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of cloud microphysics parameterizations for weather and climate models, and (4) impacts of marine organic aerosols and dust on mixed-phase clouds.

Jiwen has published over 110 peer-reviewed journal articles including the high-impact journals such as *Science*, *Nature Geoscience*, *Nature Communications*, *Proceedings of the National Academy of Sciences of the United States of America*. She was 2015 AGU ASCENT award for exceptional mid-career scientists. She has led and co-led several large collaborative research projects including the DOE Climate Model Development and Validation (CMDV) on mesoscale convective systems (CMDV-MCS) and the Enabling Aerosol-cloud interactions at GLobal convection-permitting scales (EAGLES). She is the editor of *Journal of Advances in Modeling Earth Systems* (JAMES).