

Elena TOCCI



Senior Researcher at the Institute on Membrane Technology “Enrico Drioli” of the Italian National Research Council (CNR-ITM), Italy, where she has been active since 2000, Dr. Elena Tocci is Head of the Laboratory of Molecular Simulation. Her research focuses on molecular simulation and modeling of membrane materials and membrane-based separation processes, with particular emphasis on gas separation, membrane assisted crystallization, water treatment, ionic liquid–based systems, and advanced functional membranes.

She has led and participated in numerous national and international research projects and has established long-standing bilateral collaborations with leading institutions in China, South Korea, and Turkey. In 2025, she was awarded the International Excellence Fellowship at the Karlsruhe Institute of Technology (KIT), Germany, within the University of Excellence Framework “The Research University in the Helmholtz Association – Living the Change.” She currently serves as President of the World Association of Membrane Societies (WAMS) and previously served as President of the European Membrane Society (2023–2025).

She is the author of more than 100 peer-reviewed publications and has delivered over 35 invited lectures at major international conferences. Her scientific activity integrates theoretical modeling with experimental collaboration, contributing to the rational design of advanced membrane materials. She has supervised postdoctoral researchers, PhD candidates, and graduate students and coordinates research training activities in molecular modeling applied to membrane science. She serves as Adjunct Faculty at Gyeongsang National University (Korea) and as Guest Professor at Central South University (China).