



The Engineering Institute of Canada

2023 Award Citation

EIC Fellow



Charles Xu

Nominated by the Canadian Society for Chemical Engineering

Dr. Charles Xu is a Professor of Chemical and Biochemical Engineering at Western University, Fellow of Chemical Institute of Canada (FCIC) and Fellow of Canadian Academy of Engineering (FCAE). He joined Western at the NSERC/FPInnovations Industrial Research Chair in Forest Biorefinery in 2011, after being Assistant and Associate Professor at Lakehead University for 6 years. Dr. Xu is an internationally recognized leader and innovator in biomass conversion, biorefinery, bioproducts and green process engineering.

His contributions include over 20 inventions & 16 patents in conversion of forestry/agricultural biomass/residues/biowastes/glycerol/sugars into bio-based materials, green hydrogen, bioenergy, biofuels, and biochemicals, and also the transfer of new technologies to industries, such as creating Western Maple Bioresources Inc., a very successful start-up company, for commercialization of VOC-free coatings & formaldehyde-free adhesives.

Dr. Xu has received many awards/honors/recognitions from Canada, China, Japan, Denmark, and New Zealand, including the prestigious Syncrude Canada Innovation Award and the Award in Design and Industrial Practice from CSChE. He is also an outstanding educator, having graduated ~100 PhD/MSc students and published 3 books, 20+ book chapters and 280+ refereed journal papers receiving 15,000+ total citations with an H-index of 67. He has given ~ 90 invited/keynote/plenary lectures/presentations in conferences, companies or institutions around the world.

Ladies and gentlemen, and Ms. President, please welcome Charles Xu as a Fellow of the Engineering Institute of Canada.