

# Environmental Science: Atmospheres

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### Cover

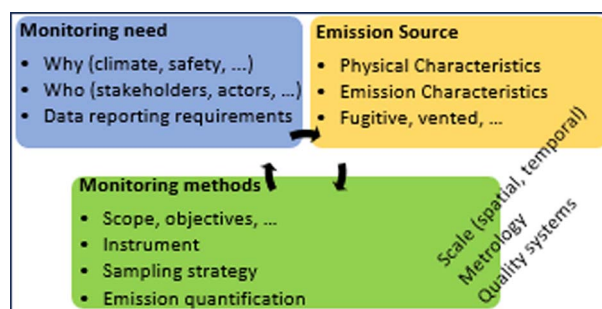
See Sabine Lühtrath *et al.*, pp. 1218–1228.  
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## PERSPECTIVE

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

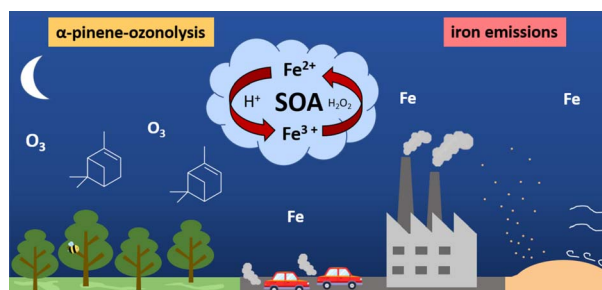


## PAPERS

1218

### Impact of atmospheric water-soluble iron on $\alpha$ -pinene-derived SOA formation and transformation in the presence of aqueous droplets

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



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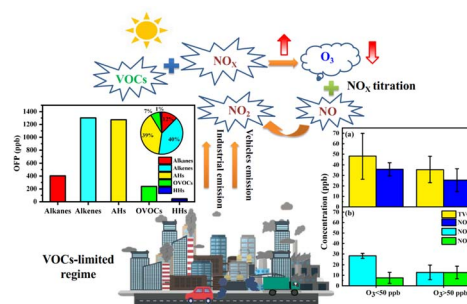
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## Ozone formation potential related to the release of volatile organic compounds (VOCs) and nitrogen oxide (NO<sub>x</sub>) from a typical industrial park in the Pearl River Delta

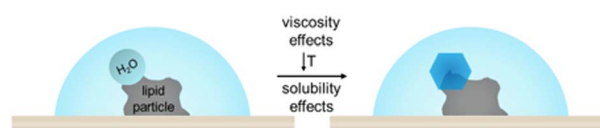
Taicheng An,\* Jiajia Li, Qin hao Lin and Guiying Li



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## Immersion ice nucleation of atmospherically relevant lipid particles

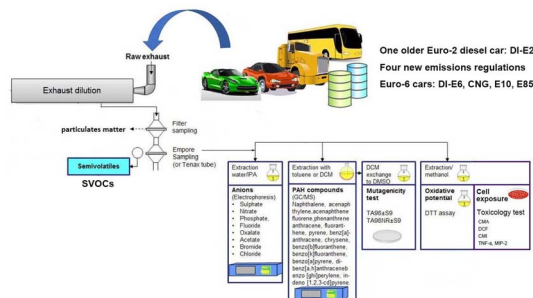
Lincoln Mehndiratta, Audrey E. Lyp, Jonathan H. Slade\* and Vicki H. Grassian\*



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

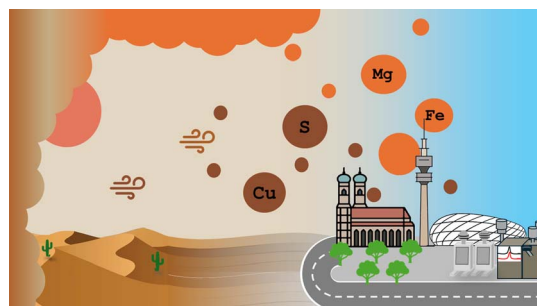
Mo Yang,\* Päivi Aakko-Saksa, Henri Hakkarainen, Topi Rönkkö, Päivi Koponen, Xiao-Wen Zeng, Guang-Hui Dong and Pasi I. Jalava



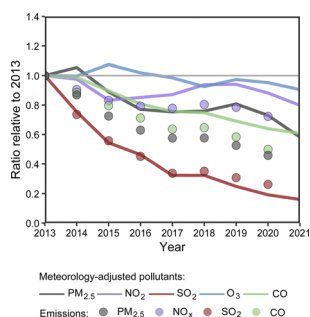
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## Trace elements in PM<sub>2.5</sub> shed light on Saharan dust incursions over the Munich airshed in spring 2022

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



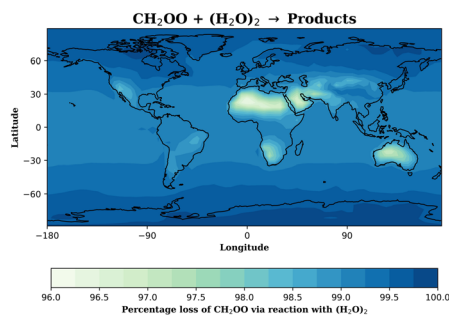
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### Evaluating emissions and meteorological contributions to air quality trends in northern China based on measurements at a regional background station

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

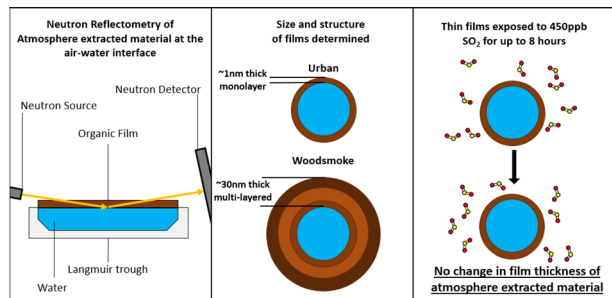
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### Kinetics of the reactions of the Criegee intermediate CH<sub>2</sub>OO with water vapour: experimental measurements as a function of temperature and global atmospheric modelling

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

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### 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\*

