

Fuel Cells of Tomorrow: Advancing Technology for a Sustainable Energy Future

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Speaker Biography

Dr. Tatyana V. Reshetenko has over 25 years of experience in material science, with an emphasis on catalysis, electrocatalysis, electrochemistry, and fuel cells. She earned her MS degree in Catalysis and Adsorption (1998) and PhD in Catalysis (2003) from Novosibirsk State University and Boreskov Institute of Catalysis, Russia. After completing her graduate work on synthesis of catalysts for methane conversion and novel carbon materials, she transitioned to the private industry sector and worked at Samsung SDI (Suwon, Korea) where she launched her career in the field of fuel cell research.

Dr. Reshetenko joined the Hawaii Natural Energy Institute at the University of Hawaii at Manoa in 2007 as a post-doctoral fellow, working on the evaluation of proton exchange membrane fuel cells (PEMFCs) performance under different operating and environmental conditions, using advanced electrochemical methods. She was appointed Junior Researcher in 2011 and Assistant Researcher in 2015 and continued her research on the characterization of electrochemical conversion and storage systems, utilizing innovative and sophisticated methods such as the segmented cell system and electrochemical impedance spectroscopy.

Dr. Reshetenko's current research projects include the design and studies of anion membrane fuel cells and the development of novel characterization methods applicable for fuel cells and electrochemical conversion systems.

Dr. Tatyana Reshetenko has successfully led and participated in numerous DOE, ARO, ONR, and industry-funded projects. She has published over 70 peer-reviewed papers, several patents, and book chapters.

