

# 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.

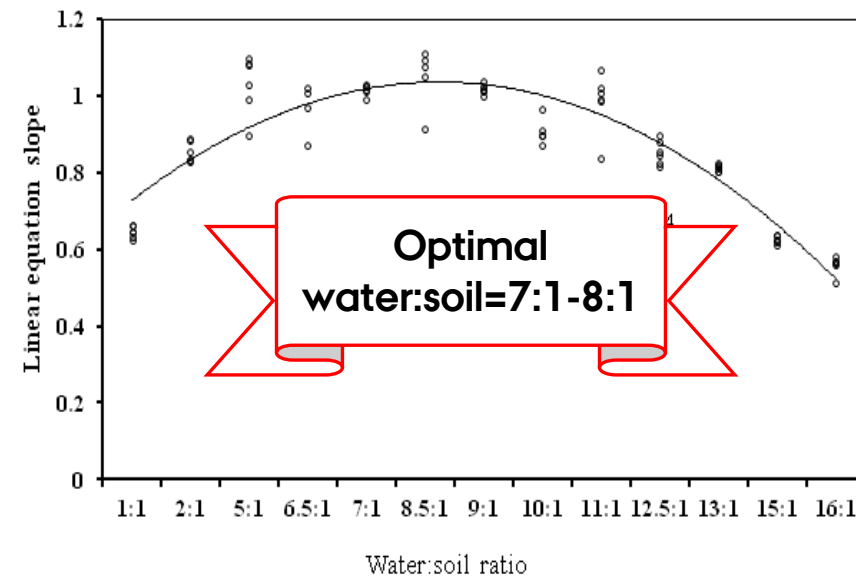
## Method improvement process

### 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<sub>2</sub>O increase by (mixed-effects additive model):

- \*rhizosphere soil
- \*urea addition
- \*manure fertilization

