

# Environmental Science: Atmospheres

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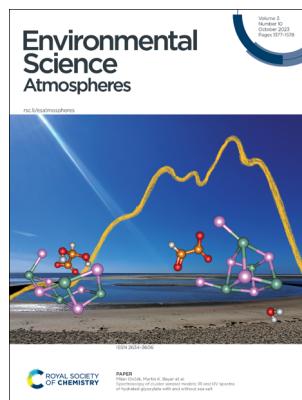
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ISSN 2634-3606 CODEN ESANC9 3(10) 1377–1578 (2023)



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### Inside cover

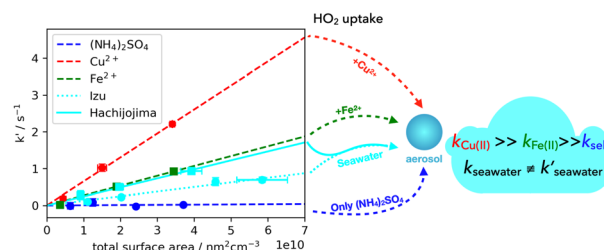
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## PAPERS

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### Investigation of HO<sub>2</sub> uptake onto Cu(II)- and Fe(II)-doped aqueous inorganic aerosols and seawater aerosols using laser spectroscopic techniques

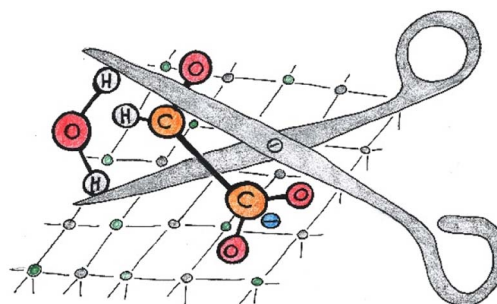
Jiaru Li, Yosuke Sakamoto,\* Kei Sato, Yu Morino and Yoshizumi Kajii\*



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### Spectroscopy of cluster aerosol models: IR and UV spectra of hydrated glyoxylate with and without sea salt

Nina K. Bersenkovitsch, Sarah J. Madlener, Jakob Heller, Christian van der Linde, Milan Ončák\* and Martin K. Beyer\*



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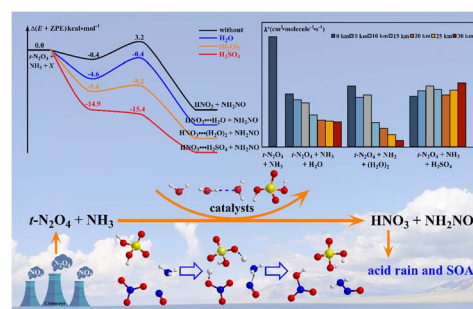
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## A possible atmospheric source of $\text{HNO}_3$ : the ammonolysis reaction of $t\text{-N}_2\text{O}_4$ in the presence of water monomer, water dimer, and sulfuric acid

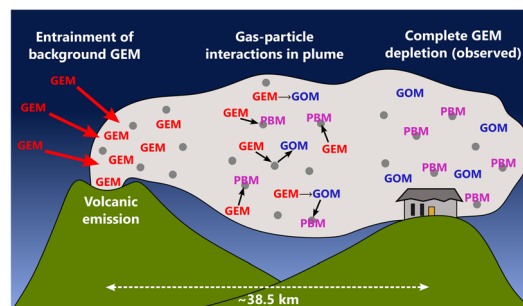
Ruxue Mu, Weixin Zhou, Zhaozhao Hong, Rui Wang, Quan Liu, Qiang Zhang, Min Jiang, Balaganesh Muthiah and Tianlei Zhang\*



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## Observed in-plume gaseous elemental mercury depletion suggests significant mercury scavenging by volcanic aerosols

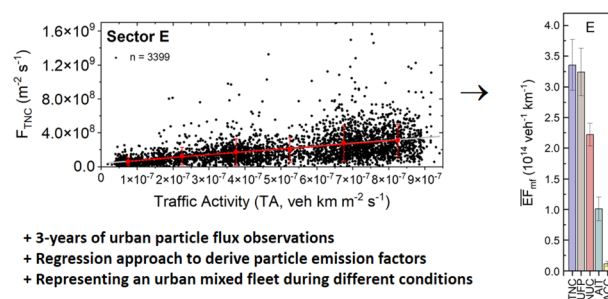
Alkuin M. Koenig, Olivier Magand, Clemence Rose, Andrea Di Muro, Yuzo Miyazaki, Aurelie Colomb, Matti Rissanen, Christopher F. Lee, Theodore K. Koenig, Rainer Volkamer, Jerome Brioude, Bert Verreyken, Tjarda Roberts, Brock A. Edwards, Karine Sellegri, Santiago Arellano, Philippe Kowalski, Alessandro Aiuppa, Jeroen E. Sonke and Aurélien Dommergue



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## Real world ultrafine particle emission factors for road-traffic derived from multi-year urban flux measurements using eddy covariance

Agnes Straaten, Minh-Hien Nguyen and Stephan Weber\*

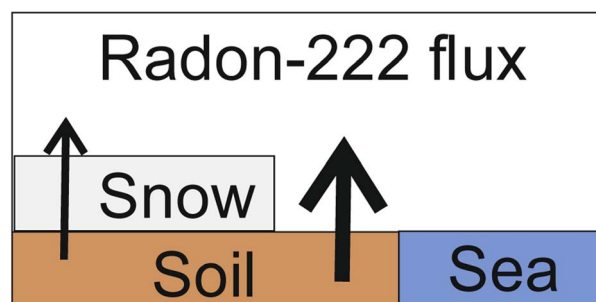


- + 3-years of urban particle flux observations
- + Regression approach to derive particle emission factors
- + Representing an urban mixed fleet during different conditions

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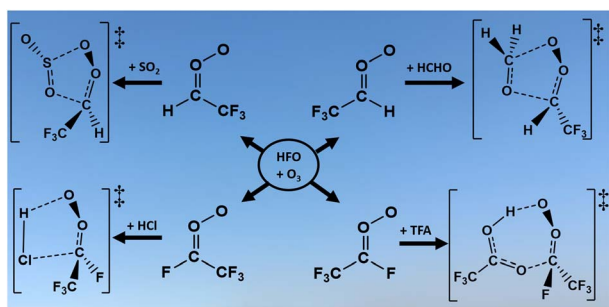
## Outdoor radon-222 in Arctic Finland

Jussi Paatero,\* Juha Hatakka and Timo H. Virtanen



## PAPERS

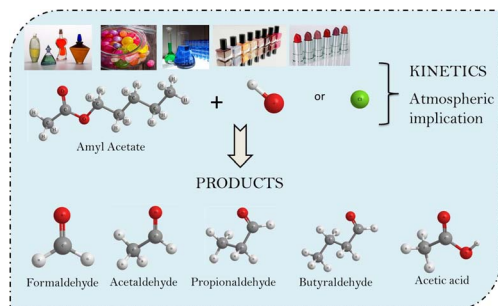
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### Bimolecular sinks of Criegee intermediates derived from hydrofluoroolefins – a computational analysis

Nathan A. I. Watson\* and Joseph M. Beames

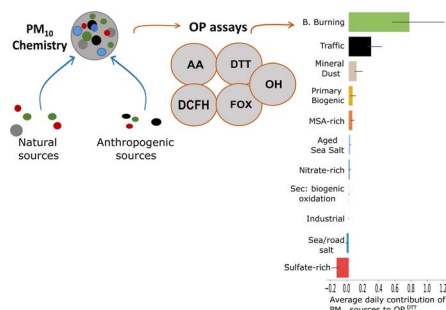
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Vianni G. Straccia C., María B. Blanco and Mariano A. Teruel\*

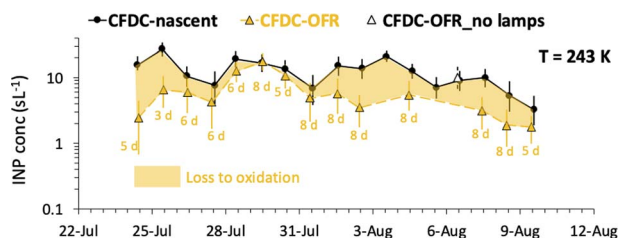
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### Source apportionment of oxidative potential depends on the choice of the assay: insights into 5 protocols comparison and implications for mitigation measures

Pamela A. Dominutti\*, Lucille Joanna S. Borlaza, Jean-Jacques Sauvain, Vy Dinh Ngoc Thuy, Stephan Houdier, Guillaume Suarez, Jean-Luc Jaffrezo, Sean Tobin, Cécile Trébuchon, Stéphane Socquet, Emmanuel Moussu, Gladys Mary and Gaëlle Uzu\*

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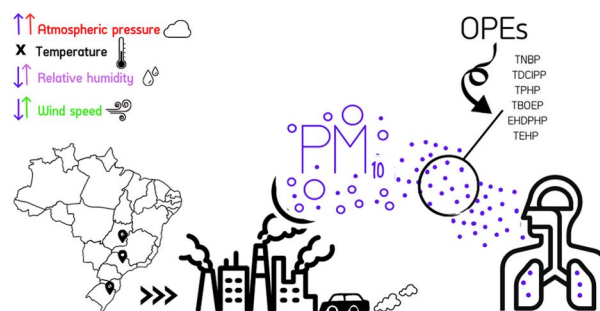
Paul J. DeMott\*, Thomas C. J. Hill, Kathryn A. Moore, Russell J. Perkins, Liora E. Mael, Heidi L. Busse, Hansol Lee, Chathuri P. Kaluarachchi, Kathryn J. Mayer, Jonathan S. Sauer, Brock A. Mitts, Alexei V. Tivanski, Vicki H. Grassian, Christopher D. Cappa, Timothy H. Bertram and Kimberly A. Prather



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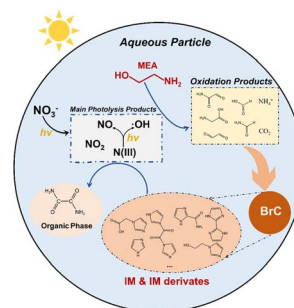
Priscila Boleta Gonçalves, Joyce Cristale, Amanda Araújo da Silva, Danilo Covaes Nogarotto, Daniela Montanari Migliavacca Osório, Lincoln Lucilio Romualdo and Simone Andréa Pozza\*



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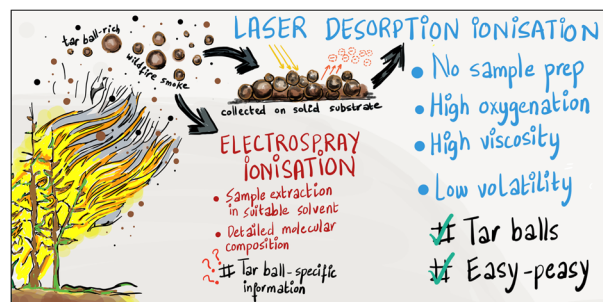
Xiaomeng Tian, Ruifeng Zhang, Bo Wei, Yalin Wang, Yongjie Li and Chak K. Chan\*



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Amna Ijaz,\* William Kew, Zezhen Cheng, Susan Mathai, Nurun Nahar Lata, Libor Kovarik, Simeon Schum, Swarup China and Lynn R. Mazzoleni\*



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Eric A. Wendt, Bonne Ford, Michael Cheeseman, Zoey Rosen, Jeffrey R. Pierce, Shantanu H. Jathar, Christian L'Orange, Casey Quinn, Marilee Long, John Mehaffy, Daniel D. Miller-Lionberg, David H. Hagan and John Volckens\*

