

## **Biography of Hai Wang**

Hai Wang is Professor of Mechanical Engineering at Stanford University. Prior to his appointment at Stanford, he was the Northrop Chair in Engineering and Professor of Aerospace and Mechanical Engineering at USC. He received his Ph.D. in Fuel Science from Penn State in 1992. He was a Professional Research Staff at Princeton University from 1994 to 1996 before starting his faculty career at the University of Delaware. He is best known for his work on the mechanism of soot formation in combustion and development of chemical kinetic models for fuel combustion. He has made contributions in the application of ab initio quantum chemistry and reaction rate theory in chemical kinetics. He developed stochastic methods for detailed combustion modeling and uncertainty quantification. He contributed to the transport theory of nanoparticles and large molecules, atmospheric heterogeneous chemistry, nanocatalysis, and nanomaterials synthesis, characterization and applications. He is the recipient of the NSF CAREER award in 1999, two distinguished paper awards in 2009 and 2015 from the Thirty-First and Thirty-Fifth International Symposia on Combustion, a Senior Research Award from the Viterbi School of Engineering at USC in 2011, and the AIAA Propellant and Combustion Award in 2018. He is a fellow of ASME and the Combustion Institute. He currently serves as the Editor-in-Chief of *Progress in Energy and Combustion Science*.