

**Yiqi LUO**

*Dept. of Microbiology & Plant Biology  
University of Oklahoma, USA*

Yiqi Luo is Professor of Ecology at the University of Oklahoma and an AAAS fellow. He is an international leader in integrated data-model research. His major research areas are in Earth system sciences, ecosystem ecology, global change biology, biogeochemistry, and ecological modeling. He has conducted or been involved in various global change experiments in grasslands, forests, deserts, and wetlands. He pioneered in development and applications of data assimilation to ecological research for improving models against data from multiple sources. His group has also developed a Terrestrial ECOsystem (TECO) model and worked with Community Land Models (CLM). Recently he has developed a general theory of terrestrial carbon storage dynamics. The theory potentially offers novel approaches to uncertainty analysis of global carbon cycle modeling. In addition, his group has invented an analytic approach to spin-up and a traceability framework for evaluation and improvement of Earth system models (ESMs). He has published books and nearly 300 papers in peer-reviewed journals, such as *Science*, *Nature*, *PNAS*, *Global Change Biology*, and *Ecology*. His Google Scholar citation is more than 16,000 with *h*-index of 66. More information can be found from <http://ecolab.ou.edu> about his research program.