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He has also co-authored the first book on the “Fundamentals of Process Intensification” (Wiley VCH, 2019). His research activity includes modeling, design and development of intensified reactors and reactive separation processes for a broad range of applications including, among others, biomass gasification, reforming of hydrocarbons and oxygenated fuels, CO₂ utilization, polymerization and reactive crystallization. He is the head of the Chemical Process Engineering Laboratory (CPEL) at NTUA, Chairman of the EFCE Working Party on Process Intensification, Executive Editor of the Chemical Engineering and Processing: Process Intensification Journal (Elsevier) and serves on the Scientific Committee of the Association for Microwave Power in Europe for Research and Education (AMPERE).