

# Plant, Cell & Environment

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**Cover caption:** Flux gradient inlet system for water vapor oxygen isotope measurements in a soybean field in Minnesota. Welp *et al.* pp. 1214–1228 used a tunable diode laser to make high speed measurements of the oxygen isotopic composition of water vapor above a soybean canopy for the entire growing season of 2006. Measurements were used to calculate the isotopic composition at the sites of evaporation in leaves and to test several theories concerning the dynamics of atmospheric water vapor and water evaporation in leaves.

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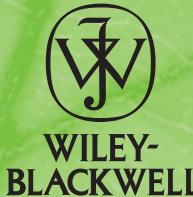
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Canopy scale measurements of  $\text{H}_2^{18}\text{O}$