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Environmental Science: Atmospheres

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Inside cover
See Defeng Zhao *et al.*, pp. 519–530. Image reproduced by permission of Hao Luo from *Environ. Sci.: Atmos.*, 2024, **4**, 519. Background photo by Marita Kavelashvili on Unsplash.

PAPERS

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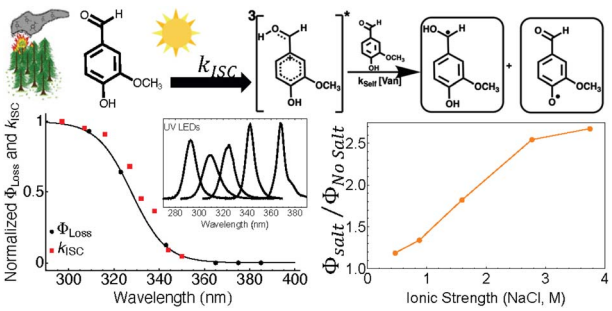
Wavelength-resolved quantum yields for vanillin photochemistry: self-reaction and ionic-strength implications for wildfire brown carbon lifetime

Greg T. Drozd,* Tate Weltzin, Samuel Skiffington, Dong Lee, Rashid Valiev, Theo Kurtén, Lindsey R. Madison, Yiheng He and Lydia Gargano



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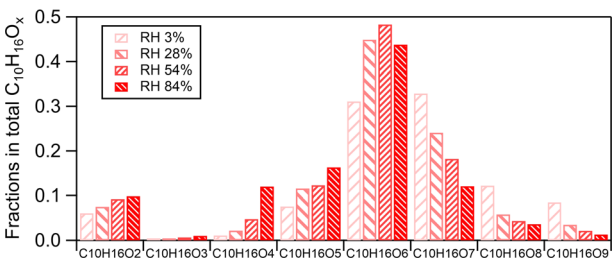
Effect of relative humidity on the molecular composition of secondary organic aerosols from α-pinene ozonolysis

Hao Luo, Yindong Guo, Hongru Shen, Dan Dan Huang, Yijun Zhang and Defeng Zhao*



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PAPERS

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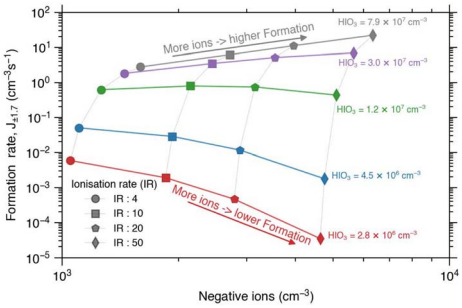
Temperature, humidity, and ionisation effect of iodine oxoacid nucleation

B. Rörup, X.-C. He,* J. Shen, R. Baalbaki, L. Dada, M. Sipilä, J. Kirkby, M. Kulmala, A. Amorim, A. Baccarini, D. M. Bell, L. Caudillo-Plath, J. Duplissy, H. Finkenzeller, A. Kürten, H. Lamkaddam, C. P. Lee, V. Makhmutov, H. E. Manninen, G. Marie, R. Marten, B. Mentler, A. Onnela, M. Philippov, C. W. Scholz, M. Simon, D. Stolzenburg, Y. J. Tham, A. Tomé, A. C. Wagner, M. Wang, D. Wang, Y. Wang, S. K. Weber, M. Zauner-Wieczorek, U. Baltensperger, J. Curtius, N. M. Donahue, I. El Haddad, R. C. Flagan, A. Hansel, O. Möhler, T. Petäjä, R. Volkamer, D. Worsnop and K. Lehtipalo



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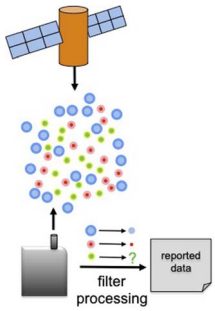
Chemically specific sampling bias: the ratio of $PM_{2.5}$ to surface AOD on average and peak days in the U.S.

Simon Rosanka, Madison M. Flesch, Yin Ting T. Chiu and Annmarie G. Carlton*



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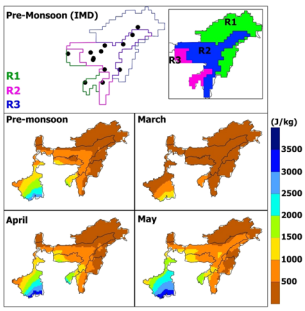
Spatio-temporal changes in the pre-monsoon thunderstorm activities of northeast India over the past four decades

Arpita Rastogi, J. Kuttippurath* and V. K. Patel



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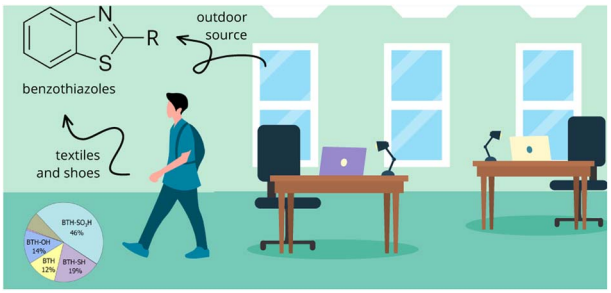
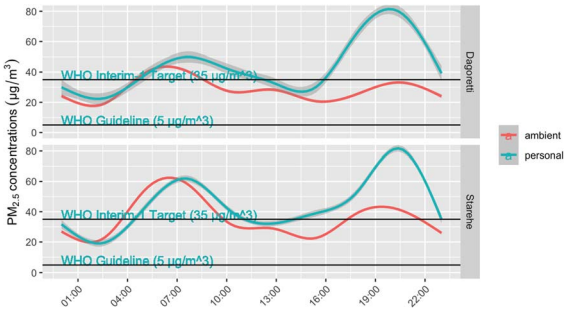
Insights into size-segregated distribution of benzothiazoles in indoor aerosol from office environments

Matteo Feltracco,* Giovanna Mazzi, Elena Barbaro, Elena Gregoris, Mara Bortolini, Carlo Barbante and Andrea Gambaro





Patterns and drivers of maternal personal exposure to $PM_{2.5}$ in informal settlements in Nairobi, Kenya

Michael A. Johnson,* Timothy Abuya, Anneka Wickramanayake, Heather Miller, Deborah Sambu, Daniel Mwanga, George Odwe, Charity Ndwiga, Ricardo Piedrahita, Madeleine Rossanese, Michael J. Gatari, Michael R. Giordano, Daniel M. Westervelt, Laura Wotton and Sathyanath Rajasekharan

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