

DOUGLAS A. DAY

Curriculum Vitae

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EDUCATION

1996 B.A. in Chemistry, *Magna Cum Laude*, Franklin & Marshall College, Lancaster, PA

2003 Ph.D. in Physical Chemistry, University of California, Berkeley

Dissertation: *Observations of NO₂, Total Peroxy Nitrates, Total Alkyl Nitrates, and HNO₃ in the Mid-Sierras and Sacramento Plume Using Thermal Dissociation – Laser Induced Fluorescence*

RESEARCH APPOINTMENTS

2022 - present	Research Scientist III, CIRES, University of Colorado Boulder Research Associate, Dept. of Chemistry, University of Colorado, Boulder
2010 - 2022	Research Scientist II, CIRES, University of Colorado Boulder Research Associate, Dept. of Chemistry, University of Colorado, Boulder
2009 - 2010	Assistant Project Scientist, Scripps Institution of Oceanography, University of California, San Diego
2008 - 2009	Staff Research Associate, Scripps Institution of Oceanography, University of California, San Diego
2008 - 2008	Staff Research Associate, University of California, Davis

METRICS

- Publications (peer-reviewed research manuscripts): 155 (per list below)
- h-index:
 - o 72 Google Scholar: <https://scholar.google.com/citations?user=RIXzJ7IAAAAJ&hl=en>
 - o 60 Publons / Web of Science: <https://publons.com/researcher/4042945/douglas-day/publications/>

HONORS, AWARDS

2020	Web of Science Highly Cited Researcher https://publons.com/researcher/4042945/douglas-day Top 1% by citations for field. One of 6400 overall, of 151 in Geosciences, of 14 at CU Boulder, and of 5 at CIRES in 2020 https://recognition.webofscience.com/awards/highly-cited/2020/
2025	NASA Group Achievement Award (GAA) for ASIA Air Quality (ASIA-AQ) project
2025	Distinguished ASCENT Research Scientist Award (Recognition of Outstanding Contributions to the Atmospheric Science and Chemistry mEasurement NeTwork): ASCENT Steering Committee, June 2, 2025 https://recognition.webofscience.com/awards/highly-cited/2020/
2024	Best paper award ACS ES&T Air for “Effects of 222 nm Germicidal Ultraviolet Light on Aerosol and VOC Formation from Limonene” (as coauthor) https://pubs.acs.org/doi/10.1021/acsestair.6c00057

- 2022 CU Analytical Chemistry Division “Best Paper Award - Research Scientist” for “*A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry*”
https://cires1.colorado.edu/jimenez-group/wiki/index.php/ANYL_Award#Best_Papers_of_2022
- 2021 CIRES Outstanding Achievement Award (Science & Engineering): “*For a decade, developing and engineering one of the world’s most comprehensive and high-performance flight instruments for measuring aerosol chemical composition.*”
<https://cires.colorado.edu/about/institutional-programs/outstanding-performance-awards/all-recipients>
- 2021 CIRES Bronze Medal “CIRES Bronze Metal “*For outstanding execution of the FIREX-AQ mission*”
- 2020 NASA Group Achievement Award (GAA) for FIREX (Fire Influence on Regional to Global Environments Experiment - Air Quality)
- 2019 NASA GAA for ATom mission (Atmospheric Tomography)
- 2017 NASA GAA for KORUS-AQ mission (KORean-United States Air Quality)
- 2015 NASA GAA for SEAC4RS (Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys) mission
- 2005 Scholarship to attend the Surface Ocean-Lower Atmosphere Study (SOLAS) Summer School in Corsica, France
- 1995 Phi Beta Kappa Society Induction
- 1991-1995 John Marshall Scholar, Franklin & Marshall College

TEACHING EXPERIENCE

Graduate student, postdoc, and research assistant mentoring, co-advising, training

At UC Davis, Scripps Institute of Oceanography/UC San Diego, and University of Colorado, mentoring, training, and often co-advising PhD students, masters students, and postdoctoral researchers has been a major component of my work efforts and responsibilities.

- Fall 2025 *Curriculum development and Co-teaching* of CHEM-5121 Practical Lab Skills. Description below.
- Spring 2024 *Curriculum development and Co-teaching* of CHEM-5121 Practical Lab Skills. Graduate course on range of skills including laboratory skills, experimental practices, data analysis, modeling and scientific applications (with particular focus on atmospheric chemistry studies)
- Spring 2013 *Guest Lecturer* for Chem-5151 Atmospheric Chemistry graduate level class, Chemistry and Biochemistry Dept., University of Colorado. Planned and taught three lectures, designed a homework problem set, and reviewed/proctored the final exam. Lectures and homework on topics of tropospheric oxidation and ozone formation.
- Spring 2003 *Graduate Student Instructor* for “General Chemistry and Quantitative Analysis”, Department of Chemistry undergraduate course, University of California, Berkeley.
- Fall 1998 *Graduate Student Instructor* for “Physical Chemistry Laboratory”, Department of Chemistry upper-level undergraduate course, University of California, Berkeley.

- Spring 1998 *Graduate Student Instructor* for “Quantitative Analysis”, Department of Chemistry undergraduate course, University of California, Berkeley.
- Fall 1996 *Graduate Student Instructor* for “General Chemistry”, Department of Chemistry undergraduate course, University of California, Berkeley.
- 1995-1996 *English as a Second Language Instructor*, New England Albanian Relief Organization Library, Pogradec, Albania.
- Fall 1995 *Lecturer in Applied Chemistry*, Fan Noli University, Korce, Albania.

PUBLICATIONS

2026

1. M. Rutherford, Z. Peng, O. Jenks, R. Mesburis, D.A. Day, A.V. Handschy, H. Stark, J.L. Jimenez, J. de Gouw. Measurements and Modeling of GUV222-Driven Increases in SOA Concentrations in an Unoccupied Office. *ACS ES&T Air*, 3, 3, 875–886, <https://doi.org/10.1021/acsestair.5c00475>, 2026
2. B.C. Schulze, C.M. Kenseth, R.X. Ward, E.A. Pennington, K.M. Seltzer, P. Van Rooy, A. Tasnia, B. Barletta, S. Meinardi, M.A. Ehrenfels, A.R. Jensen, Y. Huang, H.A. Parker, S. Hasheminassab, D.A. Day, P. Campuzano-Jost, J. de Gouw, J.L. Jimenez, D.R. Blake, K.C. Barsanti, H.O.T. Pye, J.D. Crounse, P.O. Wennberg, J.H. Seinfeld. Complex Effects of Reduced Mobile Source Emissions on Submicron Particulate Matter Concentrations in Los Angeles. *ACS ES&T Air*, 3, 2, 313–325, <https://doi.org/10.1021/acsestair.5c00199>, 2026

2025

3. M.K. Schueneman, D.A. Day, O.J. Jenks, D. Kim, A.V. Handschy, M.A. Morris, J.A. de Gouw, Z.C.J. Decker, P.J. Ziemann, J.L. Jimenez. Secondary Organic Aerosol Yields from NO₃ Oxidation of Phenolic, Aromatic, and Heterocyclic VOCs: Implications for Biomass Burning Plumes. *ACS ES&T Air*, 2, 11, 2342–2352, <https://doi.org/10.1021/acsestair.4c00332>, 2025
4. R. Mesburis, M. Rutherford, A.V. Handschy, D.A. Day, M.A. Morris, A.C. Ziola, Z. Peng, J.A. de Gouw, J.L. Jimenez. Mitigation of indoor air pollution from air cleaners using a catalyst. *ACS ES&T Air*, 2, 8, 1694–1703, <https://doi.org/10.1021/acsestair.5c00117>, 2025.
5. F.R. Nursanto, D.A. Day, R. Meinen, R. Holzinger, H. Saathoff, J. Fu, J. Mulder, U. Dusek, J.L. Fry. Development and validation of a NO_x+ ratio method for the quantitative separation of inorganic and organic nitrate aerosol using a unit-mass-resolution time-of-flight aerosol chemical speciation monitor equipped with a capture vaporizer (CV-UMR-ToF-ACSM) *Atmos. Meas. Tech.*, 18, 3051–3072, <https://doi.org/10.5194/amt-18-3051-2025>, 2025.
6. Kim, D., Campuzano-Jost, P., Guo, H., Day, D. A., Yang, D., Dhaniyala, S., Williams, L., Croteau, P., Jayne, J., Worsnop, D., Volkamer, R., and Jimenez, J. L.: Development and characterization of an aircraft inlet system for broader quantitative particle sampling at higher altitudes: aerodynamic lenses, beam and vaporizer diagnostics, and pressure-controlled inlets, *Aerosol Research*, 3, 371–404, <https://doi.org/10.5194/ar-3-371-2025>, 2025.

2024

7. A.R. Jensen, M.A. Morris, B.C. Schulze, A.C. Bradley, L.D. Anderson, O.J. Jenks, W.D. Dresser, K. Ball, R.X. Ward, D.A. Day, J.D. Crounse, S. Meinardi, B. Barletta, D.R. Blake, J.H. Seinfeld, P.O. Wennberg, J.L. Jimenez, J.A. de Gouw. Emissions and Chemistry of Volatile Organic Compounds in the Los Angeles

- Basin in Summer 2022. *J. Geophys. Res. -Atm.*, 129, e2024JD041812, <https://doi.org/10.1029/2024JD041812>, 2024
8. B. Berman, B. Cummings, H. Guo, P. Campuzano-Jost, J.L. Jimenez, D. Pagonis, D.A. Day, Z. Finewax, A.V. Handschy, B.A. Nault, P. DeCarlo, S. Capps, M. Waring. Modeling Indoor Inorganic Aerosol Concentrations During the ATHLETIC Campaign with IMAGES. *ACS ES&T Air*, 1, 1084-1095, <https://doi.org/10.1021/acsestair.4c00060>, 2024
 9. T. Pan, A.T. Lambe, W. Hu, Y. He, M. Hu, H. Zhou, X. Wang, Q. Hu, H. Chen, Y. Zhao, Y. Huang, D.R. Worsnop, Z. Peng, M.A. Morris, D.A. Day, P. Campuzano-Jost, J.L. Jimenez, S.H. Jathar. A comprehensive evaluation of enhanced temperature influence on gas and aerosol chemistry in the lamp-enclosed oxidation flow reactor (OFR) system. *Atmos. Meas. Tech.*, 17, 4915–4939, <https://doi.org/10.5194/amt-17-4915-2024>, 2024.
 10. O.J. Jenks, Z. Peng, M.K. Schueneman, M. Rutherford, A.V. Handschy, D.A. Day, J.L. Jimenez, J.A. de Gouw. Effects of 222 nm Germicidal Ultraviolet Light on Aerosol and VOC Formation from Limonene. *ACS EST Air*, 1, 6, 820–828, <https://doi.org/10.1021/acsestair.4c00065>, 2024
 11. M.K. Schueneman, D.A. Day, Z. Peng, D. Pagonis, O.J. Jenks, J. de Gouw, J.L. Jimenez. Secondary Organic Aerosol Formation from the OH Oxidation of Phenol, Catechol, Styrene, Furfural, and Methyl Furfural. *ACS Earth Space Chem.*, 8, 6, 1179–1192, <https://doi.org/10.1021/acsearthspacechem.3c00361>, 2024
 12. M.K. Schueneman, D.A. Day, D. Kim, P. Campuzano-Jost, S. Yun, M.P. DeVault, A.C. Ziola, P.J. Ziemann, J.L. Jimenez. A multi-instrumental approach for calibrating real-time mass spectrometers using high-performance liquid chromatography and positive matrix factorization. *Aerosol Research*, 2, 59–76, <https://doi.org/10.5194/ar-2-59-2024>, 2024.
 13. M.A. Morris, D. Pagonis, D.A. Day, J.A. de Gouw, P.J. Ziemann, J.L. Jimenez. Absorption of VOCs by polymer tubing: implications for indoor air and use as a simple gas-phase volatility separation technique. *Atmos. Meas. Tech.*, 17, 1545–1559, <https://doi.org/10.5194/amt-17-1545-2024>, 2024.
 14. W. Chen, W. Hu, Z. Tao, M. Cai, M. Zhu, Y. Ye, H. Zhou, H. Jiang, J. Li, W. Song, J. Zhou, S. Huang, B. Yuan, M. Shao, Q. Feng, Y. Li, G. Isaacman-VanWertz, H. Stark, D.A. Day, P. Campuzano-Jost, J.L. Jimenez, X. Wang. Quantitative characterization of the volatility distribution of organic aerosols in a polluted urban area: intercomparison between thermodenuder and molecular measurements. *J. Geophys. Res. -Atm.*, 129, e2023JD040284, <https://doi.org/10.1029/2023JD040284>, 2024.
 15. Z.C.J. Decker, G.A. Novak, K. Akin, P.R. Veres, J.A. Neuman, I. Bourgeois, T.P. Bui, P. Campuzano-Jost, M.M. Coggon, D.A. Day, J.P. DiGangi, G.S. Diskin, M. Dollner, A. Franchin, C.D. Fredrickson, K.D. Froyd, G.I. Gkatzelis, H. Guo, S.R. Hall, H. Halliday, K. Hayden, C.D. Holmes, J.L. Jimenez, A. Kupc, J. Lindaas, A.M. Middlebrook, R.H. Moore, B.A. Nault, J.B. Nowak, D. Pagonis, B.B. Palm, J. Peisch, F.M. Piel, P.S. Rickly, M.A. Robinson, A.W. Rollins, T.B. Ryerson, G.P. Schill, K. Sekimoto, C.R. Thompson, L. Thornhill, J.A. Thornton, K. Ullmann, C. Warneke, R.A. Washenfelder, B. Weinzier, E.B. Wiggins, C.J. Williamson, E.L. Winstead, A. Wisthaler, C.C. Womack, S.S. Brown. Airborne Observations Constrain Heterogeneous Nitrogen and Halogen Chemistry on Tropospheric and Stratospheric Biomass Burning Aerosol. Airborne observations constrain heterogeneous nitrogen and halogen chemistry on tropospheric and stratospheric biomass burning aerosol. *Geophys. Rev. Lett.*, 51, e2023GL107273, <https://doi.org/10.1029/2023GL107273>, 2024.
 16. G.I. Gkatzelis, M.M. Coggon, C.E. Stockwell, R.S. Hornbrook, H. Allen, E.C. Apel, M.M. Bela, D.R. Blake, I. Bourgeois, S.S. Brown, P. Campuzano-Jost, J.M. St. Clair, J.H. Crawford, J.D. Crounse, D.A. Day, H.A. Halliday, T.F. Hanisco, R. Hannun, A. Hills, G. Huey, J.L. Jimenez, J.M. Katich, A. Lamplugh, Y. Ro Lee, J. Liao, J. Lindaas, S.A. McKeen, T. Mikoviny, K. Ball, B.A. Nault, J.A. Neuman, J.B. Nowak, D. Pagonis, J. Peischl, A.E. Perring, F. Piel, P.S. Rickly, M.A. Robinson, A.W. Rollins, T.B. Ryerson, M.K. Schueneman, R.H. Schwantes, J.P. Schwarz, K. Sekimoto, V. Selimovic, T. Shingler, J.P. DiGangi, G.S. Diskin, A. Fried, J.B. Gilman, H. Guo, J.W. Hair, D.J. Tanner, L. Tomsche, K.T. Vasquez, P.R. Veres, R. Washenfelder, P. Weibring, P.O. Wennberg, A. Wisthaler, G.M. Wolfe, C.C. Womack, L. Xu, R.J. Yokelson, C. Warneke. Parameterizations of US wildfire and prescribed fire emission ratios and emission factors based on FIREX-AQ aircraft measurements. *Atmos. Chem. Phys.*, 24, 929–956, <https://doi.org/10.5194/acp-24-929-2024>, 2024.

17. S. Jeon, M.J. Walker, D.T. Sueper, D.A. Day, A.V. Handschy, J.L. Jimenez, B.J. Williams. A searchable database and mass spectral comparison tool for aerosol mass spectrometry (AMS) and aerosol chemical speciation monitor (ACSM). *Atmos. Meas. Tech.*, 16, 6075–6095, <https://doi.org/10.5194/amt-16-6075-2023>, 2023.
18. D. Pagonis, V. Selimovic, P. Campuzano-Jost, H. Guo, D.A. Day, M.K. Schueneman, B.A. Nault, M.M. Coggon, J.P. DiGangi, G.S. Diskin, E.C. Fortner, E.M. Gargulinski, G.I. Gkatzelis, J.W. Hair, S.C. Herndon, C.D. Holmes, J.M. Katich, J.B. Nowak, A.E. Perring, P. Saide, T.J. Shingler, A.J. Soja, L.H. Thapa, C. Warneke, E.B. Wiggins, A. Wisthaler, T.I. Yacovitch, R.J. Yokelson, J.L. Jimenez. Impact of Biomass Burning Organic Aerosol Volatility on Smoke Concentrations Downwind of Fires. *Environ. Sci. Technol.*, 57, 44, 17011–17021, <https://pubs.acs.org/doi/10.1021/acs.est.3c05017>, 2023.
19. K.R. Travis, J.H. Crawford, A. Soja, E.B. Wiggins, E.M. Gargulinski, R.H. Moore, Joshua P. DiGangi, J.B. Nowak, C. Warneke, C.C. Womack, M.A. Robinson, J.M. Katich, M. Coggon, A.W. Rollins, J. Gilman, J.E. Dibb, T.F. Hanisco, G.M. Wolfe, J. Liao, J.M. St. Clair, E.C. Apel, R.S. Hornbrook, A.J. Hills, J.L. Jimenez, P. Campuzano-Jost, D.A. Day, H. Guo, D. Pagonis, B.A. Nault, J.L. McCarty, A. Fried, P.S. Rickly, R.J. Yokelson, P.O. Wennberg, L. Xu, A.E. Perring, I.J. Simpson, D.R. Blake, A. Lamplugh. Emission Factors for Crop Residue and Prescribed Fires in the Eastern US during FIREX-AQ. *J. Geophys. Res. -Atm.*, 128, e2023JD039309, <https://doi.org/10.1029/2023JD039309>, 2023.
20. Z. Peng, D.A. Day, G.A. Symonds, O.J. Jenks, H.A. Stark, A.V. Handschy, J. de Gouw, J.L. Jimenez. Significant Production of Ozone from Germicidal UV Lights at 222 nm. *Environ. Sci. Technol. Lett.*, 10, 8, 668–674, <https://pubs.acs.org/doi/abs/10.1021/acs.estlett.3c00314>, 2023.
21. E.B. Franklin, L.D. Yee, R. Wernis, G. Isaacman-VanWertz, N. Kreisberg, R. Weber, H. Zhang, B.B. Palm, W. Hu, P. Campuzano-Jost, D.A. Day, A. Manzi, P. Artaxo, R.A.F. De Souza, J.L. Jimenez, S.T. Martin, A.H. Goldstein. Chemical Signatures of Seasonally Unique Anthropogenic Influences on Organic Aerosol Composition in the Central Amazon. *Environ. Sci. Technol.* 2023, 57, 15, 6263–6272. <https://pubs.acs.org/doi/10.1021/acs.est.2c07260>, 2023
22. T.B. Nguyen, K.H. Bates, R. Buenconsejo, S. Charan, E.E. Cavanna, D. Cocker, D.A. Day, M. DeVault, N.H. Donahue, Z. Finewax, L. Habib, A. Handschy, L. Hildebrandt Ruiz, C.-Y. Hou, J.L. Jimenez, T. Joo, A. Klodt, W. Kong, C. Le, C.G. Masoud, M. Mayernik, N.L. Ng, E. Nienhouse, S.A. Nizkorodov, J.J. Orlando, J.J. Post, P.O. Sturm, B. Thrasher, G.S. Tyndall, J.H. Seinfeld, S. Worley, X. Zhang, P.J. Ziemann. Overview of ICARUS – a curated, open access, online repository for atmospheric simulation chamber data. *ACS Earth Space Chem.*, 7, 6, 1235–1246 <https://doi.org/10.1021/acsearthspacechem.3c00043> 2023.

2022

23. A. Moravek, T.C. VandenBoer, Z. Finewax, D. Pagonis, B.A. Nault, W.L. Brown, D.A. Day, A.V. Handschy, H. Stark, P.J. Ziemann, J.L. Jimenez, J.A. de Gouw, C.J. Young. Reactive chlorine emissions from cleaning and reactive nitrogen chemistry in an indoor athletic facility. *Environ. Sci. Technol.*, 56, 22, 15408–15416 <https://pubs.acs.org/doi/10.1021/acs.est.2c04622>, 2022. [Paper](#)
24. D.A. Day, J. Fry, H.G. Kang, J. Krechmer, B. Ayres, N. Keehan, S. Thompson, W. Hu, P. Campuzano-Jost, J.C. Schroder, H. Stark, M. DeVault, P.J. Ziemann, K.J. Zarzana, R. Wild, W. Dube, S.S. Brown, J.L. Jimenez. Secondary organic aerosol mass yields from NO₃ oxidation of α -pinene and Δ -carene: effect of RO₂ radical fate. *J. Phys. Chem. A*, 126, 40, 7309–7330, <https://doi.org/10.1021/acs.jpca.2c04419>, 2022. [Paper](#), [Twitter post](#), [Figures \(.zip\)](#).
25. W. Hu, H. Zhou, W. Chen, Y. Ye, T. Pan, Y. Wang, W. Song, H. Zhang, W. Deng, M. Zhu, C. Wang, C. Wu, C. Ye, Z. Wang, B. Yuan, S. Huang, M. Shao, Z. Peng, D.A. Day, P. Campuzano-Jost, A. Lambe, D. Worsnop, J.L. Jimenez, X. Wang. Oxidation Flow Reactor Results in a Chinese Megacity Emphasize the Important Contribution of S/IVOCs to Ambient SOA Formation. *Environ. Sci. Tech.*, 26, 11, 6880–6893, <https://doi.org/10.1021/acs.est.1c03155> 2022
26. D.A. Day, P. Campuzano-Jost, B.A. Nault, B.B. Palm, W. Hu, H. Guo, P.J. Wooldridge, R.C. Cohen, K.S. Docherty, J.A. Huffman, S.S. de Sá, S.T. Martin, J.L. Jimenez. A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. *Atmos. Meas. Tech.*, 15, 459–483, <https://doi.org/10.5194/amt-15-459-2022>, 2022. [Paper](#), [Twitter thread](#)
27. D. Kim, C. Cho, S. Jeong, S. Lee, B.A. Nault, P. Campuzano-Jost, D.A. Day, J.A. Schroder, J.L. Jimenez, R. Volkamer, D. Blake, A. Wisthaler, A. Fried, J. DiGangi, G. Diskin, S. Pusede, S. Hall, K. Ullmann, L. Huey, D. Tanner, J.A. Dibb, C. Knote, K.-E. Min. field observational constraints on the controllers in

glyoxal (CHOCHO) reactive uptake to aerosol. *Atmos. Chem. Phys.*, 22, 805–821, <https://doi.org/10.5194/acp-22-805-2022>, 2022.

2021

28. H. Kenagy, P. Romer, P. Wooldridge, B.A. Nault, P. Campuzano-Jost, D.A. Day, J.L. Jimenez, A. Zare, H.O.T. Pye, J. Yu, C.H. Song, D. Blake, J.-H. Woo, K. Younha, R.C. Cohen. Contribution of Organic Nitrates to Organic Aerosol over South Korea during KORUS-AQ. *Environ. Sci. Tech.*, 55, 24, 16326–16338, <https://doi.org/10.1021/acs.est.1c05521>, 2021.
29. D.J. Price, D.A. Day, D. Pagonis, H. Stark, A.V. Handschy, L.B. Algrim, S.L. Miller, J.A. de Gouw, P.J. Ziemann, J.L. Jimenez. Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements *ACS Earth Space Chem.*, 5, 9, 2252–2267, 2021. <https://pubs.acs.org/doi/10.1021/acsearthspacechem.1c00229>
30. C.A. Brock, K.D. Froyd, M. Dollner, C.J. Williamson, G. Schill, D.M. Murphy, N.J. Wagner, A. Kupc, J.L. Jimenez, P. Campuzano-Jost, B.A. Nault, J.C. Schroder, D.A. Day, D.J. Price, B. Weinzierl, J.P. Schwarz, J.M. Katich, L. Zeng, R. Weber, J. Dibb, E. Scheuer, G.S. Diskin, J.P. DiGangi, T.P. Bui, J.M. Dean-Day, C.R. Thompson, J. Peischl, T.B. Ryerson, I. Bourgeois, B.C. Daube, R. Commane, S.C. Wofsy. Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. *Atmos. Chem. Phys.*, 21, 15023–15063, 2021. <https://doi.org/10.5194/acp-21-15023-2021>
31. Z. Finewax, D. Pagonis, M.S. Claflin, A.V. Handschy, W.L. Brown, O. Jenks, B.A. Nault, D.A. Day, B.M. Lerner, J.L. Jimenez, P.J. Ziemann, J.A. de Gouw. Quantification and source characterization of volatile organic compounds from exercising and application of chlorine-based cleaning products in a university athletic center. *Indoor Air*, 31: 1323–1339, 2021. <https://doi.org/10.1111/ina.12781>.
32. B.A. Nault, D.S. Jo, B.C. McDonald, P. Campuzano-Jost, D.A. Day, W. Hu, J.C. Schroder, J. Allan, D.R. Blake, M.R. Canagaratna, H. Coe, M.M. Coggon, P.F. DeCarlo, G.S. Diskin, R. Dunmore, F. Flocke, A. Fried, J.B. Gilman, G. Gkatzelis, J.F. Hamilton, T.F. Hanisco, P.L. Hayes, D.K. Henze, A. Hodzic, J. Hopkins, M. Hu, L.G. Huey, B.T. Jobson, W.C. Kuster, A. Lewis, M. Li, J. Liao, M. Omar Nawaz, I. B. Pollack, J. Peischl, B. Rappenglück, C.E. Reeves, D. Richter, J.M. Roberts, T.B. Ryerson, M. Shao, J.M. Sommers, J. Walega, C. Warneke, P. Weibring, G.M. Wolfe, D.E. Young, B. Yuan, Q. Zhang, J.A. de Gouw, J.L. Jimenez. Anthropogenic Secondary Organic Aerosols Contribute Substantially to Air Pollution Mortality. *Atmos. Chem. Phys.*, 21, 11201–11224, 2021 <https://doi.org/10.5194/acp-21-11201-2021>
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155. **Day, D.A.**, A.L. Zook, C.M. Barshick, and K.R. Hess. *Electrochemical Deposition of Metals in the Preparation of Standard Materials for Glow Discharge Mass Spectrometry*, *Microchemical Journal*, Vol. 55, No. 2, pp. 208-221, 1997.

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Comprehensive Aerosol Properties, 2016-2018, Version 2. ORNL DAAC, Oak Ridge, Tennessee, USA.
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2. Nault, B.A., P. Campuzano-Jost, D.A. Day, D.S. Jo, J.C. Schroder, H.M. Allen, R. Bahreini, H. Bian, D.R. Blake, M. Chin, S.L. Clegg, P.R. Colarco, J.D. Crounse, M.J. Cubison, P.F. Decarlo, J.E. Dibb, G.S. Diskin, A. Hodzic, W. Hu, J.M. Katich, J.K. Kodros, A. Kupc, F.D. Lopez-Hilfiker, E.A. Marais, A.M. Middlebrook, J.A. Neuman, J.B. Nowak, B.B. Palm, F. Paulot, J.R. Pierce, G.P. Schill, E. Scheuer, J.A. Thornton, K. Tsigaridis, P.O. Wennberg, C.J. Williamson, and J.L. Jimenez. 2022. Airborne Observations and Modeling Comparison of Global Inorganic Aerosol Acidity. ORNL DAAC, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1857>
3. Brock, C.A., K.D. Froyd, M. Dollner, C.J. Williamson, G.P. Schill, D.M. Murphy, N.L. Wagner, A. Kupc, J.L. Jimenez, P. Campuzano-Jost, B.A. Nault, J.C. Schroder, D.A. Day, D.J. Price, B.B. Weinzierl, J.P. Schwarz, J.M. Katich, S. Wang, L.H. Zeng, R. Weber, J.E. Dibb, E. Scheuer, G.S. Diskin, J.P. DiGangi, T.P. Bui, J.M. Dean-Day, C.R. Thompson, J. Peischl, T.B. Ryerson, I. Bourgeois, B.C. Daube, R. Commane, and S.C. Wofsy. 2021. ATom: Comprehensive Aerosol Properties, 2016-2018. ORNL DAAC, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1908>
4. Wofsy, S.C., S. Afshar, H.M. Allen, E.C. Apel, E.C. Asher, B. Barletta, J. Bent, H. Bian, B.C. Biggs, D.R. Blake, N. Blake, I. Bourgeois, C.A. Brock, W.H. Brune, J.W. Budney, T.P. Bui, A. Butler, P. Campuzano-Jost, C.S. Chang, M. Chin, R. Commane, G. Correa, J.D. Crounse, P. D. Cullis, B.C. Daube, D.A. Day, J.M. Dean-Day, J.E. Dibb, J.P. DiGangi, G.S. Diskin, M. Dollner, J.W. Elkins, F. Erdesz, A.M. Fiore, C.M. Flynn, K.D. Froyd, D.W. Gesler, S.R. Hall, T.F. Hanisco, R.A. Hannun, A.J. Hills, E.J. Hints, A. Hoffman, R.S. Hornbrook, L.G. Huey, S. Hughes, J.L. Jimenez, B.J. Johnson, J.M. Katich, R.F. Keeling, M.J. Kim, A. Kupc, L.R. Lait, K. McKain, R.J. McLaughlin, S. Meinardi, D.O. Miller, S.A. Montzka, F.L. Moore, E.J. Morgan, D.M. Murphy, L.T. Murray, B.A. Nault, J.A. Neuman, P.A. Newman, J.M. Nicely, X. Pan, W. Paplawsky, J. Peischl, M.J. Prather, D.J. Price, E.A. Ray, J.M. Reeves, M. Richardson, A.W. Rollins, K.H. Rosenlof, T.B. Ryerson, E. Scheuer, G.P. Schill, J.C. Schroder, J.P. Schwarz, J.M. St.Clair, S.D. Steenrod, B.B. Stephens, S.A. Strode, C. Sweeney, D. Tanner, A.P. Teng, A.B. Thames, C.R. Thompson, K. Ullmann, P.R. Veres, N.L. Wagner, A. Watt, R. Weber, B.B. Weinzierl, P.O. Wennberg, C.J. Williamson, J.C. Wilson, G.M. Wolfe, C.T. Woods, L.H. Zeng, and N. Vieznor. 2021. ATom: Merged Atmospheric Chemistry, Trace Gases, and Aerosols, Version 2. ORNL DAAC, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1925>
5. Jimenez, J.L., P. Campuzano-Jost, D.A. Day, B.A. Nault, D.J. Price, and J.C. Schroder. 2019. ATom: L2 Measurements from CU High-Resolution Aerosol Mass Spectrometer (HR-AMS). ORNL DAAC, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1716>

ORAL PRESENTATIONS

41st Annual Conference of the American Association for Aerosol Research, Portland, Oregon (Oct 2023)

Day, D.A., Nault, B.A., Campuzano-Jost, P., Jimenez, J.L.: [Evaluation of Uncertainties and Introduction of Tools for Quantification of Bulk Particle-phase Organic Nitrates Using Real-time Aerosol Mass Spectrometry.](#)

2023 AMS/ACSM Users' Meeting, Portland, Oregon, United States (Oct 2023)

Day, D.A., Campuzano Jost, P., Nault, B.A., Sueper, D., Jimenez, J.L.: [Evaluation of Uncertainties and Introduction of Tools for Quantification of Particle-phase Organic Nitrates and Ammonium Nitrate Using AMS.](#)

Analytical & Environmental Chemistry Division and Atmospheric Chemistry Program, Boulder, Colorado (Jan 2023)

Day, D.A., Fry, J.L., Kang, H.G., Krechmer, J.E., Ayres, B.R., Keehan, N.I., Thompson, S.L., Hu, W.W., Campuzano-Jost, P., Schroder, J.C., Stark, H., DeVault, M.P., Ziemann, P.J., Zarzana, K.J., Wild R.J., Dub  , W.P., Brown, S.S., Jimenez, J.L., 2023-1-23: [Secondary Organic Aerosol Mass Yields from NO₃ Oxidation of \$\alpha\$ -Pinene and \$\beta\$ -Carene: Effect of RO₂ Radical Fate.](#)

American Association for Aerosol Research (AAAR) 40th Annual Conference, Raleigh, North Carolina, USA, Oct 2022

Day, D.A., Fry, J.L., Kang, H.G., Krechmer, J.E., Ayres, B.R., Keehan, N.I., Thompson, S.L., Hu, W.W., Campuzano-Jost, P., Schroder, J.C., Stark, H., DeVault, M.P., Ziemann, P.J., Zarzana, K.J.,

Wild R.J., Dub  , W.P., Brown, S.S., Jimenez, J.L., 2022-10-3: [Secondary Organic Aerosol Mass Yields and Composition from NO₃ Oxidation of alpha pinene and delta carene: Effect of RO₂ Radical Fate.](#)

Aerosol Mass Spectrometry (AMS) Users Mini Meeting, Raleigh, North Carolina, USA, Oct 2022

Day, D.A. and Campuzano-Jost, P., 2022-10-3: [Beyond sulfate and OA: pRONO₂ apportionment and non-standard Species.](#)

2021 Virtual AMS/ACSM Users Meeting – January 19-22, 2021

Doug Day, Pedro Campuzano Jost, Ben Nault, Brett Palm, Weiwei Hu, Paul Wooldridge, Ron Cohen, Ken Docherty, Alex Huffman, Suzane de S  , Scot Martin, Jose L. Jimenez, *Evaluation and Applications of Methods for Quantification of Bulk Particle-phase Organic Nitrates Using Real-time Aerosol Mass Spectrometry*

AAAR 2020 Annual Conference, October 2020 (Remote)

Douglas A. Day, Pedro Campuzano-Jost, Benjamin A. Nault, Brett B. Palm, Weiwei Hu, Paul J. Wooldridge, Ronald C. Cohen, Kenneth. S. Docherty, J. Alex Huffman, Suzane S. de S  , Scot T. Martin, Jose L. Jimenez *Evaluation and Applications of Methods for Quantification of Bulk Particle-phase Organic Nitrates Using Real-time Aerosol Mass Spectrometry*

Univ. of Colorado Analytical Seminar, April 2018 (Boulder, CO)

Douglas A. Day, Pedro Campuzano-Jost, Benjamin A. Nault, Brett B. Palm, Weiwei Hu, Paul J. Wooldridge, Ronald C. Cohen, Kenneth. S. Docherty, J. Alex Huffman, Jose-Luis Jimenez *Observations of particle organic nitrates from airborne/ground platforms: Insights into method improvement, vertical/geographical distribution, gas/particle partitioning, losses, and contribution to total particle nitrate*

Univ. of Colorado Analytical Seminar, Oct 2015 (Boulder, CO)

Doug Day, Jose Jimenez et al. *Particle Size Resolution of the Aerodyne Aerosol Mass Spectrometer*

NO₃-BVOC Workshop, June 2015, GA Tech, Atlanta

Doug Day, Pedro Campuzano-Jost, Brett Palm, Weiwei Hu, Zhe Peng, Patrick Hayes, Harald Stark, Donna Sueper, Jose-Luis Jimenez, Julie Fry, Daniel Draper, Steve Brown, Kyle Zarzana, Pete Edwards, Ben Ayres, Ron Cohen, Ben Nault, Paul Wooldridge, Paul Romer, Nick Wagner, Joel Thornton, Ben Lee, Felipe Lopez-Hilfiker, Claudia Mohr, Sally Ng, Lu Xu, Joost de Gouw, Abby Koss, *Measurements of Organic Nitrate Aerosol from Aircraft and of SOA with an NO₃ Oxidation Flow Reactor*

ACS Spring Meeting, March, 2015, Denver

Jose-Luis Jimenez, Weiwei Hu, Jordan Krechmer, Patrick Hayes, Brett Palm, Pedro Campuzano-Jost, **Doug Day (delivered)**, Sam Thompson, Reddy Yatavelli, Harald Stark, Donna Sueper, Zhe Peng, John Seinfeld, Thanh Nguyen, Becky Schwantes, Matt Coggon, Xuan Zhang, Alex Teng, Doug Worsnop, Manjula Canagaratna, John Jayne, Paola Massoli, Gabriel Isaacman, Nathan Kreisberg, Susanne Hering, Allen Goldstein, John Crounse, Jason St. Clair, Paul Wennberg, Fabien Paulot, Suzane Simoes de Sa, Scot Martin, Eloise Marais, Daniel Jacob, Hugh Coe, James Allan, Niall Robinson, Armin Wisthaler, Tomas Mikovini, Frank Keutsch, Jean Rivera-Rios, Roger Seco, Alex Guenther, James Hunter, Jesse Kroll, Patrick Kim, Rupert Holzinger, Anwar Khan, Joel Thornton, Felipe Lopez-Hilfiker, Claudia Mohr, et al., *SOA Sources, Properties, & Aging from Recent Field Studies*, Invited Talk, PHYS 230

ASR-DOE Spring 2014 Science Team Meeting, Potomac MD, October, 2014.

Douglas A. Day, Jose-Luis Jimenez, Brett B. Palm, Amber M. Ortega, Weiwei Hu, Pedro Campuzano-Jost, Reddy Yatavelli, Harald Stark, Samantha L. Thompson, Jordan Krechmer, Joel T. Thornton, Rui Li, Joost de Gouw, Manjula Canagaratna, John T. Jayne, Douglas R. Worsnop, Scot Martin, Suzane Simões de Sá, M. Elizabeth Alexander, Matt K. Newburn, Alex Guenther, Roger Seco, Saewung Kim, Jeong-Hoo Park, Allen Goldstein, Gabriel Isaacman, Lindsay Yee, Paulo Artaxo, Joel Ferreira de Brito, Rodrigo Souza, Antonio O. Manzi, Oscar Vega, Julio Tota, Juliane Fry, Danielle C. Draper, Kyle J. Zarzana, Steven S. Brown, Anwar Khan, Rupert Holzinger, Felipe Lopez-Hilfiker, Claudia Mohr, Thomas Karl, Armin Hansel, Lisa Kaser, Abby Koss. *Understanding SOA formation and evolution through development and application of new analytical methods.*

ASR-DOE Fall 2013 Working Group Meeting, Rockville MD, October 2013

D. A. Day, J.L. Jimenez, B.B. Palm, A.M Ortega, Pedro Campuzano Jost, R. Yatavelli, H. Stark, S. Thompson, J.R. Kimmel, M. J. Cubison, J.A. Thornton, J. T. Jayne, D.R. Worsnop, J.L. Jimenez.

Measurements of SOA formation potential, chemical evolution, and gas-particle partitioning

BEACHON-RoMBAS Data Analysis Meeting, Boulder Colorado, November, 2012

Doug Day, *BEACHON-RoMBAS Data Meeting Introduction and Overview*

ASR-DOE Fall 2012 Working Group Meeting, Rockville MD, November 2012

D. A. Day, J.L. Jimenez, B.B. Palm, A.M Ortega, Pedro Campuzano Jost, R. Yatavelli, H. Stark, S. Thompson, J.R. Kimmel, M. J. Cubison, J.A. Thornton, J. T. Jayne, D.R. Worsnop, J.L. Jimenez,

SOA formation potential with different oxidants; New Particle & SOA Formation Potential: Urban Areas; Gas/Particle Partitioning Model (MOVI-HRToF-CIMS).

ASR-DOE Fall 2011 Working Group Meeting, Annapolis MD, October 2011

D. A. Day, J. L. Jimenez, R. M. Volkamer, J. A. Thornton, L. R. Williams, S. C. Herndon, J. T. Jayne, A. Freedman, D. R. Worsnop, M. K. Dubey, A. Aiken, K. Gorkowski, R. Coulter and T. Martin, J. A. de Gouw, *GVAX-Pantnagar Supersite Update*

ASR-DOE Fall 2011 Working Group Meeting, Annapolis MD, October 2011

D. A. Day, J. L. Jimenez, A. M. Ortega, P. Campuzano-Jost, B. B. Palm, M. J. Cubison, *Potential Aerosol Mass (PAM) Flow Reactor Measurements During FLAME-3, CalNex, and BEACHON-RoMBAS*

Scripps Institution of Oceanography, Aerosol Group Seminar, January 2010

Organonitrate group concentrations in submicron particles with high nitrate and organic fractions in coastal southern California

Scripps Institution of Oceanography, Aerosol Group Seminar, February 2009

Regional Differences in Organic Composition of Submicron and Single Particles During INTEX-B 2006

Scripps Institution of Oceanography, July 2008 – Invited Speaker

Coastal Carbon Monoxide: Marine Biogeochemical Cycling and Ship Emissions.

University of California, Davis, Air Quality Group Seminar, July 2006

Observations of Dissolved CO and CDOM in a Coastal Upwelling Region in Northern California

SOLAS Summer School, Institut d'Etudes Scientifiques de Cargèse, Corsica, France, Sept. 2005
Observations of dissolved CO and CDOM at a coastal upwelling region in California.

University of California, Davis, Air Quality Group Seminar, November 2004
Establishing a Coastal CO Flux Monitoring Station at Bodega Bay, California: A study of marine biogeochemistry

NASA Ames Research Center, Earth Science Division, March 2004 – Invited Speaker
Observations of NO₂, Total Peroxy Nitrates, Total Alkyl Nitrates, and HNO₃ in the Mid-Sierras and Sacramento Plume Using Thermal Dissociation – Laser Induced Fluorescence: A Novel Measurement Technique, Diurnal and Seasonal Cycles, and ‘The Missing NO_y’

Sonoma Technologies, Inc., Petaluma, CA, April 2004 – Invited Speaker
Observations of NO₂, Total Peroxy Nitrates, Total Alkyl Nitrates, and HNO₃ in the Mid-Sierras and Sacramento Plume Using Thermal Dissociation – Laser Induced Fluorescence: A Novel Measurement Technique, Diurnal and Seasonal Cycles, and ‘The Missing NO_y’

University of California, Davis, Air Quality Group Seminar, May 2004 – Invited Speaker
Observations of NO₂, Total Peroxy Nitrates, Total Alkyl Nitrates, and HNO₃ in the Mid-Sierras and Sacramento Plume Using Thermal Dissociation – Laser Induced Fluorescence: A Novel Measurement Technique, Diurnal and Seasonal Cycles, and ‘The Missing NO_y’

University of California, Berkeley, Department of Chemistry, Cohen Research Group
Biannual seminars presenting current research (1997-2003)

University of California Blodgett Forest Research Symposium, January 2001
Observations of HNO₃, Alkyl Nitrates, Peroxynitrates and NO₂ in the Sacramento Plume

University of California Blodgett Forest Research Symposium, February 1999
NO_y Detection by Thermal Decomposition with Laser Induced Fluorescence

University of California, Berkeley, Department of Chemistry, Graduate Research Conference, February 1998
Reaction Kinetics of NO₂ and HNO₃ on Black Carbon Aerosols

POSTER PRESENTATIONS (AS PRESENTER)

International Global Atmospheric Chemistry (IGAC), Sept 2016, Breckenridge, CO
http://www.igac2016.org/2016IGAC_ConferenceAbstracts.pdf
Douglas A. Day, Pedro Campuzano-Jost, Brett B. Palm, Weiwei Hu, Benjamin A. Nault, Paul J. Wooldridge, Ronald C. Cohen, Kenneth. S. Docherty, Nicholas L. Wagner, J. Alex Huffman, Jose-Luis Jimenez, *Observations of particle organic nitrate from airborne/ground platforms: Insights into vertical/geographical distribution, gas/particle partitioning, losses, and contribution to total particle nitrate*

American Geophysical Union Fall Meeting, December 2015, San Francisco
<http://fallmeeting.agu.org/2015/scientific-program>
Douglas A. Day, Pedro Campuzano-Jost, Brett B. Palm, Weiwei Hu, Benjamin A. Nault, Paul J. Wooldridge, Ronald C. Cohen, Kenneth. S. Docherty, Nicholas L. Wagner, Jose-Luis Jimenez, *Observations of particle organic nitrate from airborne and ground platforms in North America:*

Insights into vertical and geographical distributions, gas/particle partitioning, losses, and contributions to total particle nitrate. A11K-0218

ASR-DOE 2014 Science Team Meeting, Potomac, MD, March 2014

<https://asr.science.energy.gov/meetings/stm/2014-march>

Day, Douglas A., Jose-Luis Jimenez, Brett B. Palm, Amber M. Ortega, Weiwei Hu, Pedro Campuzano-Jost, Reddy Yatawelli, Harald Stark, Samantha L. Thompson, Jordan Krechmer, Joel T. Thornton, Rui Li, Joost de Gouw, Manjula Canagaratna, John T. Jayne, Douglas R. Worsnop, Scot Martin, Suzane Simões de Sá, M. Elizabeth Alexander, Matt K. Newburn, Alex Guenther, Roger Seco, Saewung Kim, Jeong-Hoo Park, Allen Goldstein, Gabriel Isaacman, Lindsay Yee, Paulo Artaxo, Joel Ferreira de Brito, Rodrigo Souza, Antonio O. Manzi, Oscar Vega, Julio Tota, Juliane Fry, Danielle C. Draper, Kyle J. Zarzana, Steven S. Brown, Anwar Khan, Rupert Holzinger, Felipe Lopez-Hilfiker, Claudia Mohr, Thomas Karl, Armin Hansel, Lisa Kaser, Abby Koss, *Understanding SOA formation and evolution through development and application of new analytical methods*

AAAR 30th Annual Conference, Orlando, FL, October 2011

<https://www.aaar.org/meetings-events/archived-meetings>

Douglas A Day, Richard C Flagan, Douglas R Worsnop, Jose L Jimenez, *Size Resolution of the Aerodyne Aerosol Mass Spectrometer. (5A.21)*

PROFESSIONAL AFFILIATIONS

2011-present	American Association for Aerosol Research
1998-present	American Geophysical Union
1995-present	Phi Beta Kappa Society