Open Access Article. Published on 13 June 2024. Downloaded on 2/1/2026 1:54:25 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Environmental Science: Atmospheres

rsc.li/esatmospheres

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2634-3606 CODEN ESANC9 4(6) 595–700 (2024)

Cover
See Hinrich Grothe *et al.*, pp. 601–610. Image reproduced by permission of Juergen Gratzl from *Environ. Sci.: Atmos.*, 2024, **4**, 601.

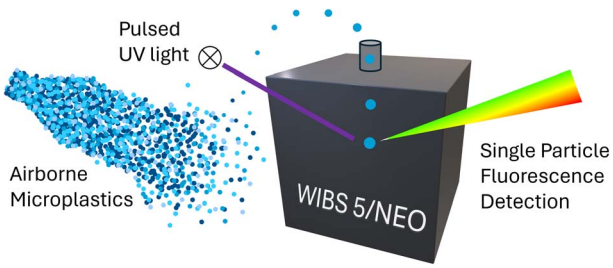
Inside cover
See Nadine Borduas-Dedekind *et al.*, pp. 611–619. Image reproduced by permission of Anna Zeleny from *Environ. Sci.: Atmos.*, 2024, **4**, 611.

PAPERS

601

A fluorescence approach for an online measurement technique of atmospheric microplastics

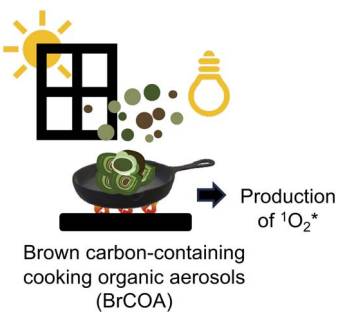
Jürgen Gratzl, Teresa M. Seifried, Dominik Stolzenburg and Hinrich Grothe*



611

Singlet oxygen is produced from brown carbon-containing cooking organic aerosols (BrCOA) under indoor lighting

Nadine Borduas-Dedekind,* Keighan J. Gemmell, Madushika Madri Jayakody, Rickey J. M. Lee, Claudia Sardena and Sebastian Zala



View Article Online

ROYAL SOCIETY OF CHEMISTRY

RSC Advances

At the heart of open access for the global chemistry community

Editor-in-chief

Russell J Cox
Leibniz Universität Hannover, Germany

We stand for:

Breadth We publish work in all areas of chemistry and reach a global readership

Affordability Low APCs, discounts and waivers make publishing open access achievable and sustainable

Quality Research to advance the chemical sciences undergoes rigorous peer review for a trusted, society-run journal

Community Led by active researchers, we publish quality work from scientists at every career stage, and all countries

Submit your work now

rsc.li/rsc-advances

@RSC_Adv

Registered charity number: 207890

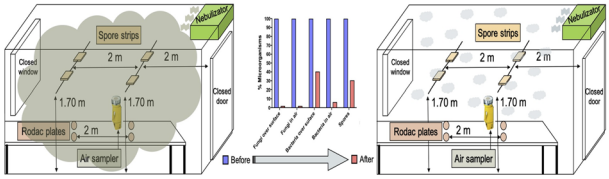
Open Access Article. Published on 13 June 2024. Downloaded on 2/1/2026 1:54:25 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

620

Antimicrobial activity of safe concentrations of ozone, hydrogen peroxide, and triethylene glycol in air and surfaces

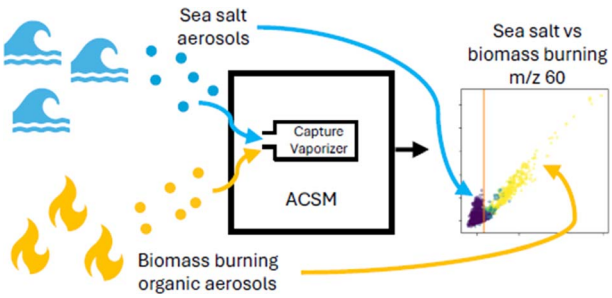
Joan Truyols-Vives, Salut Botella-Grau, Josep Mercader-Barceló and Herme G. Baldoví*



634

Interference of sea salt in capture vaporizer-ToF-ACSM measurements of biomass burning organic aerosols in coastal locations

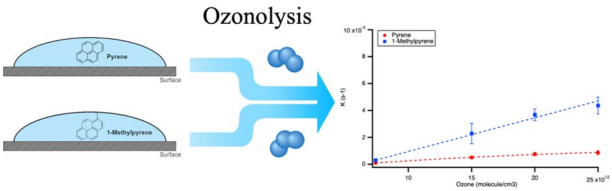
Adhitya Sutresna,* Melita Keywood, Clare Paton-Walsh, Jack Simmons, Caleb Mynard, Quang Dang, Michihiro Mochida, Sho Ohata, Sonia Afsana, Bhagawati Kunwar, Kimitaka Kawamura, Ruhi Humphries, Erin Dunne, Jason Ward, James Harnwell, Fabienne Reisen, Kathryn Emmerson, Alan Griffiths, Alastair Williams, Robyn Schofield and Peter Rayner



645

Heterogeneous ozonolysis of alkyl substituted-polycyclic aromatic hydrocarbons (AlkPAHs) in the atmosphere

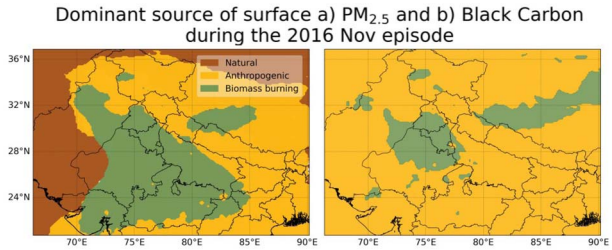
Vera Zaherddine, Elisabeth Galarneau and Arthur W. H. Chan*



655

Quantifying the dominant sources influencing the 2016 particulate matter pollution episode over northern India

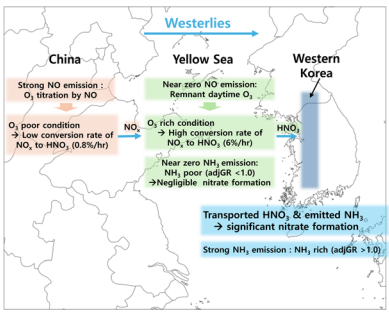
Prerita Agarwal,* David S. Stevenson* and Mathew R. Heal



Open Access Article. Published on 13 June 2024. Downloaded on 2/1/2026 1:54:25 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

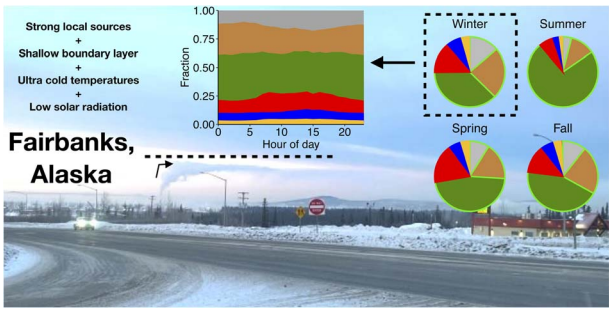
670



The formation and transport of HNO_3 over the Yellow Sea and its impact on the January 2018 $PM_{2.5}$ episode in Seoul

Hyeon-Yeong Park, Joon-Young Ahn, Sung-Chul Hong, Jae-Bum Lee and Seog-Yeon Cho*

685



Multi-year, high-time resolution aerosol chemical composition and mass measurements from Fairbanks, Alaska

Ellis S. Robinson,* Michael Battaglia,, Jr James R. Campbell, Meeta Cesler-Maloney, William Simpson, Jingqiu Mao, Rodney J. Weber and Peter F. DeCarlo*

This journal is © The Royal Society of Chemistry 2024