

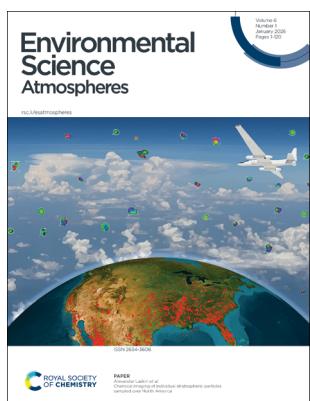
# Environmental Science: Atmospheres

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 6(1) 1–120 (2026)



### Cover

See Alexander Laskin *et al.*, pp. 47–60. Image reproduced by permission of Steven Sharpe and Alex Laskin from *Environ. Sci.: Atmos.*, 2026, 6, 47.



### Inside cover

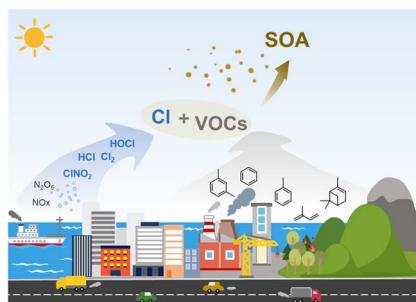
See Lin Du *et al.*, pp. 7–26. Image reproduced by permission of Lin Du from *Environ. Sci.: Atmos.*, 2026, 6, 7.

## CRITICAL REVIEWS

7

### Role of atomic chlorine in atmospheric volatile organic compound oxidation and secondary organic aerosol formation: a review

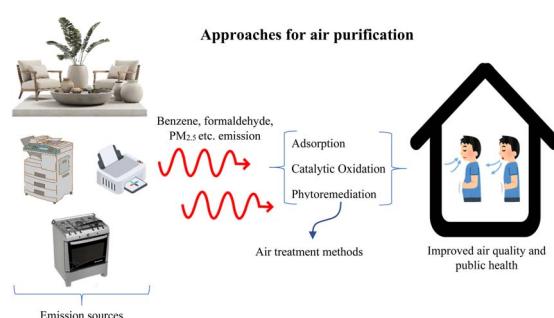
Yinghong Sun, Li Xu, Jianlong Li, Kun Li, Narcisse Tsona Tchinda and Lin Du\*



27

### Adsorption, catalytic oxidation, and phytoremediation for air pollution control: a comprehensive review

Amirreza Talaie, Mohamad Ali Fulazzaky,\* Shahabaldin Rezania and Amin Tamadon\*



# Royal Society of Chemistry approved training courses

Explore your options.  
Develop your skills.  
Discover learning  
that suits you.

**Courses in the classroom,  
the lab, or online**

Find something for every  
stage of your professional  
development. Search our  
database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit [rsc.li/cpd-training](http://rsc.li/cpd-training)

**SAVE  
10%**

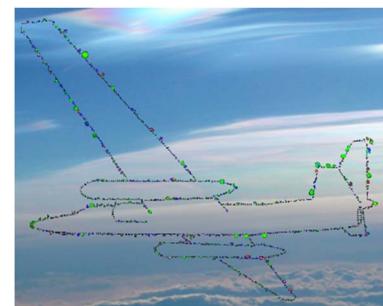


## PAPERS

47

## Chemical imaging of individual stratospheric particles sampled over North America

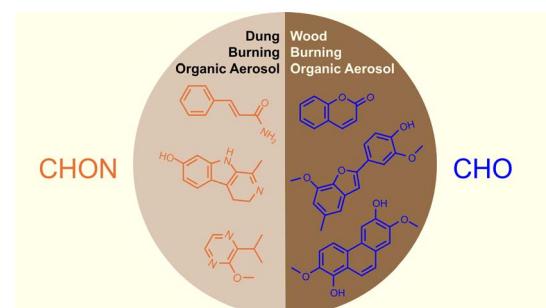
Steven Sharpe, Yaowei Li, Sophia Benjemia, Felipe Rivera-Adorno, Temitope Olayemi, Julius Ese, Xiaoli Shen, Matthew Fraud, Ryan Moffet, Nurun Nahar Lata, Zezhen Cheng, Swarup China, Cameron R. Homeyer, John Dykema, Matthew A. Marcus, Jian Wang, Daniel Cziczo, Frank Keutsch and Alexander Laskin\*



61

## Atmospheric brown carbon from biofuel pyrolysis: comparative analysis of dung and wood sources

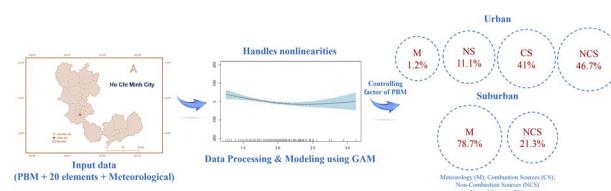
Diego Calderon-Arrieta, Jessica Knull, Shudeepa Sarker, JingKai Wang, Larissa Evans, Julius Ese, Seth M. Koloski, Abigail M. Smith, Nyiri Hajian, Kirby Hill, Baerbel Sinha and Alexander Laskin\*



76

## Revealing discrepancies in potential driving factors of particulate-bound mercury between urban and suburban sites in a Southeast Asian megacity using a generalized additive model

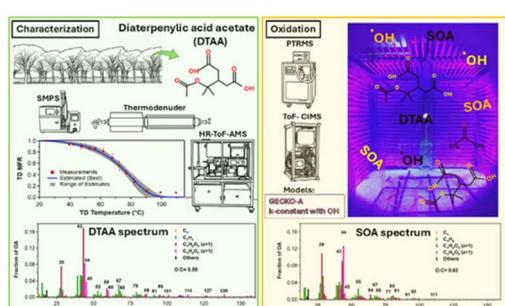
Ly Sy Phu Nguyen,\* Duc Thanh Nguyen, Le Quoc Hau, Guey-Rong Sheu\* and To Thi Hien

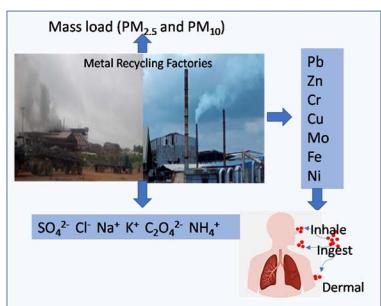


90

## Diaterpenylic acid acetate (DTAA): characterization and OH oxidation in atmospheric chambers

Kalliopi Florou, Spiro Jorga, Agata Blaziak, Christina N. Vasilakopoulou, Petro Uruci, Rafal Szmigielski and Spyros N. Pandis\*





## Chemical composition, sources, and health risks assessment of PM<sub>10</sub> and PM<sub>2.5</sub>-bound metals at an industrial site in Nigeria

Tesleem O. Kolawole, Khanneh W. Fomba,\* Godwin C. Ezech, Akinade S. Olatunji, Khaleel A. Ghazal, Falk Mothes and Hartmut Herrmann\*

