



## “Ocean, Forest & Field – the Bioenergy Playground”

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### **Biography: Dr. Quan (Sophia) He, Dalhousie University**

Quan (Sophia) He is an assistant professor of chemical engineering at Faculty of Agriculture, Dalhousie University since January 2013. Prior to this appointment, she worked as a PDF at University of Waterloo. During 1994-2005, she was an assistant/associated professor at Ningbo University of Technology, China where she taught chemical engineering courses and led her research group working on separation of chiral compounds. From 1990 to 2004, she served as an engineer on process optimization in Heilongjiang Province Compute Research and Application Center. She received her PhD degree in Chemical & Biochemical Engineering from Western University in 2010, her M.Sc. in 2004, and B.Sc. in 1990 from East China University of Science and Technology respectively.

Her research interests include: production of liquid biofuels and value-added bioproducts from biomass; development and application of novel nanocatalyst; separation of chiral compounds by crystallization and extraction; identification of polymorphs of active pharmaceutical ingredients (APIs).

She has been active in the field of reaction and separation engineering for 20 years, with 30 peer-reviewed publications and three patents. She is a recipient of NSERC and MITACS postdoctoral fellowships and OGS scholarship.