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Dr Ying-Ping Wang completed his PhD in plant ecophysiology from the Department of Forestry and Natural Resources, University of Edinburgh in 1988, and moved to CSIRO, Australian in 1990. He currently is a chief research scientist in CSIRO. He is one of three key scientists responsible for developing the Australian community land surface model (CABLE) that has over 100 registered users from 51 institutions in 13 countries. He has published over 130 papers in major international journals including 10 in *Sciences*, *PNAS*, *Nature* and its family journals. His major achievements include the development of the Australian community land model (CABLE), two-leaf canopy scheme, the unified theory of global nitrogen fixation, and the first global model of carbon, nitrogen and phosphorus cycles and applications in estimating the effectiveness of afforestation, allowable CO₂ emissions for achieving a 2 °C warming. His main research interests are global land modelling, global biogeochemical cycles, land use change, nutrient limitation, model-data fusion and model benchmarking.