, sensitivity study and cost estimation, *Journal of Membrane Science* 323 (2008) 85–98
3. Probabilistic aspects of polymorph selection by heterogeneous nucleation on microporous hydrophobic membrane surfaces, *Journal of Crystal Growth*, 2008, 310/24(5364-5369)

4. Controlling polymorphism with membrane-based crystallizers: application to form I and II of paracetamol; *Chemistry of materials*. 2007. 19(9), 2386-2388.
5. Kinetic study of a biocatalytic membrane reactor containing immobilized β -glucosidase for the hydrolysis of oleuropein, *Journal of Membrane Science* 339 (1-2) 2009, 215-223.
6. Perspective: Membrane engineering for process intensification: a perspective, *J Chem Technol Biotechnol* 82 (2007) 223–227