

2022 Postdoctoral Award for Achievements in Nanoscience and Nanotechnology in Ontario



Dr. Danielle McRae
University of Waterloo

Dr. Danielle McRae is an NSERC postdoctoral fellow in the Department of Physics at the University of Waterloo. Her research in the Leonenko Lab is focused on using atomic force microscopy to investigate model lipid membranes in relation to Alzheimer's Disease. She completed her Ph.D. in Chemistry at Western University in the group of Prof. Laguné, focusing on tip-enhanced Raman spectroscopy and plasmon-mediated reactions. During this time, she was awarded the L'Oréal Canada France Canada Research Fund Fellowship and the Faculty of Science Teaching Assistant Award. She is dedicated to science outreach, including as a volunteer and former coordinator with Let's Talk Science.

Award for Outstanding Early- career Achievements in Nanoscience and Nanotechnology in Ontario

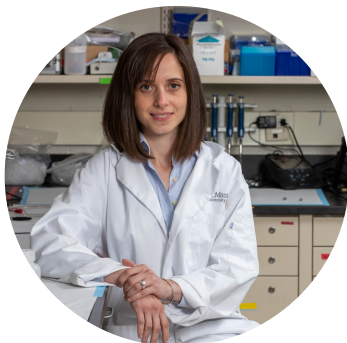


Professor Anna Klinkova
University of Waterloo

Professor Anna Klinkova has been a high performing chemistry professor at the University of Waterloo since 2017. She is among the top-tier of Canadian early stage professorate. In her less than 4 years she has established herself as world-class researcher with international collaborations. She already has 20 independent publications in top-tier journals including in *Nature Communications* and a cover article in *Nature Catalyst*. Dr. Klinkova's area of research is in nano electrocatalysis with important themes in CO₂ reduction which will be drivers for chemical industry renewal towards better sustainability. Her lab has raised \$1.6M and has trained over 40 young researcher, leading to consistent academic awards on their part. Her commitment to science includes membership on several boards, including for the Waterloo Institute for Nanotechnology, as well as others in the Netherlands and Russia. Amongst all of this, Dr. Klinkova's impact is tireless to diversify STEM. To date, her group has trained over 50% of women-identifying people, she is a long-serving member of her Union's Gender and Sexual Diversity Alliance and regularly participates as a speaker to promote women and non-binary scientists working in STEM such as the Out to Innovate Career Summit and Soapbox Science.

Website: <https://klinkovalab.com/>

Award for Outstanding Mid-career Achievements in Nanoscience and Nanotechnology in Ontario



Professor Leyla Soleymani
McMaster University

Dr. Leyla Soleymani received her PhD from University of Toronto in 2010 in Electrical and Computer Engineering and joined McMaster University in 2011 as an Assistant Professor. Dr. Soleymani is currently an Associate Professor in the Department of Engineering Physics and School of Biomedical Engineering at McMaster and is a University Scholar and the Canada Research Chair (Tier II) in Miniaturized Biomedical Devices. Dr. Soleymani was inducted to the Royal Society of Canada, College of New Scholars, Artists and Scientists in 2022. Dr. Soleymani's research is focused on developing biomedical technologies for rapid disease diagnostics and health monitoring, as well as solutions for reducing the spread of infectious diseases. Dr. Soleymani was awarded the Ontario Early Researcher Award in 2016, the Engineering Innovation of the Year Award by the Ontario Society of Professional Engineers in 2020, and the grand prize for Tech Brief's Create the Future Contest in 2020 for her work on biosensors and biointerfaces. Dr. Soleymani has over 75 high-impact publications and holds several patents in the areas of biosensing and biointerfaces with multiple technologies licensed to pharmaceutical and biotechnology companies. Dr. Soleymani's research has been covered in mainstream media and she frequently appears on media outlets promoting the Biomedical Engineering research field.

Website: <https://www.eng.mcmaster.ca/msbe/people/faculty/leyla-soleymani>

Honorary Award for Outstanding Lifetime Achievements in Nanoscience and Nanotechnology in Ontario



Professor Xueliang (Andy) Sun
University of Western Ontario

Dr. Xueliang (Andy) Sun is a Full Professor and senior Canada Research Chair (Tier I) for the development of nanomaterials for clean energy, at the University of Western Ontario, Canada. Dr. Sun received his Ph.D degree in Materials Chemistry at the University of Manchester, UK, in 1999. Dr. Sun's research is focused on advanced materials for energy conversion and storage including Li batteries and fuel cells. Dr. Sun is an author and co-author of over 600 refereed-journals with citations of over 50,000 times and H-index of 117. Dr. Sun was named as one of "Highly Cited Researchers". He edited 4 books and published 20 book chapters as well as filed 24 patents. He has given more than 180 plenary/keynote/invited talks in international conferences, symposia and workshops. Dr. Sun received various awards such as Professional Achievement Awards from Cross-cultural Professionals Association of Canada (CPAC, 2016), Fellow of Royal Society of Canada (2016), Fellow of the Canadian Academy of Engineering (2016), Award for Research Excellence in Materials Chemistry Winner from Canada Chemistry Society (2018), Award of Merit of the Federation of Chinese Canadian Professionals (2018), Western Hellmuth Prizes (The highest Research Achievement Award in the University, 2019) and IBA Battery Technology Award (2021) and Foreign Member of the Chinese Academy of Engineering (2021). Dr. Sun is a Vice Chairman of the International Academy of Electrochemical Energy Science (IAOEES). He also serves as an Editor-in-Chief of "Electrochemical Energy Review" (IF=32) under Spring-Nature.

Website: <http://www.eng.uwo.ca/people/asun/default.htm>