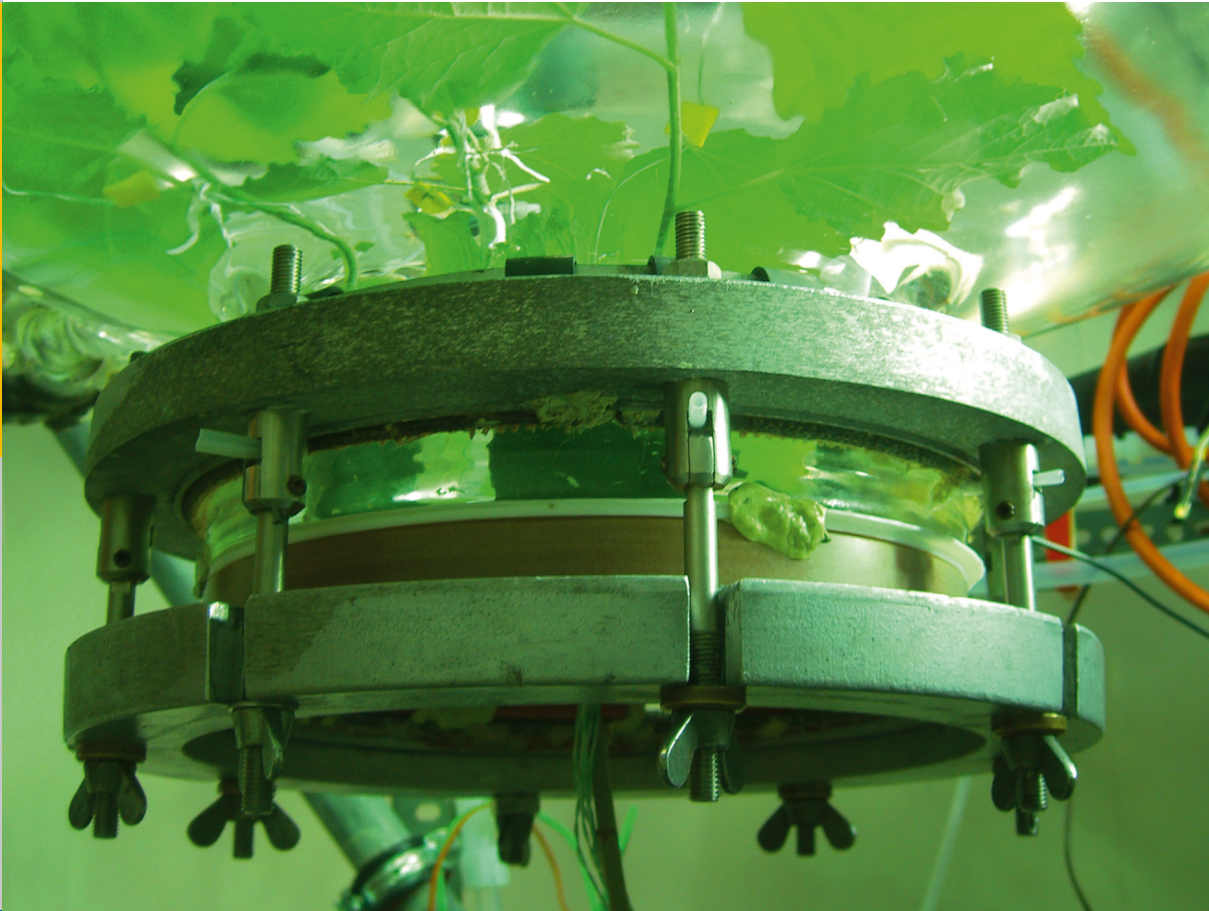


# Real-time quantification of oxygen isotope exchange between carbon dioxide and leaf/soil water in terrestrial ecosystems with laser-based spectroscopy

Laura Gangi



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