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Paper Title: Solar Vacuum Membrane Distillation for Desalination in Arid Regions

Bio :

Dr. Atia E. Khalifa is a Professor in the Mechanical Engineering department and the Interdisciplinary Research Center for Sustainable Energy Systems at King Fahd University of Petroleum & Minerals (KFUPM), Dhahran-Saudi Arabia. His research focuses on advanced desalination—particularly membrane distillation and humidification–dehumidification, Renewable energy utilization, pipeline leak detection, pumping machinery, and combustion. He has published extensively in peer-reviewed journals and international conferences and holds multiple U.S. patents mainly in desalination technologies and in-pipe leak-detection systems. Prof. Khalifa also leads and co-leads interdisciplinary, industry-aligned projects aimed at delivering energy-efficient, sustainable water and energy solutions.