

SUMMARIZED CV

CELIO CAVALCANTE is a Professor of Chemical Engineering at Universidade Federal do Ceará (UFC), in Fortaleza, Brazil. After obtaining his Bachelor's degree in Chemical Engineering at Universidade Federal da Bahia (UFBA, Brazil), he worked for 12 years as a Process and R&D engineer in a petrochemical complex in Camaçari, Brazil, through which he got involved with the p-xylene adsorption separation process using zeolites (Parex-UOP). Moving back to academia, he completed his PhD studies at the University of New Brunswick (UNB, Canada) and then joined the Chemical Engineering Department at UFC in 1994. At UFC, among other positions, he has been Department Head, Associate Dean of Engineering and Associate Provost of Research and Graduate Studies. He has acted as Scientific Director of the Research Funding Agency of the State of Ceará, and as member of several scientific and evaluation committees in Brazilian research support agencies. He has spent sabbatical leaves at Vanderbilt University (USA) and Vrije Universiteit Brussel (Belgium). He also served at the Board of Directors of the International Adsorption Society (IAS), Board of Directors of the Brazilian Chemical Engineering Association (ABEQ) and Board of International Advisors of the Smart Energies Excellence Campus with Univ. Rey Juan Carlos (Spain). He was editor of the Brazilian Journal of Chemical Engineering (ABEQ flagship scientific journal) and member of the editorial board of several international journals. His research interests encompass all aspects of adsorption (from fundamentals to process applications) and development of novel reaction and separation processes with environmental and sustainability relevance (such as carbon capture and biomass valorization).