

# Environmental Science: Atmospheres

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## IN THIS ISSUE

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### Cover

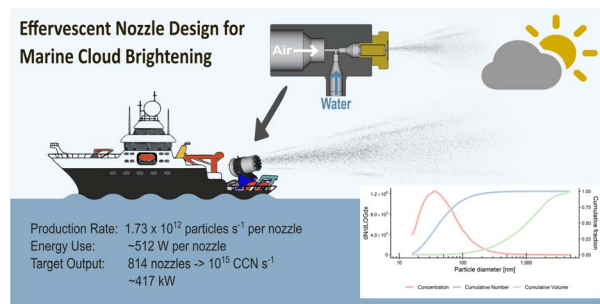
See Luke P. Harrison *et al.*, pp. 1071–1080. Image reproduced by permission of Luke P. Harrison, Southern Cross University from *Environ. Sci.: Atmos.*, 2025, 5, 1071. Logo reproduced with permission from EmiControls.

## PAPERS

1071

### Effervescent nozzle design to enable outdoor marine cloud brightening experimentation

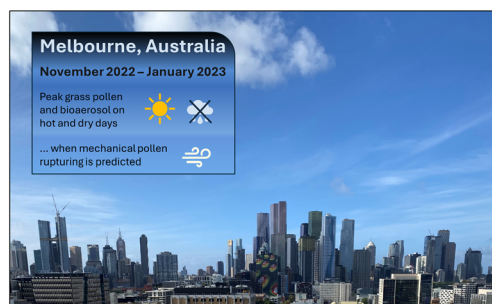
Luke P. Harrison,\* Chris Medcraft and Daniel P. Harrison



1081

### Hot and dry conditions elevate grass pollen and sub-pollen particle concentrations in Melbourne, Australia

C. B. A. Mampage, K. M. Emmerson,\* E. R. Lampugnani, R. Schofield and E. A. Stone\*



# EES Solar

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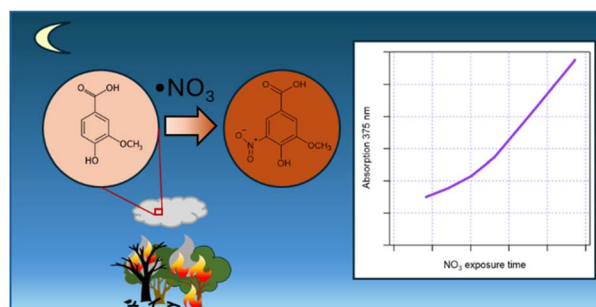
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## PAPERS

1099

# Multiphase reaction of nitrate radicals with vanillic acid aerosols: kinetics and formation of light-absorbing particles

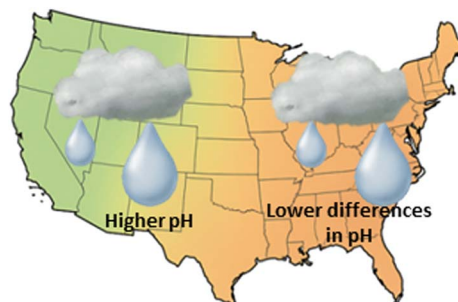
Laura-Helena Rivellini,\* Carolyn Liu-Kang and Jonathan P. D. Abbatt\*



1110

# Size-resolved cloud droplet acidity over the US

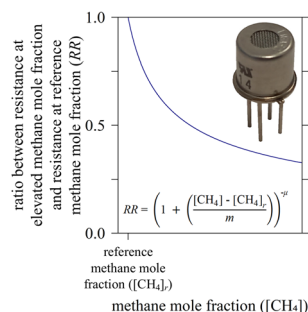
Stylianos Kakavas, Georgios Siderakis and Spyros N. Pandis\*



1119

# Characterising changes in the methane response of a semiconductor-based metal oxide sensor over time

Adil Shah,\* Olivier Laurent, Grégoire Broquet, Clément Romand and Philippe Ciais



This fit does **not** appear to be **influenced** by

- natural passage of time
- power loss
- dry exposure

This fit appears to be **temporarily influenced** by

- water mole fraction

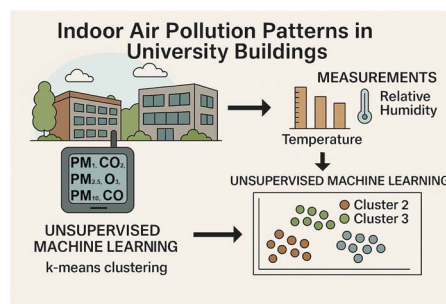
This fit appears to be **permanently influenced** by

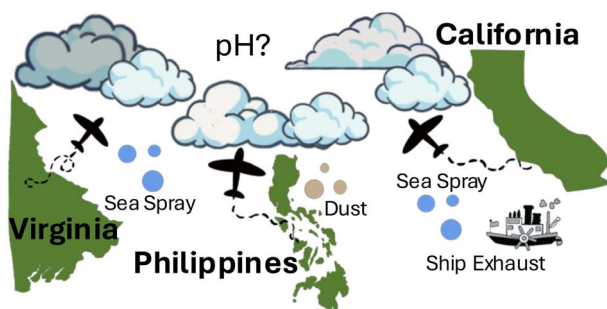
- exposure to certain gases (such as hydrogen sulphide)

1144

# An unsupervised machine learning approach for indoor air pollution analysis

Bárbara A. Macías-Hernández,\* Edgar Tello-Leal,\* Jailene Marlen Jaramillo-Perez and René Ventura-Houle





### Airborne cloud water pH measurements in diverse regions: statistics and relationships with constituents

Kayla M. Preisler, Ewan C. Crosbie, Miguel Ricardo A. Hilario, Grace Betito, Rachel A. Braun, Andrea F. Corral, Eva-Lou Edwards, Alexander B. MacDonald, Ali Hossein Mardi, Michael A. Shook, Connor Stahl, Edward L. Winstead, Kira Zeider, Luke D. Ziemba and Armin Sorooshian\*

