Prof. Bertrand Neyhouse

Reactor design strategies for next-generation electrochemical systems

Bertrand is an Assistant Professor at the University of Toronto in the Department of Chemical Engineering & Applied Chemistry. His research group leverages fundamental chemical and electrochemical engineering principles to design and intensify electrosynthetic processes. Prior to joining the University of Toronto, he completed postdoctoral research at the University of Michigan with Prof. Anne McNeil, advancing electrochemical approaches for PVC recycling. He received his Ph.D. in Chemical Engineering from MIT, working under the supervision of Prof. Fikile Brushett developing rational design strategies for redox flow batteries. Prior to graduate school, he earned his B.S. in Chemical Engineering from Ohio University where he conducted research with Prof. Gerardine Botte and Prof. Travis White. Bertrand has published over 30 papers in electrochemical engineering, energy storage technologies, and sustainability, and he is a recipient of the NSF Graduate Research Fellowship and the Martin Fellowship for Sustainability. His passion lies in educating the next generation of chemical engineers and developing electrochemical technologies to address modern sustainability challenges.

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