

Biography: Prof. Iryna Zenyuk

Associate Professor, Chemical and Biomolecular Engineering, University of California Irvine

Professor Zenyuk holds a B.S. (2008) in mechanical engineering from the New York University Tandon School of Engineering. She continued her studies at Carnegie Mellon University, where she earned M.S. (2011) and Ph.D. (2013) in mechanical engineering. Her graduate work focused on fundamental understanding of electric double layers in electrochemical energy-conversion systems. After a postdoctoral fellowship at Lawrence Berkeley National Laboratory in Electrochemical Technologies Group, Zenyuk joined the faculty of the Mechanical Engineering Department at Tufts University in 2015. In July 2018 she joined Department of Chemical and Biomolecular Engineering at University of California, Irvine, where she is also a Director of the National Fuel Cell Research Center.

At UC Irvine, Zenyuk's group works on enabling energy solutions by researching low-temperature hydrogen fuel-cells, Li-metal batteries and electrolyzers. Zenyuk works on design strategy encompassing novel materials, diagnostic tools and device-level testing.

She is a recipient of the NSF CAREER award (2017), Interpore society Fraunhofer Award for Young Researchers (2017), Research Corporation for Science Advancement, Scialog Fellow in Advanced Energy Storage (2017-2019), Electrochemical Society (ECS) Toyota Young Investigator Award (2018), UCI Samueli School of Engineering Early Career Faculty Excellence in Research Award (2019) and ECS Energy Technology Division Srinivasan Young Investigator Award (2021), UCI Beal Applied Innovations Early Career Innovator of the Year (2021), UCI Samueli School of Engineering Mid Career Faculty Excellence in Research Award (2022). Prof. Zenyuk published over 80 journal publications and delivered more than 100 invited presentations on topics of energy conversion and storage.

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