Jose L. Jimenez – Curriculum Vitae

Professor of Chemistry & Biochemistry; Fellow of CIRES
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Education

Massachusetts Institute of Technology, Cambridge, MA
***Ph.D. in Mechanical Engineering**, February 1999.*

- Thesis: "Understanding and Quantifying Motor Vehicle Emissions with Vehicle Specific Power and TILDAS Remote Sensing." PDF of thesis. Thesis Committee: Prof. Gregory J. McRae (MIT, advisor), Dr. Robert Slott (Shell and MIT), Dr. David Nelson (Aerodyne Research), Prof. John Heywood (MIT), and Prof. Ahmed Ghoniem (MIT). Minor in Scientific Computing.

Universidad de Zaragoza, Zaragoza, Spain and Université de Technologie de Compiègne, Compiègne, France
Double Mechanical Engineer degree, July 1993.

- Emphasis in analysis and design of fluid, thermal and chemical systems.

Research Experience

University of Colorado at Boulder, Dept. of Chemistry and Biochemistry & CIRES, Boulder, CO
***Distinguished Professor & CIRES Fellow**, Oct. 2021 - present*
***Professor & CIRES Fellow**, May 2014 - Sep. 2021*
***Associate Professor (with tenure) & CIRES Fellow**, Mar. 2008 - May 2014*
***Assistant Professor & CIRES Fellow**, Aug. 2002 - Feb. 2008*

- Carried out Aerosol Mass Spectrometer (AMS) and other measurements at more than 40 national and international field studies from aircraft and groud sites. *Study list.*
- Co-developed the Aerodyne Time-of-Flight Aerosol Mass Spectrometer (ToF-AMS) and several other techniques.
- Authored or co-authored 525+ peer-reviewed journal papers. Web of Science Citation index: h = 105; 40,469 citations, 84 "Highly-Cited Papers" (top 1% in their fields), 2 WOS "Fast-Breaking Papers," 3 WOS "Hot Papers". Google Scholar Citation Index: h = 120; 57,261 citations.
- Received $25.3M in research funding (up to Feb. 2024).
- Graduated 10 PhD students, 5 MS students, and 18 postdocs. Current advisor to 6 PhD students, 1 postdocs, and 3 research scientists (as of Feb. 2024).

Institute of Environmental Assessment and Water Research, Consejo Superior de Investigaciones Cientificas, Barcelona, Spain
***Visiting Professor**, Jan. - Jun. 2009*

- Co-organized the DAURE field study and deployed an aerosol mass spectrometer and other instrumentation for one month.

Collaborated on DAURE data analysis and other projects with host group.

California Institute of Technology Dept. of Environmental Science and Engineering, Pasadena, CA
***Postdoctoral Scholar**, June 2000 - July 2002. Advisors: Profs. John Seinfeld and Richard Flagan*

- Deployed an aerosol mass spectrometer (AMS) on board of the CIRPAS Twin Otter Aircraft during the ACE-Asia and CRYSTAL-FACE projects (first airborne operation of any AMS).
- Carried out an experimental and modeling study of new particle formation from the photooxidation of a halogenated organic in a smog chamber.
- Further developed the quadrupole AMS.

Aerodyne Research (Aerosol Group) and MIT Dept. of Chemical Eng., Cambridge, MA
***Research Scientist / Research Affiliate**, Jan. 1999 - June 2000. Advisors: Dr. Doug Worsnop and Prof. Ken A. Smith*

- Co-developed and demonstrated an advanced Aerosol Mass Spectrometer. Built a real-time control, and data acquisition, analysis, and display system.
- Led the first three field measurements campaigns with the AMS: the U.S. EPA particulate matter "Supersite" experiments in Atlanta (1999) and Houston (2000) as well as the Georgia FAQS 2000 experiment.

MIT Department of Mechanical Engineering, Cambridge, MA
***Ph.D. Student**, 1995 - 1998. Advisor: Prof. Gregory J. McRae*

- Co-developed and applied a new laser-based cross-road remote sensor for motor vehicle emissions measurement, in collaboration with Aerodyne Research (Chemistry Group).
- Demonstrated sensitivity one to two orders of magnitude better, and optical path five times longer, than previous techniques.
- Led two field campaigns for automobile and heavy duty diesel truck emissions measurement and subsequent data analysis.
- Performed first cross-road NO_2 and N_2O emission measurements. Our N_2O emission measurements were used to correct an error in the 1995 report of the Intergovernmental Panel on Climate Change (IPCC).
- Developed a new parameterization of the dependence of vehicle emissions on instantaneous engine power demand.

MIT Combustion Research Facility, Cambridge, MA
***Visiting Research Engineer**, 1993 - 1994. Advisors: Prof. Janos M. Beér and Dr. Laszlo Barta*

- Tested and optimized low NO_x burners for natural gas, fuel-oil, and pulverized coal flames, through experiments in a 3 MW flame tunnel, and simulations of the fluid dynamics and chemical kinetics.

Franco-Belge de Fabrication de Combustibles, Romans, France
***Engineering Intern,** July - Aug. 1992.*

- Studied the manufacturing process of nuclear fuel rods and recommended improvements to the production manager.

Teaching Experience

CU Department of Chemistry, Boulder, CO

- CHEM-5181: Mass Spectrometry & Chromatography (Graduate)
- CHEM-5151/ATOC-5151: Atmospheric Chemistry (Graduate)
- CHEM-4181: Instrumental Analysis Laboratory (Undergraduate)

- CHEM-5152/ATOC-5152: Advanced Atmospheric Chemistry (Graduate)
- CHEM-5121: Practical Laboratory Skills for Atmospheric Chemistry (Graduate)
- CHEM-6101: Analytical & Environmental Chemistry Seminar
- CHEM-5121: Practical Laboratory Skills for Atmospheric Chemistry (Graduate)
- CHEM-6901: Special Topics / Chemistry
- CHEM-8991: Doctoral Dissertation

Invited Teaching

- Lecturer in the Master on Pandemics of CSIC & UIMP, 2021 and 2022
- Invited lecture in Healthy Buildings (graduate course), Harvard School of Public Health, Feb. 2021.
- Invited lecture in The Pandemic and Society (undergraduate course) Washington University in St. Louis, Aug. 2020
- Invited Tutorial Lecture on Oxidation Flow Reactors, International Aerosol Conference, St. Louis, MO, Sep. 2018.
- Invited Tutorial Lecture on "Oxidation Flow Reactors (including PAM): Principles, Best Practices, and Applications to Aerosol Research", AAAR 2017 Conference. Recs. & PDF
- Invited Tutorial Lecture on "Aerosol Mass Spectrometry Instrumentation" at the 31st Annual Conference of the AAAR, Minneapolis, MN, Oct. 2012. PDF
- Invited Tutorial Lecture on "Real-Time Aerosol Mass Spectrometry" at the International Aerosol Conference, Helsinki, Finland, Aug. 2010. PDF
- Invited Tutorial Lecture on “Thermal Desorption Aerosol Mass Spectrometry” at the 23rd Annual Conference of the American Association for Aerosol Research, October 2004. PDF
- Invited Lecture on Aerosol Mass Spectrometry at the 27th Annual Course "Aerosol and Particle Measurement" of the Particle Technology Laboratory of the University of Minnesota (organized by David Pui and Peter McMurry), Aug. 2003.
- Invited Tutorial Lecture on “Aerosol Mass Spectrometry: Instrumentation and Applications” at the 21st Annual Conference of the American Association for Aerosol Research, October 2002. PDF
- Invited lectures in Air Pollution Control (Graduate Course) (Spring 1997 and 1998).
- Lecturer at the Harvard-Complutense Environmental Engineering and Technology Summer Course (Graduate level, Summers of 1996 and 1997).

Awards & Honors

- 2023 AS&T Outstanding Publication Award for DeCarlo et al. (2004)
- 2014 to 2023 Highly Cited Researcher (Thomson Reuters) in Geosciences
- Top 10 Cited Scientist in Atmospheric Chemistry, Mass Spectrometry, Aerosols, Air Quality, and Air Pollution (Google Scholar)
- Ranked #9 among Top Scientists in Environmental Science for 2022 by Research.com
- Awarded an Honorary Doctorate (“Doctor Honoris Causa”) by the University of Zaragoza, Spain, 2021
- Named as a University of Colorado Distinguished Professor (Highest Honor for faculty at CU), 2021.
- Five (5) Awards from Spanish Organizations for leadership on research and outreach on airborne transmission of COVID-19: “Hijo Predilecto (Preferred Son)” of the City of Zaragoza, Spain; “A Tu Salud” award from La Razon National Newspaper; “Colegiado de Honor” del Colegio Oficial de Ingenieros Industriales de Aragon y La Rioja; “Premio Admirables” de Diario Medico; 2020 "Tercer Milenio" Award from Heraldo de Aragón newspaper.
- Robert Stearns Award from the CU-Boulder Alumni Association to the Pandemic response Team (of which I was part), Nov. 2021
- 2021 CIRES Bronze Medal (equivalent to NOAA's Bronze Medal) "for outstanding execution of the FIREX-AQ mission, a joint venture with NASA to improve understanding of air quality and climate impacts of fires"
- 2021 CIRES Outstanding Performance Award to my research group members for "for a decade, developing and engineering one of the world’s most comprehensive and high-performance flight instruments for measuring aerosol chemical composition"

- Profiled in ACS Central Science, C&EN News, and MIT Technology Review for work on COVID-19 transmission research and outreach.
- 2020 NASA Group Achievement Award for the "Fire Influence on Regional to Global Environments and Air Quality (FIREX-AQ)" Project
- Elected Fellow of the American Association for Aerosol Research (AAAR), 2016
- Elected Fellow of the American Geophysical Union (AGU), 2015
- World's Most Influential Scientific Minds, 2014 and 2015
- 5th Most Cited Scientist in the Geosciences (Web of Sci. for 2014)
- Top 10 Cited Scientist at the Univ. of Colorado-Boulder across all fields (Google Scholar)
- 2019 NASA Group Achievement Award for the "ATom: Atmospheric Tomography" Project
- 2018 NASA Group Achievement Award for the "KORUS-AQ: An International Cooperative Air Quality Field Study in Korea" Project
- "Top Cited Article" in Reviews of Geophysics, 2017
- 2015 College Scholar Award, University of Colorado
- 3 former PhD students and 1 former postdoc from my group were listed in the 2014 Thomson ISI Highly Cited Scientists, mostly or completely for work done within my group
- 2015 NASA Group Achievement Award for the Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC4RS) Experiment
- Our Zhang et al. (2007) paper was selected for the 40th Year Anniversary Special Collection of GRL.
- 2012 AGU Ascent Award "as an exceptional mid-career scientist demonstrating excellence in research and leadership in his field" (Citation)
- ISI Citation Index h = 105, 40,469 citations
- Google Scholar Citation Index: h = 120, 57,261 citations
- 2010 "Rosenstiel Award" of the Rosenstiel Foundation and the Rosenstiel School of Marine and Atmospheric Science at the University of Miami for "outstanding contributions [and] a significant and growing impact in the last decade" in marine and atmospheric science.
- Two "Fast Breaking Paper" recognitions from Thomson ISI for Ulbrich et al. (ACP 2009) and Jimenez et al. (Science 2009).
- 2008 Kenneth T. Whitby Award of the American Association for Aerosol Research (AAAR) for "outstanding contributions to aerosol science and technology" (Citation)
- Eighty-Four (84) "Highly Cited Papers" (Top 1% in their journals) according to Web of Science (as of Sep. 2018). 28% of our papers are Top 1% in citations, compared to the 1% statistical chance.
- Two hundred and thirty six (236) "Top 10% Cited Papers" (as of sep. 2018). 78% of our papers are Top 10% in citations, compared to the 10% statistical chance.
- Three (3) "Top 20 Cited Papers" in the Journal *Environmental Science & Technology*
- "Top Cited Paper" in Atmospheric Environment in 2010-11
- 2008 NASA Group Achievement Award for the Artic Research with Aircraft and Satellites (ARCTAS) experiment
- 2007 Provost Faculty Achievement Award, University of Colorado
- 2006 NASA Group Achievement Award for the Intercontinental Chemical Transport Experiment (INTEX-B)
- 2004 NSF Young Investigator "CAREER" Award
- Cover Articles in Geosphysical Research Letters (2010) and the *Journal of Geophysical Research-Atmospheres* Special Issue on EPA Supersites (2005)
- Excellence in Reviewing Award from the Journal *Environmental Science & Technology*, 2003.
- NASA Group Achievement Awards for the CRYSTAL-FACE Field Mission, 2003.
- ICREA Fellowship, Spain, declined, 2001
- Ramon y Cajal Postdoctoral Fellowship, Spain, declined, 2001
- La Caixa Foundation Doctoral Fellowship, 1994-1996.
- Best Technical Paper Award of the American Society of Mechanical Engineers (ASME) Fuels and Combustion Technologies Division, 1994.
- Best Advanced Fluid Mechanics Student (of 62) Award at MIT's Mechanical Eng. Dept., 1994.
- Madrid Savings Bank Foundation Fellowship, 1993.
- Zaragoza Fluid Mechanics Group and Combustion Research Facility Fellowship, 1993.

- "Extraordinary Prize" of the University of Zaragoza as the best Mech. Eng. student in the class of 1993.
- European Union Erasmus ECTS International Exchange Program Fellowship, 1990-91.

Articles in Mainstream Media & Outreach Blogs

- Substack Blog: "Germicidal UV: a tradeoff between disinfection and indoor smog", Dec. 2022.
- Substack Blog: "Lower-Cost Real-Time Radon Sensors Are Very Useful" Nov. 2022.
- Time Magazine Op-Ed, "Our Early Confusion About Airborne COVID-19 Transmission Still Haunts Us" Mar. 2022.
- The Conversation in Spanish, ¿Dónde y cómo es más probable contagiarse de covid-19?, Jan. 2022.
- The Conversation, Here's where (and how) you are most likely to catch COVID – new study, Jan. 2022.
- Op-Ed in Time Magazine, "COVID-19 Is Transmitted Through Aerosols. We Have Enough Evidence, Now It Is Time to Act.", 2020
- Tribuna (Op-Ed) in El Pais (most important newspaper in Spain), "La covid se transmite a través de aerosoles: ya es el momento de actuar, tenemos suficientes pruebas", 2020
- Medium Blog: "How to quantify the ventilation rate of an indoor space using an affordable CO2 monitor", 2020
- Blog of the Barcelona Institute on Global Health (ISGlobal), "Can the Air in Our Cities Contain the SARS-CoV-2 Virus?", 2020

Professional Service and Outreach

- Member of Scientific Advisory Committee of Fundación GADEA por la Ciencia (Spain), 2022-.
- Member of Committee of UNE Spanish Standards Organization working on a new standard for CO2 measurements for indoor air quality, 2022-
- Member of ASTM Committee working on a new Standard for chemical byproduct formation from air cleaners, 2022-
- Co-Author of US White House document on "Getting to and Sustaining the Next Normal: A Roadmap for Living with COVID-19", 2022
- Member of ASHRAE's Built Environmental Quality Expert Panel, 2021
- Led a group of 11 top scientists in the writing of the Frequently Asked Questions on COVID-19 Aerosol Transmission These have been used extensively internationally, and have been discussed in many press articles.
- Briefed US Senate staff, a US Congressman, and consulted with numerous international organizations, national / regional / local governments and public health agencies, large corporations, small companies, school districts etc. on preventing airborne transmission of COVID-19. 2020-21.
- Wrote a public and free COVID-19 Aerosol Transmission Estimator, based on peer-reviewed research. This estimator has been used extensively by many organizations in planning their activities under COVID-19, including CU-Boulder, multiple Fortune 500 corporations, school districts, regional and local governments, and it has been covered in multiple press articles such as in National Geographic.
- Created a YouTube Channel for communication with other scientists and the public about COVID-19 transmission. As of March 2021 those videos have been viewed 167,000 times.
- Led the Aireamos Group, that groups together volunteer scientists and civic organizations in Spain and Latin America, to communicate and help disseminate the application of ventilation and low-cost CO2 meters for preventing the transmission of COVID-19.
- Posted extensively in Twitter for scientific communication and outreach on airborne transmission of COVID-19 and other respiratory diseases. Both for extensive discussions with other scientists across many fields, and also extensive public outreach in Spanish and English. I went from 600 (in early 2020) to over 100,000 followers (2022).
- Created and maintain multiple free open sources software resources for chemical kinetics modeling, tubing modeling, OFR modeling, RO2 fate modeling, and multiple online databases of AMS data, AMS spectra etc.
- Created and maintain Groups for Jobs in Atmospheric Chemistry and Aerosols (2016-present).

https://twitter.com/AtmChemAeroJobs
- Member of the Advisory Board for the HOMEChem field campaign, supported by the Sloan Foundation, 2018.
- Member of the Organizing Committee of the 2016 International Global Atmospheric Chemistry (IGAC) Science Conference
- Co-Principal Investigator of the *Southern Oxidant and Aerosol Study (SOAS)*, 2011-2016.
- Associate Editor of the journal *Atmospheric Measurement Techniques*, 2009-2014. (AMT Impact Factor in 2011 = 3.34)
- Editor of ACP Special Issue on MEGAPOLI-Paris Field Experiment
- Editor of the journal *Atmospheric Chemistry and Physics*, 2006-2012. (ACP Impact Factor in 2012 = 5.51)
- Member of the Editorial Advisory Board of *Aerosol Science and Technology*, 2010-present. (AS&T Impact Factor in 2011 = 2.67)
- Member of the Editorial Advisory Board of *Atmospheric Environment*, 2011-2016. (AE Impact Factor in 2011 = 3.47)
- Member of the Scientific Advisory Board of the *Institute of Environmental Assessment and Water Research (IDAEA, CSIC)*, Barcelona, Spain, 2011-2014.
- Convener of conference symposia and special sessions: "Oxidation Flow Reactors: Development, Characterization, and Application to Aerosols" at the 2018 International Aerosol Conference; "Results from Recent Field Studies on the North American West Coast" at the 2011 Annual Conference of the AAAR; 2008 Telluride Workshop on "Organic Aerosols in the Atmosphere"; "Emerging Mass Spectrometry Techniques in Environmental Analysis" at the 2008 Annual Conference of the ASMS; "Day and Nighttime Chemical Processing in Polluted Atmospheres" at the 2007 Fall Meeting of the AGU; "Advances on Instrumentation for Organic Aerosols" at the 2007 Annual Conference of the AAAR; "Heterogeneous Chemistry" at the 2003 Annual Conference of the AAAR.
- Invited member to the Editorial Advisory Board for *Annual Review of Physical Chemistry*, 2011
- Invited Presenter for the Board on Atmospheric Sciences and Climate, *US National Academy of Sciences*, 2010.
- Member of the Publications Committee of the *American Association for Aerosol Research*, 2008-2011
- Member of the NASA Tropospheric Airborne Measurement Evaluation Panel (TAbMEP), 2008-present
- Member of the Science Steering Committee for the 2006 Mexico City Metropolitan Area (MCMA-2006) Field Campaign
- Member of Technical Program Committee, 23rd, 26th, and 31st Annual Conferences of the AAAR (2004, 2007, and 2012)
- Invited presenter to the Board of Scientific Counselors (BOSC) Review Panel of the US EPA PM and Ozone Research Program, March 2005.
- Webmaster for the Aerosol MS web pages, the AMS Publications web page, and the AMS Users Meetings web pages, with 25,000+ total page visits per year. (2000-present)
- Co-organizer of the 1st-13th Aerodyne Aerosol Mass Spectrometer Users' Meetings (2001-2012).
- Organizer of the 1st-6th Aerosol Mass Spectrometer Users' Instrumentation and Data Analysis Clinics (2009-2015).
- Chair (2012) of the Instrumentation Working Group and Chair (2003-04) and Co-chair (2002-03) of the Aerosol Chemistry Working Group of the American Association for Aerosol Research.
- Invited Panelist to the NSF Workshop "Emerging Issues in Nanoaerosol Science and Technology," organized by Prof. Sheldon Friedlander of UCLA (June 2003).
- Member of the External Review Panel for Air Pollution and Combustion Research at the Spanish National Laboratory for Energy and Environmental Research (CIEMAT), February 2003.
- Session chair multiple times at the Annual Conferences of the AAAR, the AGU, the ASMS, and the EGU, 2000-present.
- Invited Presenter for the Committee of the National Academy of Sciences on Motor Vehicle Emissions Modeling (1999).
- Frequent referee of journal papers for Science, Nature, Environmental Science & Technology, Journal of Geophysical Research - Atmospheres, Atmospheric Chemistry & Physics, Atmospheric Environment,

Analytical Chemistry, Journal of Aerosol Science, Aerosol Science & Technology, Geophysical Research Letters, Journal of the Air and Waste Management Association, Environmental Chemistry, Tellus B, Boreal Environment Research, Journal of Atmospheric and Oceanic Technology, and Elements.

- Peer reviewer of research proposals to the National Science Foundation (Atmos. Chem., Analytical Chem., and Major Research Instrumentation (MRI)), NASA Office of Earth Sciences, US Environmental Protection Agency; US DOD Strategic Environmental Research & Development Program, NOAA Office of Global Programs, DOE Atmospheric Science Program, Research Corporation, European Research Council, UK National Environmental Research Council, UK Engineering and Physical Sciences Research Council, UK Council for the Central Laboratories of the Research Councils (CCLRC) , Research Grants Council (RGC) of Hong Kong , Swiss Federal Institute of Technology-Zurich (ETHZ), Netherlands Organisation for Scientific Research (NWO), Spain's National Agency of Evaluation (ANEP), German Research Foundation (DFG), Austrian Science Fund (FWF), Canada Council for the Arts, US-Former Soviet Union Civilian Research and Development Foundation (CRDF), and American University of Beirut (AUB).

Invited Talks at Conferences and Meetings

- World Health Network Clean Air Expo, Oct. 2023
- Plenary Lecture, European Aerosol Conference, Malaga, Spain, Sep. 2023.
- QUADMARTS (Quantitative Detection of Molecular and Radical Trace Species) Workshop, Estes Park, CO, June 2023
- Plenary Lecture, 1st Argentinian Conference on Occupational Health and Safety in Hospitals and Health Centers, Jun. 2023
- The Union World Conference on Lung Health, Nov. 2022
- Telluride Workshop on Organic Aerosols, Jul. 2022
- Sustainability Research and Innovation Congress, Jun. 2022
- Congreso Chileno para la Seguridad del Paciente, Jun. 2022.
- US Transportation Research Board TCRP Insight Event - Air Quality in Transit Buses, May 2022
- American Physical Society (APS) Conference, Mar. 2022.
- IMEC Mini-Conference “The role of aerosols in disease transmission & diagnostics inspired by Covid-19”, Feb. 2022
- 2º Congreso Internacional de Pediatría de México, Nov. 2021
- TAT (Talking about Twitter) Granada Conference, Oct. 2021
- American Physical Society Four Corners Regional Meeting, Sep. 2021.
- Philippines WASH Conference, Jul. 2021.
- Keynote Talk, European Aerosol Conference, Manchester, UK, Sep. 2021.
- COLOSSAL European Project Meeting, Jun. 2021.
- 2º Congreso Nacional Multidisciplinar Covid19, Spain, Mar. 2021.
- National Multidisciplinary COVID-19 Congress of the Spanish Scientific Societies, Apr. 2021
- Aerosol Transmission of COVID-19 Symposium, Peking University, China, Nov. 2020.
- COVID-19 Action Summit of the New England Institute for Complex Systems, 2020
- Conferencia Anual de la Sociedad Argentina de Infectología, Argentina, 2020
- American Society of Mass Spectrometry (ASMS) Ion Trap Workshop, Jun. 2020.
- Observatorio COVID-19, Asociacion Nacional de Informadores de la Salud, Spain, 2020
- SURF-CIE Indoor Surface Chemistry Meeting, San Diego, CA, Jan. 2020
- PI Meeting of the US DOE Atmospheric Systems Research Program, Maryland, June 2019
- ToF-CIMS Users Meeting, Boulder, April 2019
- NSF Workshop on Volatile Chemical Products and their Impacts on Air Pollution, Boulder, Jan. 2019
- NSF Workshop on Secondary Organic Aerosol Modeling Intercomparison, Boulder, Jan. 2019
- US Environmental Protection Agency Meeting on Climate and Air Quality, RTP, NC, Nov. 2018
- NASA Atmospheric Tomography (ATom) Project Meeting, Boulder, CO, Nov. 2018
- Indoor Air Chemistry Conference, Boulder, CO, Oct. 2018
- International Aerosol Conference, St. Louis, MO, Sep. 2018.
- Telluride Workshop on Atmospheric Aerosols, Telluride, CO, July 2018.

Workshop on Chemistry on Indoor Surfaces, University of Michigan, May 2018.
- Long-term Biosphere-Atmosphere Chemical Flux Workshop, Univ. of California-Irvine, Nov. 2017.
- Workshop on Aerosol Hygroscopicity, North Carolina State Univ., RTP, NC, Oct. 2017.
- Keynote Speaker, 8th International GEOS-Chem Meeting, Harvard Univ., Cambridge, MA, May 2017.
- US Environmental Protection Agency Meeting on Climate and Air Quality, RTP, NC, April 2017.
- American Chemical Society (ACS) National Meeting, San Francisco, CA, April 2017.
- American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 2016.
- Telluride Workshop on Organic Aerosols, Telluride, CO, July 2016.
- Closing Remarks Speaker at the 2016 Faraday Discussion on Chemistry of the Urban Atmosphere, London, UK, Apr. 2016.
- Plenary Lecturer at the UK Aerosol Society 2016 Symposium on Recent Advances in Aerosol Measurement Technology, London, UK, Apr. 2016.
- Secondary Organic Aerosol Coordination & Planning Meeting, Sacramento, CA, Jan. 2016.
- International Aerosol Modeling Algorithms (IAMA) Conference, Davis, CA, Dec. 2015.
- 4th Annual Symposium on Advances in Mass Spectrometry for Atmospheric Science, Fort Collins, CO, June 2015.
- Southeast Atmosphere Studies Workshop : Intensive Observation Period Modeling to Improve Mechanistic Representation of Trends, Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, NJ, June 2015.
- American Chemical Society (ACS) National Meeting, Denver, CO, March 2015.
- American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 2014.
- Telluride Workshop on Organic Aerosols, Telluride, CO, August 2014.
- PNNL Environmental Molecular Sciences Lab Integration Meeting, Richland, WA, May 2014.
- American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 2011.
- American Chemical Society (ACS) National Meeting, Denver, CO, August 2011 (2 invited talks).
- Annual Meeting of the US DOE Atmospheric System Research and Atmospheric Radiation Measurement Programs, San Antonio, TX, March 2011
- Mini-Symposium on the Future of Organic Aerosol Research, Max Planck Institut fur Chemie, Mainz, Germany, January 2011
- US DOE Atmospheric System Research Program Meeting, Boulder, CO, October 2010.
- Telluride Workshop on "Organic Particles in the Atmosphere", Telluride, CO, August 2010.
- Annual Conference of the European Geophysical Union (EGU), Vienna, Austria, May 2010.
- Pittcon 2010 (61st Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy), Orlando, FL, March 2010.
- Keynote Talk, 2nd Special Symposium on Aerosol-Cloud-Climate Interactions, Annual Conference of the American Meteorological Society (AMS), Atlanta, GA, January 2010.
- Annual Conference of the European Geophysical Union (EGU), Vienna, Austria, April 2009.
- Second Workshop on Public Policy Implications of Recent Findings about Air Pollution, Guadalajara, Jalisco, Mexico, October 2008.
- Telluride Workshop on Organic Aerosols, Telluride, CO, August 2008.
- Workshop on Public Policy Implications of Recent Findings about Air Pollution, Leon, Guanajuato, Mexico, November 2007.
- US EPA Atmospheric Science Program Review Meeting, Research Triangle Park, NC, June 2007.
- American Chemical Society (ACS) National Meeting, Chicago, March 2007.
- Pittcon 2007 (58th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy), Chicago, IL, Feb. 2007.
- Workshop on the Formation and Growth of Atmospheric Aerosols, Minneapolis, MN, Sep. 2006.
- Telluride Workshop on Atmospheric Organic Aerosols, Telluride, CO, Aug. 2006.
- Annual Meeting of the American Society for Mass Spectrometry (ASMS), Seattle, WA, June 2006.
- Annual Meeting of the Atmospheric Chemistry Program of the US Dept. of Energy, Alexandria, VA, Nov. 2005.
- Plenary Lecture at the Annual Meeting of the American Association for Aerosol Research (AAAR), Austin, Texas, Oct. 2005.
- Plenary Talk at the Gordon Conference on Atmospheric Chemistry, Bozeman, Montana, Sep. 2005.

- US EPA Aerosol Source Apportionment Program Review Meeting, Research Triangle Park, NC, Sep. 2005.
- American Chemical Society (ACS) National Meeting, San Diego, March 2005.
- American Geophysical Union (AGU) Annual Meeting, San Francisco, Dec. 2004. (2 invited talks)
- Atmospheric Aerosol Chemistry Workshop, organized by the American Chemical Society (ACS), the Brazilian Chemical Society (SBQ), and the Brazilian Ministry of Science and Technology (MST), Rio de Janeiro, Brazil, Dec. 7, 2004.
- US EPA Supersites PI Meeting, Las Vegas, Feb. 26, 2004.
- Seventh International Workshop on Air Quality in Megacities, Mexico City, Jan. 2004.
- American Chemical Society (ACS) National Meeting, New Orleans, Mar 25, 2003.

Invited Seminars

- Webinar, Americas Group of International Global Atmospheric Chemistry (IGAC) organization, Apr. 2024
- Webinar, MIT Frontiers in Atmospheric Chemistry Seminar Series, Oct. 2023
- Webinar for the US EPA Indoor Air Program on Health Implications of Air Cleaning Technologies, Aug. 2023
- Webinar, Instituto Politécnico Nacional – Mexico, Apr. 2022
- Seminar for Escuela de Ingeneria y Arquitectura, Universidad de Zaragoza, Spain, Apr. 2022.
- Webinar for Mt. San Jacinto Collegue, California, Mar. 2022
- Webinar for Protect British Columbia (ProtectBC), Mar. 2022
- Webinar for Organismo Andino de Salud-Convenio Hipólito Unanue, Feb. 2022
- Two webinars on the science of COVID-19 transmission and how to protect ourselves, University of the Philippines, 2021 and 2022.
- Webinar on COVID Transmission for CIGRE in Indonesia, 2021.
- Webinar on Finding Solutions to Prevent COVID-19 and Occupational Disease, organized by Occupational Health Clinics for Ontario Workers Inc., Canada, 2021
- Webinar for Quimeltia (Spanish Association of Small Business in the Chemical Industry), Spain, 2021.
- Webinar on the use of CO2 meters to mitigate COVID-19 transmission for Aranet / SAFTehnika, Latvia, 2021
- Webinar for Sociedad Venezolana de Salud Ocupacional (SOVESO), Venezuela, 2021.
- Webinar for Asepeyo Mutua de Prevencion, Spain, 2021.
- Webinar from the World Health Network on COVID-19 prevention, 2021.
- Webinar in Spanish to discuss how to protect ourselves from COVID-19 transmission for the Colorado School of Public Health and other community and government organizations, 2021.
- Webinar on COVID-Proofing Communities in the Philippines, organized by Zero COVID Pilipinas, 2021.
- Webinar, Centro de Investigaciones Biológicas de Noroeste, Mexico, 2021.
- Webinar for the International Society of Indoor Quality and Climate (ISIAQ), 2021.
- Webinar "Aerosol Science and Engineering and Public Health: Focus on COVID-19" from the American Association of Environmental Engineering and Science Professors (AAEESP), 2021.
- Webinar, Spanish Society of Neumology and Toracic Surgery (SEPAR), 2021.
- Webinar, Centro de Graduados de Ingenieria of the Universidad de Buenos Aires, Argentina, 2021.
- Webinar, Pontificia Universidad Catolica de Chile, 2021.
- Webinar, Universidad de Castilla-La Mancha, Spain jointly with Universidad Nacional de Colombia, and other organizations, 2021.
- Webinar, Catedra de Prevencion de Riesgos, Universidad de Malaga, Spain, 2021.
- Webinar, Real Academia de Ingenieria, Madrid, Spain, 2021.
- Webinar, ATECYR (Asociación Técnica Española de Climatización y Refrigeración, 2021.
- Webinar, Dept. of Earth Sciences of Univ. of Puerto Rico & Museum of Science of Puerto Rico, 2021
- Seminar, Department of Earth and Atmospheric Sciences, University of Houston, 2021
- Seminar, International Global Atmospheric Chemistry (IGAC)-Latin America, 2020
- Webinar, UK Aerosol Society Webinar Series on COVID-19 transmission, 2020.

Seminar, Universidad de Los Andes, Colombia, 2020.
- Seminar, Instituto Cervantes de Chicago & Comunidad Españoles Científicos en USA, 2020
- Seminar, Open Innovation Madrid Norte Forum - Soluciones multidisciplinares frente al Coronavirus, Spain, 2020
- Seminar, Universidad de Granada, Spain, 2020
- Seminar, International Society of Air Quality and Climate (ISIAQ), 2020
- Seminar, American Physical Society, 2020
- Seminar, Cosmocaixa and Associacio Catalana de Comunicacio Cientifica, Spain, 2020
- Seminar, Asociacion de Colegios de Medicos de España, Spain, 2020
- Seminar, Dept. of Civil and Environmental Engineering, University of Southern California, 2020
- Seminar, Risk Center, Duke University, 2020
- Seminar, Fundacion IberCaja, Spain, 2020
- Ateneo de la Escuela de Ingenieria y Arquitectura (EINA), Universidad de Zaragoza, Spain, 2020
- Seminar, The Aerosol Society, United Kingdom, 2020
- Seminar, Societat Catalana de Salut Laboral, Spain, 2020
- Seminar, Asociación Técnica Española de Climatización y Refrigeración (ATECYR), Spain, 2020
- Seminar, Facultad de Exactas, Universidad de Buenos Aires, Argentina, 2020
- Seminar, Catedra de Prevencion de Riesgos, Universidad de Malaga, Spain, 2020
- Seminar, College of Arts & Sciences, University of Colorado-Boulder, 2020
- Seminar and Panel Discussion, Centro de Ciencia del Clima y la Resiliencia (CR2), Universidad Catolica de Valparaiso, Chile, Aug. 2020
- Seminar, Instituto de Investigacion Ambiental y Estudios de Agua, CSIC, Barcelona, Spain, Dec. 2019
- Seminar, Dept. of Earth System Science, UC-Irvine, Irvine, CA, Jun. 2019
- Seminar, Dept. of Atmospheric and Oceanic Sciences, UCLA, Los Angeles, CA, Jan. 2019
- Seminar, Department of Energy, Environmental and Chemical Engineering, Washington University, St. Louis, Oct. 2017
- Atmospheric Chemistry Seminar, Massachusetts Institute of Technology (MIT), Cambridge, MA, May 2017
- Donora Lecture, Carnegie Mellon University, Pittsburgh, PA, Feb. 2017
- Atmospheric Chemistry Seminar, Harvard University, Cambridge, MA, Nov. 2015
- Technology Showcase Seminar, NOAA Chemical Sciences Division, Boulder, CO, Oct. 2015
- Seminar, Department of Chemistry & Biochemistry, University of Colorado-Boulder, Oct. 2013.
- Seminar, Chemical Processes Group, National Center for Atmospheric Research (NCAR), Boulder, CO, Oct. 2013.
- Seminar, Department of Environmental Engineering, University of Colorado-Boulder, Oct. 2013.
- Seminar, Department of Chemical Engineering, Columbia University, New York, NY, Apr. 2013.
- Seminar, Department of Chemistry, Texas Tech University, Lubbock, TX, Nov. 2012.
- Seminar, California Air Resources Board Research Division, Sacramento, CA, Jul. 2012.
- Seminar, Laboratoire Interuniversitaire des Systèmes Atmosphériques, Université Paris-Est Créteil Val-de-Marne (UPEC), France, Jan. 2012.
- Seminar, Laboratory for Atmospheric Chemistry, Paul Scherrer Institut, Villigen, Switzerland, Jan. 2012.
- Seminar, Atmospheric Science Center, University of California-Berkeley, Berkeley, CA, Nov. 2011.
- "Frontiers in Geoscience" Invited Lecturer, Los Alamos National Laboratory, NM, Jun. 2011.
- Seminar, Mechanical Engineering Air Quality Collaboratory, University of Colorado-Boulder, CO, Apr. 2011.
- Seminar, Ball Aerospace and Technologies Corp., Boulder, CO, Oct. 15, 2010.
- Seminar, Marine and Atmospheric Chemistry Division, RSMAS, University of Miami, FL, Apr. 15, 2010.
- School-wide Seminar, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, FL, Apr. 14, 2010.
- Seminar, Dept. of Chemistry and Biochemistry, Arizona State University, Tempe, AZ, Feb. 12, 2010.
- Seminar, Centre de Recerca en Epidemiologia Ambiental (CREAL), Barcelona, Spain, May 22, 2009.
- Seminar, Instituto de Diagnostico Ambiental y Estudios del Agua (IDAEA-CSIC), Barcelona, Spain, March 12, 2009.
- Dept. Seminar, Env. Science and Engineering, California Institute of Technology (Caltech), May 21,

2008.
- Chemical Sciences Division Seminar, National Oceanic and Atmospheric Administration (NOAA), Boulder, Dec. 5, 2007.
- Dept. Seminar, Chemistry, University of Wisconsin-Madison, Nov. 1, 2007.
- Advanced Study Program Seminar, National Center for Atmospheric Research (NCAR), Oct. 17, 2007.
- Dept. Seminar, Chemistry and Biochemistry, University of Colorado-Boulder, Oct. 15., 2007.
- Aerosol Group Seminar, Instituto de Ciencias de la Tierra "Jaume Almera" (CSIC), Barcelona, Spain, June 14, 2007
- Physical & Analytical Chemistry Seminar, Dept. Chemistry and Biochemistry, University of Delaware, May 7, 2007.
- Dept. Seminar, Chemistry & Biochemistry, University of Denver, April 12, 2007
- Atmopsheric Sciences Seminar, Dept. Engineering and Applied Science, Harvard University, Apr. 6, 2007.
- Dept. Seminar, Chemistry, University of California-Irvine, Mar. 20, 2007.
- Atmospheric Sciences Seminar, Brookhaven National Laboratory, Upton, NY, Mar. 5, 2007.
- Dept. Seminar, Atmospheric and Oceanic Sciences, University of Colorado-Boulder, Oct. 9, 2006.
- Dept. Seminar, Atmospheric Sciences, University of Washington-Seattle, May 3, 2006.
- Dept. Seminar, Earth Atmospheric and Planetary Sciences, Massachusetts Institute of Technology (MIT), Dec. 1, 2004.
- Atmospheric Chemistry Seminar, National Center for Atmospheric Research (NCAR), Boulder, Nov. 29, 2004.
- Nanotechnology IGERT Seminar, University of Minnesota - Twin Cities, Nov. 5, 2004.
- Company Seminar, TSI Inc., St. Paul, Minnesota, Nov. 5, 2004.
- Dept. Seminar, Civil and Environmental Engineering, University of California-Berkeley, Oct. 22, 2004.
- Dept. Seminar, Chemical Engineering, University of Colorado-Boulder, Sep. 14, 2004.
- Aeronomy Lab Seminar, National Oceanic and Atmospheric Administration (NOAA), Boulder, Dec. 3, 2003.
- NCAR Aerosol Program (NAP) Seminar, National Center for Atmospheric Research (NCAR), Oct. 24., 2002.
- Atmospheric Chemistry Seminar, Jet Propulsion Laboratory (JPL), April 12, 2002.
- Dept. Seminar, Atmospheric Sciences, University of California - Los Angeles (UCLA), February 7, 2002.
- Atmospheric Chemistry Seminar, California Institute of Technology (Caltech), Pasadena, California, January 31, 2002.
- Dept. Seminar, Earth Atmospheric and Planetary Sciences, Massachusetts Institute of Technology (MIT), Jan. 28, 2002.
- Combustion and Fluids Seminar, Dept. Mechanical Engineering, Massachusetts Institute of Technology (MIT), Jan. 25, 2002.
- Company Seminar, Aerodyne Research Inc., Billerica, Massachusetts, Jan. 24, 2002.
- ICREA Seminar, Universitat Politecnica de Catalunya, Barcelona, Spain, Dec. 21, 2001
- Dept. Seminar, Chemistry and Biochemistry, University of Colorado - Boulder, Dec. 6, 2001.
- Dept. Seminar, Atmospheric Sciences, Colorado State University - Fort Collins, Dec. 5, 2001.
- Dept. Seminar, Chemistry, University of California - Riverside, Nov. 29, 2001.
- Aerosol Group Seminar, University of California - San Diego (UCSD), Nov. 28, 2001
- Dept. Seminar, Chemistry, University of California - Irvine, Nov. 16, 2001.
- Dept. Seminar, Mechanical Engineering, Universidad Carlos III, Madrid, Spain, Dec. 18, 2000
- Seminar, Laboratorio de Investigacion en Tecnologias de Combustion (LITEC, CSIC), Zaragoza, Spain, June 22, 2000
- Seminar, Centro de Estudios Ambientales del Mediterraneo (CEAM), Valencia, Spain, June 20, 2000
- Environment Dept. Seminar, Centro de Investigaciones Energeticas, Medioambientales, y Tecnologicas (CIEMAT), Madrid, Spain, June 15, 1999

Professional Association Memberships

American Association for Aerosol Research (AAAR)
- American Chemical Society (ACS)
- American Geophysical Union (AGU)
- American Society for Mass Spectrometry (ASMS)
- European Geosciences Union (EGU)

Languages

- Fluent in English and French
- Native Spanish speaker
- Basic Italian

Journal Publications Currently Undergoing Peer-Review

527. 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 two real-time mass spectrometers using high performance liquid chromatography and positive matrix factorization. *Aerosol Research Discuss.*, [preprint], https://doi.org/10.5194/ar-2023-21, in review, 2024. Paper

526. 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.*, submitted, Dec. 2023.

525. 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. Discuss.*, [preprint], https://doi.org/10.5194/amt-2023-230, in review, 2023. Paper

524. B. Sapper, D. Henze, M. Canagaratna, H. Stark, **J.L. Jimenez**. Positive Matrix Factorization of Large Aerosol Mass Spectrometry Datasets Using Error-Weighted Randomized Hierarchical Alternating Least Squares. *Geosci. Model Dev.*, revised, Jun 2023.
523. M. Korhonen, A. Laitinen, G. Ersavas Isitman, **J.L. Jimenez**, V. Vuorinen. A GPU-accelerated computational fluid dynamics solver for assessing shear-driven indoor airflow and virus transmission by scale-resolved simulations. *Comp. Phys. Comm.*, Submitted, Dec. 2022.

Publications In Press

522. 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.*, in press, 2024.

521. 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. *EGUsphere*, [preprint], https://doi.org/10.5194/egusphere-2023-1241, 2023. Paper

520. 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. *Geophys. Rev. Lett.*, in press, 2024. Preprint

519. Morawska et al. Making indoor air quality standards the reality. in press, 2024.

518. P.N. deSouza, S. Anenberg, N. Fann, L.M. McKenzie, E. Chan, A. Roy, **J.L. Jimenez**, W. Raich, H. Roman, P.L. Kinney. Evaluating the Sensitivity of Mortality Attributable to Pollution to Modeling Choices: A Case Study for Colorado. https://doi.org/10.1016/j.envint.2024.108416, In press 2023. Paper

Peer-Reviewed Journal Publications *(Citation Index h = 105; Citations = 40,469; Researcher ID Link & Google Scholar)*

517. H. Bian, M. Chin, P.R. Colarco, E.C. Apel, D.R. Blake, K. Froyd, R.S. Hornbrook, **J.L. Jimenez**, P. Campuzano Jost, M. Lawler, M. Liu, M. Tronstad Lund, H. Matsui, B.A. Nault, J.E. Penner, A.W. Rollins, G. Schill, R.B. Skeie, H. Wang, L. Xu, K. Zhang, J. Zhu. Observationally constrained analysis of sulfur cycle in the marine atmosphere with NASA ATom measurements and AeroCom model simulations. *Atmos. Chem. Phys.*, 24, 1717–1741 https://doi.org/10.5194/acp-24-1717-2024, 2024. Paper

516. K. Siemens, D. Pagonis, H. Guo, M.K. Schueneman, J.E. Dibb, G. Diskin, P. Campuzano-Jost, **J.L. Jimenez**, A. Laskin. Probing Atmospheric Aerosol by Multi-modal Mass Spectrometry Techniques: Revealing Aging Characteristics of its Molecular Components. *Environ. Sci. Technol.*, 7, 12, 2498–2510, https://doi.org/10.1021/acsearthspacechem.3c00228, 2023. Paper

515. 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. Paper

514. 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. Paper

513. 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, TI. 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. Paper

512. D.S. Jo, B.A. Nault, S. Tilmes, A. Gettelman, C. McCluskey, A. Hodzic, D. Henze, M.O. Nawaz, K.M. Fung, **J.L. Jimenez**. Global Health and Climate Effects of Organic Aerosols from Different Sources. *Environ. Sci. Technol.*, 57, 37, 13793–13807, https://doi.org/10.1021/acs.est.3c02823, 2023. Paper

511. 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 Agricultural and Prescribed Fires in the Eastern US during FIREX-AQ. *J. Geophys. Res. -Atm.*, 128, e2023JD039309, https://doi.org/10.1029/2023JD039309, 2023. Paper

510. 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. Paper

509. K.J. Nihill, M. Coggon, C. Lim, A. Koss, B. Yuan, J.E. Krechmer, K. Sekimoto, **J.L. Jimenez**, J. de Gouw, C. Cappa, C. Heald, C. Warneke, J. Kroll. Evolution of organic carbon in the laboratory oxidation of biomass-burning emissions. *Atmos. Chem. Phys.*, 23, 7887–7899, https://doi.org/10.5194/acp-23-7887-2023, 2023. Paper

508. 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. Paper

507. L. Morawska, W. Bahnfleth, P.M. Bluyssen, A. Boerstra, G. Buonanno, S.J. Dancer, A. Floto, F. Franchimon, C. Haworth, J. Hogeling, C. Isaxon, **J.L. Jimenez**, J. Kurnitski, Y. Li, M. Loomans, G. Marks, L.C. Marr, L. Mazzarella, A.K. Melikov, S. Miller, D.K. Milton, W. Nazaroff, P.V. Nielsen, C. Noakes, J. Peccia, X. Querol, C. Sekhar, O. Seppänen, S.-i. Tanabe, R. Tellier, K. Wai Tham, P. Wargocki, A. Wierzbicka. COVID-19 and Airborne Transmission: Science Rejected, Lives Lost. Can Society Do Better? *Clinical Infectious Diseases*, 76, 1854-1859, https://doi.org/10.1093/cid/ciad068, 2023. Paper

506. O. Jenks, M. DeVault, A. Ziola, M. Morris, M. Schueneman, H.A. Stark, **J.L. Jimenez**, P.J. Ziemann, J.A. de Gouw. Investigation of the Gas-Phase Products from the NO_3 Radical Oxidation of Δ-3-Carene. *ACS Earth and Space Chemistry*, 7, 5, 1097–1106, https://doi.org/10.1021/acsearthspacechem.3c00020, 2023. Paper

505. Y.-C. Chan, L. Jaeglé, P. Campuzano-Jost, D.C. Catling, J. Cole-Dai, V.I. Furdui, W.A. Jackson, **J.L. Jimenez**, D. Kim, A.E. Wedum, B. Alexander. Stratospheric Gas-Phase Production Alone Cannot Explain Observations of Atmospheric Perchlorate on Earth. *Geophys. Rev. Lett.*, 50, e2023GL102745, https://doi.org/10.1029/2023GL102745, 2023. Paper

504. H. Zhu, R. Martin, B. Croft, S. Zhai, C. Li, L. Bindle, J. Pierce, R. Chang, B. Anderson, L. Ziemba, Jo. Hair, R. Ferrare, C. Hostetler, I. Singh, D. Chatterjee, **J.L. Jimenez**, P. Campuzano-Jost, B.A.

Nault, J.E. Dibb, J. Schwarz, A. Weinheimer. Parameterization of Size of Organic and Secondary Inorganic Aerosol for Efficient Representation of Global Aerosol Optical Properties. Parameterization of size of organic and secondary inorganic aerosol for efficient representation of global aerosol optical properties. *Atmos. Chem. Phys.*, 23, 5023–5042, https://doi.org/10.5194/acp-23-5023-2023, 2023. Paper

503. 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. Martin, A.H. Goldstein. Chemical Signatures of Seasonally Unique Anthropogenic Influences on Organic Aerosol Composition in the Central Amazon. *Environ. Sci. Technol.*, 57, 15, 6263–6272, https://doi.org/10.1021/acs.est.2c07260, 2023. Paper

502. J.F. Brewer, D.J. Jacob, S.H. Jathar, Y. He, A. Akherati, S. Zhai, D.S. Jo, A. Hodzic, B.A. Nault, P. Campuzano-Jost, **J.L. Jimenez**, R.J. Park, Y.J. Oak, H. Liao. A scheme for representing aromatic secondary organic aerosols in chemical transport models: application to source attribution of organic aerosols over South Korea during the KORUS-AQ campaign. *J. Geophys. Res. Atmos.*, 128, e2022JD037257, https://doi.org/10.1029/2022JD037257, 2023. Paper

501. J.M. Katich, E.C. Apel, I. Bourgeois, C. Brock, T.P. Bui, P. Campuzano-Jost, R. Commane, B. Daube, M. Dollner, M. Fromm, K.D. Froyd, A.J. Hills, R.S. Hornbrook, **J.L. Jimenez**, A. Kupc, K.D. Lamb, K. McKain, F. Moore, D.M. Murphy, B.A. Nault, J. Peisch, A.E. Perring, D.A. Peterson, E.A. Ray, K.H. Rosenlof, T. Ryerson, G.P. Schill, J.C. Schroder, B. Weinzier, C. Thompson, C.J. Williamson, S.J. Wofsy, P. Yu, J.P. Schwarz. Pyrocumulonimbus affect average stratospheric aerosol composition. *Science*, 379, 6634, 815-820 DOI: 10.1126/science.add3101, 2023. Paper

500. L. Tomsche, F. Piel, T. Mikoviny, C.J. Nielsen, H. Guo, P. Campuzano-Jost, B.A. Nault, M.K. Schueneman, **J.L. Jimenez**, H. Halliday, G.S. Diskin, J.P. DiGangi, J.B. Nowak, E.B. Wiggins, E. Gargulinski, A.J. Soja, A. Wisthaler. Measurement report: Emission factors of NH3 and NHx for wildfires and agricultural fires in the United States, *Atmos. Chem. Phys.* 23, 2331–2343, https://doi.org/10.5194/acp-23-2331-2023, 2023. Paper

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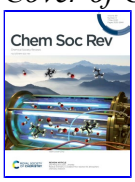

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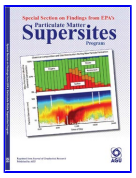

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