

# Environmental Science: Atmospheres

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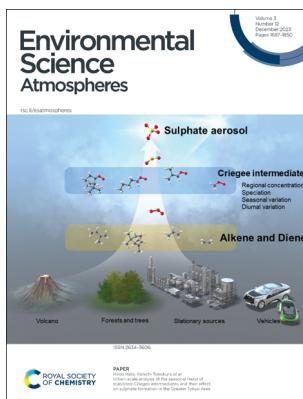
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ISSN 2634-3606 CODEN ESANC9 3(12) 1687–1850 (2023)



### Cover

See Sylvain Gnamien *et al.*, pp. 1741–1757. Image reproduced by permission of Alain Koffi, Yapo Jean, Cathy Liousse, Sylvain Gnamien and Kambou Sia from *Environ. Sci.: Atmos.*, 2023, 3, 1741.



### Inside cover

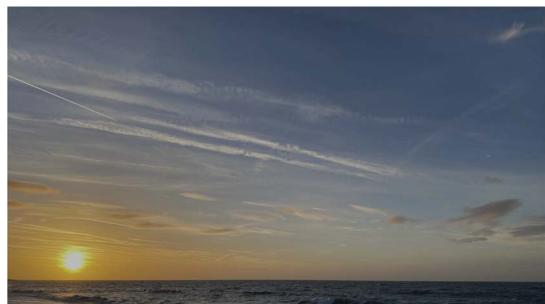
See Hiroo Hata, Kenichi Tonokura *et al.*, pp. 1758–1766. Image reproduced by permission of Hiroo Hata from *Environ. Sci.: Atmos.*, 2023, 3, 1758.

## CRITICAL REVIEW

1693

### Uncertainties in mitigating aviation non-CO<sub>2</sub> emissions for climate and air quality using hydrocarbon fuels

David S. Lee,\* Myles R. Allen, Nicholas Cumpsty, Bethan Owen, Keith P. Shine and Agnieszka Skowron



## PAPERS

1741

### Chemical characterization of urban aerosols in Abidjan and Korhogo (Côte d'Ivoire) from 2018 to 2020 and the identification of their potential emission sources

Sylvain Gnamien,\* Cathy Liousse, Sékou Keita, Siélé Silué, Julien Bahino, Eric Gardrat, Mohamed Kassamba-Diaby, Arsène Ochou and Véronique Yoboué



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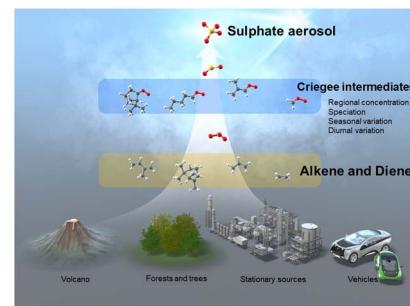


## PAPERS

1758

**Urban-scale analysis of the seasonal trend of stabilized-Criegee intermediates and their effect on sulphate formation in the Greater Tokyo Area**

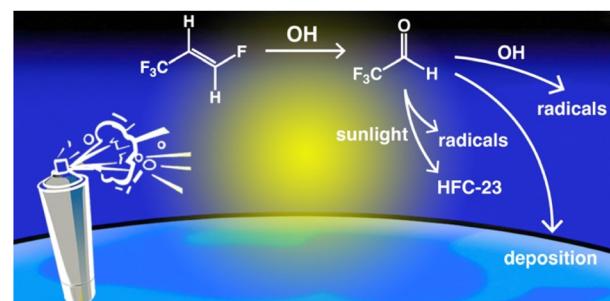
Yuya Nakamura, Hiroo Hata\* and Kenichi Tonokura\*



1767

**Assessing the atmospheric fate of trifluoroacetaldehyde ( $\text{CF}_3\text{CHO}$ ) and its potential as a new source of fluoroform (HFC-23) using the AtChem2 box model**

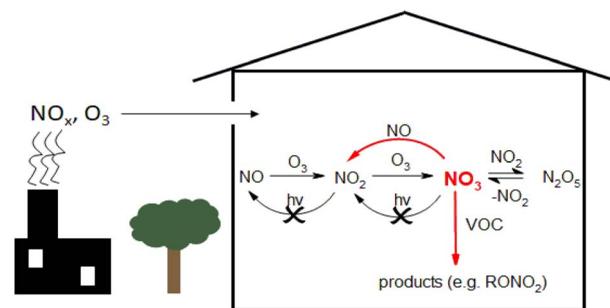
Maria Paula Pérez-Peña,\* Jenny A. Fisher,\* Christopher Hansen and Scott H. Kable



1778

**$\text{NO}_3$  reactivity measurements in an indoor environment: a pilot study**

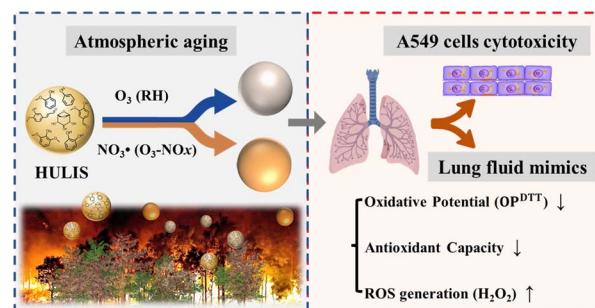
Patrick Dewald, Jos Lelieveld and John N. Crowley\*



1791

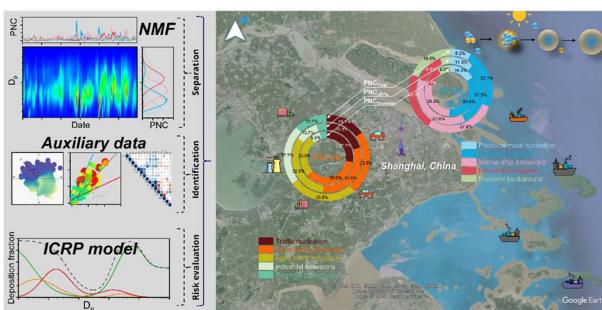
**Atmospheric aging modifies the redox potential and toxicity of humic-like substances (HULIS) from biomass burning**

Chunlin Li, Diego Calderon-Arrieta, Michal Pardo, Dongmei Cai, Alexander Laskin, Jianmin Chen and Yinon Rudich\*



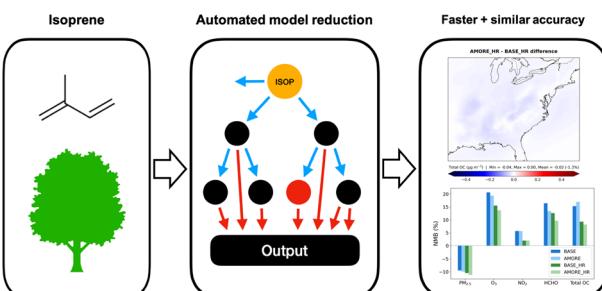
## PAPERS

1805


**Traffic, marine ships and nucleation as the main sources of ultrafine particles in suburban Shanghai, China**

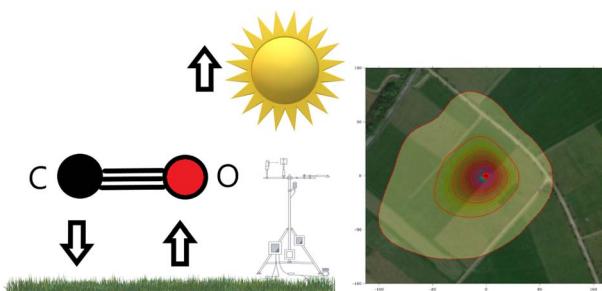
Qingsong Wang, Juntao Huo, Hui Chen,\* Yusen Duan,\* Qingyan Fu, Yi Sun, Kun Zhang, Ling Huang, Yangjun Wang, Jiani Tan, Li Li,\* Lina Wang, Dan Li, Christian George, Abdelwahid Mellouki and Jianmin Chen

1820


**Implementation and evaluation of the automated model reduction (AMORE) version 1.1 isoprene oxidation mechanism in GEOS-Chem**

Benjamin Yang,\* Forwood C. Wiser, V. Faye McNeill, Arlene M. Fiore, Madankui Tao, Daven K. Henze, Siddhartha Sen and Daniel M. Westervelt\*

1834


**Carbon monoxide fluxes measured using the eddy covariance method from an intensively managed grassland in Ireland**

Murphy R. M.,\* Lanigan G., Martin D. and Cowan N.

## CORRECTION

1847

**Correction: Ring-opening yields and auto-oxidation rates of the resulting peroxy radicals from OH-oxidation of  $\alpha$ -pinene and  $\beta$ -pinene**

Ben H. Lee, Siddharth Iyer, Theo Kurtén, Jonathan G. Varelas, Jingyi Luo, Regan J. Thomson and Joel A. Thornton\*

