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Ş. Birgül Tanteekin-Ersolmaz is a Professor of Chemical Engineering at Istanbul Technical University (ITU), where she leads the Membrane Materials and Separations (MeMaSep) research group. She is also the head of the Membrane Separations Laboratory at the Center for Synthetic Fuels and Chemicals (ITU-SENTEK). She received her BS degree in Chemical Engineering from ITU and MS and PhD degrees in Chemical Engineering from the University of Colorado, Boulder. Her research interest lies in the cross-sections of molecular separations, advanced materials, and membranes for applications in energy, water, and the environment. Specifically, her work involves the synthesis of novel, high-performance polymers, the fabrication of polymer-based composite and nanocomposite membranes for gas and liquid separations, and the development of structure/property relationships to guide these investigations.