

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(11) 1197–1324 (2024)



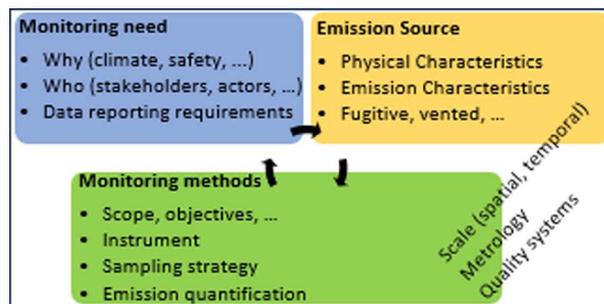
Cover
See Sabine Lühtrath *et al.*,
pp. 1218–1228.
Image reproduced by
permission of Sabine
Lühtrath from *Environ. Sci.:
Atmos.*, 2024, 4, 1218.

PERSPECTIVE

1203

A framework for describing and classifying methane reporting requirements, emission sources, and monitoring methods

Andy Connor,* Jacob T. Shaw, Nigel Yarrow, Neil Howes, Jon Helmore, Andrew Finlayson, Patrick Barker and Rod Robinson

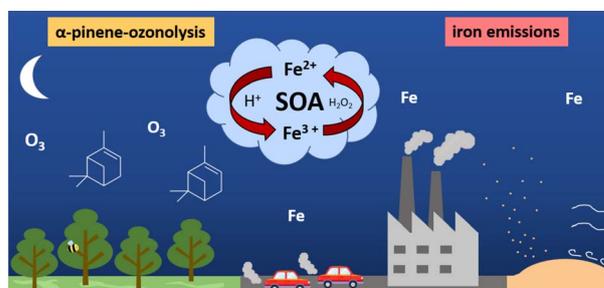


PAPERS

1218

Impact of atmospheric water-soluble iron on α -pinene-derived SOA formation and transformation in the presence of aqueous droplets

Sabine Lühtrath,* Sven Klemer, Clément Dubois, Christian George and Andreas Held



Advance your career in science

with professional recognition that showcases
your **experience, expertise and dedication**

Stand out from the crowd

Prove your commitment
to attaining excellence in
your field

Gain the recognition you deserve

Achieve a professional
qualification that inspires
confidence and trust

Unlock your career potential

Apply for our professional
registers (RSci, RSciTech)
or chartered status
(CChem, CSci, CEnv)

Apply now

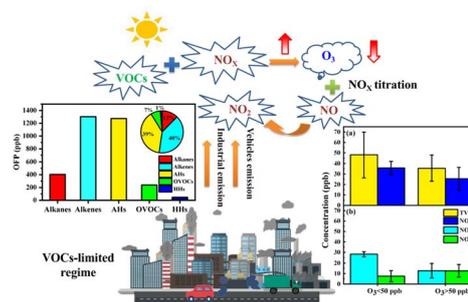
[rsc.li/professional-development](https://www.rsc.li/professional-development)



1229

Ozone formation potential related to the release of volatile organic compounds (VOCs) and nitrogen oxide (NO_x) from a typical industrial park in the Pearl River Delta

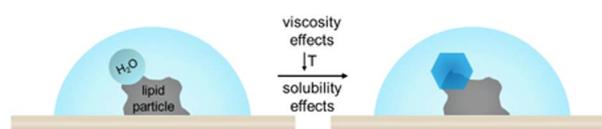
Taicheng An,* Jiajia Li, Qin hao Lin and Guiying Li



1239

Immersion ice nucleation of atmospherically relevant lipid particles

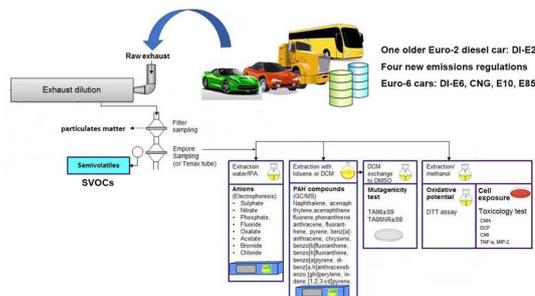
Lincoln Mehndiratta, Audrey E. Lyp, Jonathan H. Slade* and Vicki H. Grassian*



1255

Toxicological evaluation of SVOCs in exhaust emissions from light-duty vehicles using different fuel alternatives under sub-freezing conditions

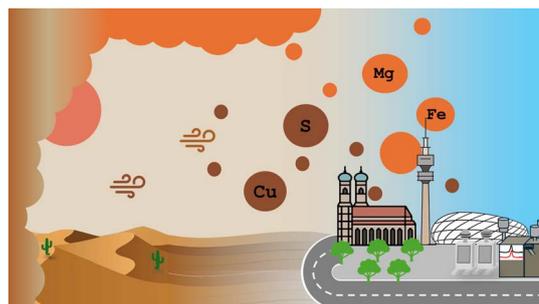
Mo Yang,* Päivi Aakko-Saksa, Henri Hakkarainen, Topi Rönkkö, Päivi Koponen, Xiao-Wen Zeng, Guang-Hui Dong and Pasi I. Jalava



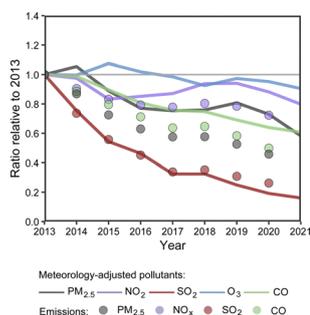
1266

Trace elements in PM_{2.5} shed light on Saharan dust incursions over the Munich airshed in spring 2022

Sara Padoan,* Alessandro Zappi, Jan Bendl, Tanja Herrmann, Ajit Mudan, Carsten Neukirchen, Erika Brattich, Laura Tositti and Thomas Adam*



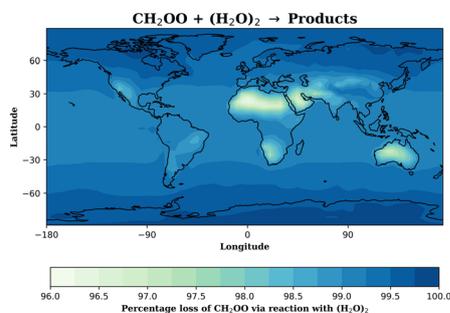
1283



Evaluating emissions and meteorological contributions to air quality trends in northern China based on measurements at a regional background station

Weiwei Pu, Yingruo Li, Xiaowan Zhu, Xiangxue Liu, Di He, Fan Dong, Heng Guo, Guijie Zhao, Liyan Zhou, Shuangshuang Ge and Zhiqiang Ma*

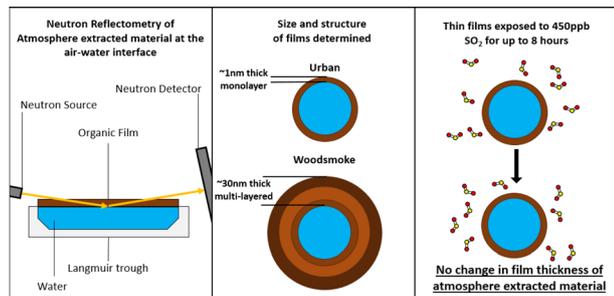
1294



Kinetics of the reactions of the Criegee intermediate CH_2OO with water vapour: experimental measurements as a function of temperature and global atmospheric modelling

Rachel E. Lade, Mark A. Blitz, Matthew Rowlinson, Mathew J. Evans, Paul W. Seakins and Daniel Stone*

1309



Does gas-phase sulfur dioxide remove films of atmosphere-extracted organic material from the aqueous aerosol air–water interface?

Edward J. Stuckey, Rebecca J. L. Welbourn, Stephanie H. Jones, Alexander J. Armstrong, Matthew Wilkinson, James I. L. Morison and Martin D. King*

