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SHORT BIO:

Dr. Canan Acar is an Associate Professor at the University of Twente, where she leads the Sustainable Energy Transition and Hydrogen (SETH) research line.

With over 15 years of experience in hydrogen production, storage, end-use applications, and full-chain system integration, her work addresses both the technical and strategic dimensions of hydrogen's role in sustainable and circular energy systems.

Her current projects include integrated hydrogen systems for industrial clusters; integrated fuel cell and heat pump systems for more resilient decarbonized residential heating; and offshore renewable hydrogen pathways for the Mediterranean blue economy.

At NANOSMAT 2026, she presents *From Hydrogen Production to System Impact: Pathways for Net-Zero Energy Transitions*.