AN IMPROVED MICROELECTRODE METHOD REVEALS SIGNIFICANT EMISSION OF NITROUS OXIDE FROM THE RHIZOSPHERE SOIL: RESULTS FROM A CASE STUDY

X. Li, W. Qin, K. Manevski, Y. Zhang, et al.

**Method improvement process**

Comparison of two calibration mediums

- Pure water: $-0.36 \, \mu\text{mol cm}^{-3} \text{s}^{-1}$
- Soil solution: $0.39 \, \mu\text{mol cm}^{-3} \text{s}^{-1}$

Which soil solution to use?
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Method application process

Micro-environment incubation experiment
N$_2$O increase by (mixed-effects additive model):
* rhizosphere soil
* urea addition
* manure fertilization