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Professor in the Department of Atmospheric and Oceanic Science and ESSIC at the University of Maryland, adjunct 1000-Plan professor at the Beijing Normal University, President of Chinese-American Oceanic and Atmospheric Association. He has been engaged in a wide range of studies concerning climate change, atmospheric physics, and terrestrial and atmospheric environments. He has developed a suite of remote sensing algorithms, products, and systems (surface albedo, BRDF, fire hotspot and burned areas, SRB, PAR, UV, cloud and aerosol parameters, precipitation). He has drastically revised the once commonly-held notion concerning the disposition of the solar radiation budget, resolved the puzzle of the cloud absorption anomaly, and discovered the long-term impact of aerosols on climate. He has served as chief scientist for two international experiments: EAST-AIRE and the DOE's AMF-China. He has received 6 major awards, e.g. the Head of Public Service Award of Canada, the Alouette Award, the Medal of Technology in Government, and the Agatha Bystram Information Award. He has authored 195 articles in leading journals, including *Nature*, *Science*, and *Nature-Geoscience*, with an h-index of 35. He is an editor of the *Journal of Geophysical Research: Atmospheres* and *Advances in Meteorology*.