Environmental Science: Atmospheres

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CRITICAL REVIEW

Uncertainties in mitigating aviation non-CO₂ 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

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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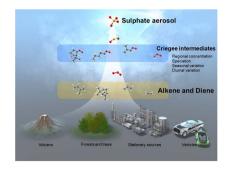


PAPERS

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

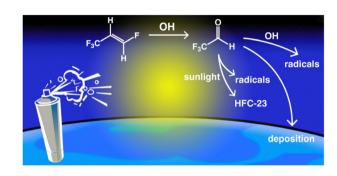
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Assessing the atmospheric fate of trifluoroacetaldehyde (CF₃CHO) and its potential as a new source of fluoroform (HFC-23) using the AtChem2 box model

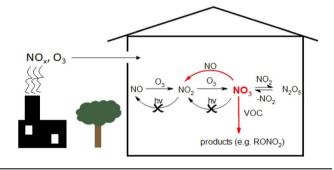
Maria Paula Pérez-Peña,* Jenny A. Fisher,* Christopher Hansen and Scott H. Kable



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NO₃ reactivity measurements in an indoor environment: a pilot study

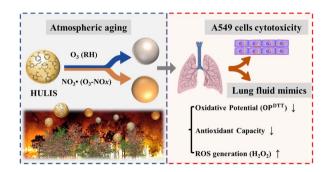
Patrick Dewald, Jos Lelieveld and John N. Crowley*



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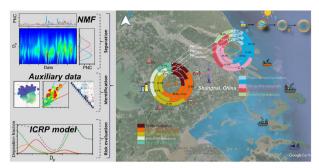
Atmospheric aging modifies the redox potential and toxicity of humic-like substances (HULIS) from biomass burning

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



PAPERS

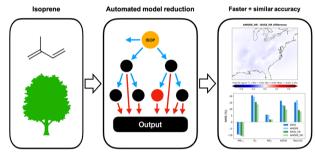
1805



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

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

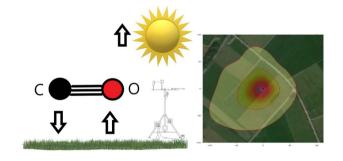




Implementation and evaluation of the automated model reduction (AMORE) version 1.1 isoprene oxidation mechanism in GEOS-Chem

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

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Correction: Ring-opening yields and auto-oxidation rates of the resulting peroxy radicals from OH-oxidation of α -pinene and β -pinene

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