

**Donald R. Hastie**  
**Publications in Refereed Journals**

68. **Mehrnaz Sarrafzadeh**, Jürgen Wildt, Iida Pullinen, Monika Springer, Einhard Kleist, Ralf Tillmann, Sebastian H. Schmitt, Cheng Wu, Thomas F. Mentel, Defeng Zhao, Donald R. Hastie, and Astrid Kiendler-Scharr, Impact of NO<sub>x</sub> and OH on secondary organic aerosol formation from β-pinene photooxidation, *Atmospheric Chemistry and Physics*, 2016, 16, 11237-11248.
67. **Irei, Satoshi**, Jochen Rudolph, Lin Huang, Janeen Auld, Collin Fabrice, Donald Hastie, 2015, Laboratory studies on the carbon kinetic isotope effects on the production mechanism of particulate phenolic compounds formed by toluene photooxidation: A tool to constrain reaction pathways, *The Journal of Physical Chemistry A*, 2015, 119 (1), pp. 5-13, DOI: 10.1021/jp5104609.
66. **Janeen Auld** and Donald R. Hastie, 2011, Investigation of organic nitrate product formation during hydroxyl radical initiated photo-oxidation of β-pinene, *Atmos. Environ.* 45(1) 26-34. *Source of funding: NSERC, MSC.*
65. **Satoshi Irei**, Jochen Rudolph, Lin Huang, Janeen Auld, and Donald Hastie, 2011, Stable carbon isotope ratio of secondary particulate organic matter formed by photooxidation of toluene in indoor smog chamber. *Atmos. Environ.* 45(4) 856-862.
64. **Janya L. Kelly**, Diane V. Michelangeli, Paul A. Makar, Donald R. Hastie, Michael Mozurkewich, and **Janeen Auld**, 2010, Aerosol speciation and mass prediction from toluene oxidation under high NO<sub>x</sub> conditions, *Atmos Environ.* 44 (3) 361-369. *Source of funding: NSERC, MSC, CFCAS.*
63. D. R. Hastie, M. J. McEwan, R. G. A. R. Maclagan, D. Milligan, J. Gray, and V. S. Langford, 2010, Real time measurement of PAN using SIFT-MS, *Rapid Commun. Mass Spectrom.* 24, 343–348. *Source of funding: NSERC.*
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61. **Janeen Auld** and Donald R. Hastie, 2009, Tandem mass spectrometry and multiple reaction monitoring using an atmospheric pressure chemical ionization triple quadrupole mass spectrometer (APCI/MS) for product identification in atmospherically important reactions, *International Journal of Mass Spectrometry*, 282, 91-98. *Source of funding: NSERC, MSC, CFCAS* PDF
60. Satoshi Irei, Lin Huang, Fabrice Collin, Wendy Zhang, Donald Hastie and Jochen Rudolph, 2006, Flow reactor studies of the stable carbon isotope composition of secondary particulate organic matter generated by OH-radical induced reactions of toluene, *J. Atmospheric Environment*, 40 (30), 5858-5867. *Source of Funding: NSERC, MSC, CFCAS*
59. Stroud, Craig, A., Paul A. Makar, Diane V. Michelangeli, Michael Mozurkewich, Donald R. Hastie, **Andreea Barbu**, and **Janya Humble**, 2004, Simulating organic aerosol formation during the photooxidation of toluene/NO<sub>x</sub> mixtures: Comparing the equilibrium and kinetic assumption, *Environ. Sci. Technol.*, 38(5), 1471-1479. *Source of Funding: NSERC*
58. **K. Hayden**, D.R. Hastie, 2003, Partitioning of Reactive Atmospheric Nitrogen Oxides at an Elevated Site in Southern Quebec, Canada, *J. Geophys. Res.*, 108, 1029/2002JD003188. *Source of Funding: NSERC*
57. **C.M. Mihele** and D.R. Hastie, 2003, Radical chemistry at a forested continental site: Results from the Prophet 1997 Campaign, *J. Geophys. Res.*, 108, 1029/2002JD002888. *Source of Funding: NSERC*
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- Cristian M. Mihele**, Eric C. Apel, D. D. Riemer and Rod G. Zika, 2002, Loss of isoprene and sources of nighttime OH radicals at a rural site in the U.S.: Results from photochemical models, *J. Geophys. Res.*, 107, 10.1029/2001JD000449. Source of Funding: *NSERC*
55. **D. A. Plummer**, J. C. McConnell, L. Neary, J. Kaminski, J. Drummond, J. Narayan, V. Young and D. R. Hastie, 2001, Assessment of emissions data for the Toronto region using aircraft-based measurements and an air quality model, *Atmospheric Environment*, 35, 6453-6463.
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04. Measurements of Nitric Oxide During a Stratospheric Warming. W. Knight, D. R. Hastie and B. A. Ridley. *Geophys. Res. Lett.*, 9, 489-492, 1982.
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## Non-Refereed Contributions

### Chapter in book

Fred Fehsenfeld, Don Hastie, Judith Chow, and Paul Solomon, 2004, Particle and gas measurements, in NARSTO Particulate Matter Assessment for Policy Makers: A NARSTO Assessment, eds., P. McMurry, M. Shepherd, and J. Vickery. Cambridge University Press, Cambridge, England. ISBN 0 52 184287 5.

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