

DYNAMIC MONITORING OF N₂O DIFFUSION & REDUCTION IN AGRICULTURAL SOIL AT VARIABLE MOISTURE

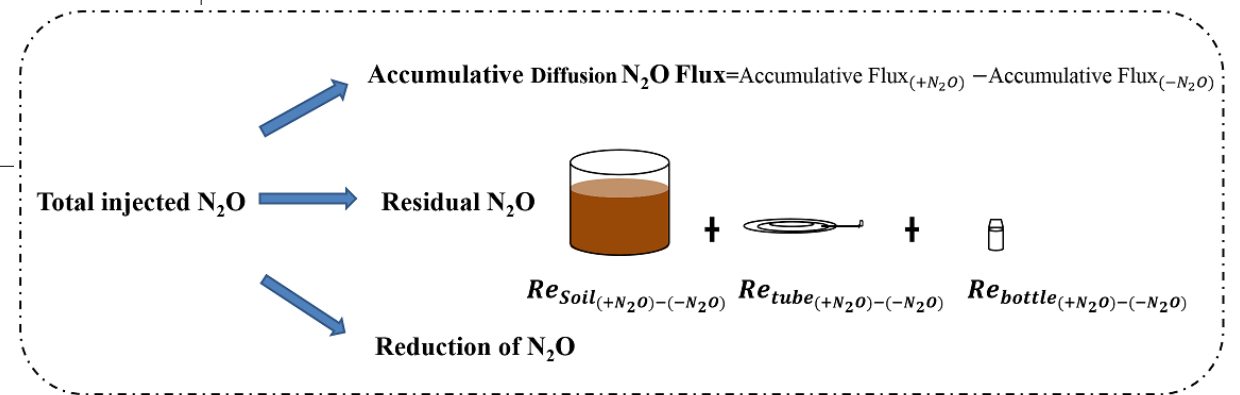
X. Li, K. Manevski, Y. Zhang, et al.

Chinese Academy of Sciences, Aarhus University, Sino-Danish Center

Method design

- 1 Inflatable and incubation system
- 2 Data collection system
- 3 N₂O gas analyses system

Mass balance with and without N₂O injection

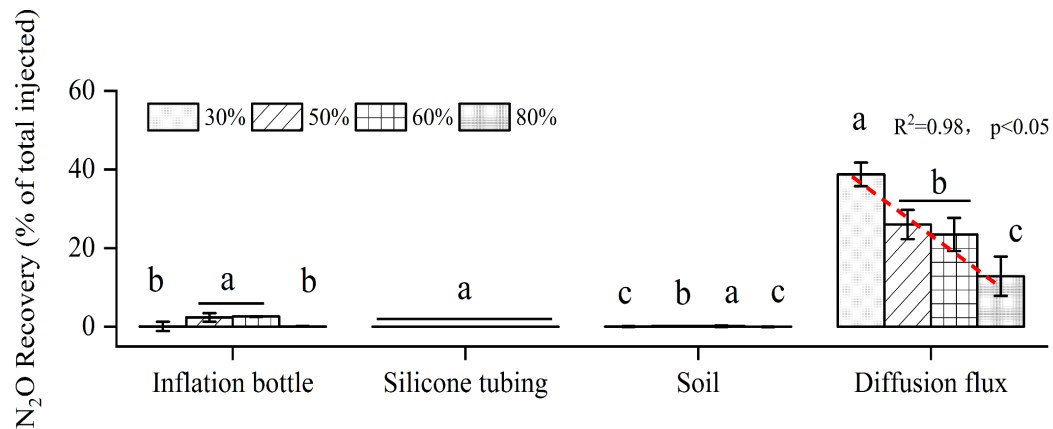


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Method application



Correlation modelling

Partial least squares regression

Structural equation model



N₂O reduction =

= f (moisture, NO₃-N, DOC, nosZ)

standard protocol if interpret with kinetics theory?