

CURRICULUM VITAE

ARMIN SOROOSHIAN

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CHRONOLOGY OF EDUCATION

California Institute of Technology	Chemical Engineering	Ph.D. 2008
California Institute of Technology	Chemical Engineering	M.S. 2005
Univ. of Arizona (Summa Cum Laude, Honors)	Chemical Engineering	B.S. 2003

CHRONOLOGY OF EMPLOYMENT

Professor, University Distinguished Scholar, da Vinci Fellow, Department of Chemical and Environmental Engineering (Courtesy Appointments in Hydrology and Atmospheric Sciences, College of Optical Sciences, College of Public Health), University of Arizona (2018-present)

Associate Professor and University Distinguished Scholar, Department of Chemical and Environmental Engineering (Courtesy Appointments in Hydrology and Atmospheric Sciences, and the College of Public Health), University of Arizona (2015-2018)

Assistant Professor, Department of Chemical and Environmental Engineering (Courtesy Appointments in Atmospheric Sciences and Public Health), University of Arizona (2009-2015)

Postdoctoral Scholar, Cooperative Institute for Research in the Atmosphere (CIRA), Colorado State University and National Oceanic and Atmospheric Administration (2008–2009)

Undergraduate Researcher, Department of Chemical and Environmental Engineering, University of Arizona (1999-2003)

Internship, Intel Corporation. Santa Clara, CA (Summer 2003)

Internship, Intel Corporation. Chandler, AZ (Summer 2002)

Internship, Hitachi Chemical Corporation. Ibaraki, Japan (Summer 2001)

HONORS

- AGU Joanne Simpson Medal (2023)
- AGU Fellow (2023)
- NASA Group Achievement Award for ACTIVATE Mission (2023)
- Ambassador in Chemical Sciences in France, French National Centre for Scientific Research (CNRS) (2023)
- First recipient of College of Engineering's Doctoral Dissertation Advisor Award (2022)
- Selected as Participant of the NSF-supported Engineering Research Visioning Alliance (ERVA) (2021-2022)
- NASA Group Achievement Award for CAMP²Ex Mission (2020)
- AGU Atmospheric Sciences Ascent Award (2019)
- AGU Research Spotlight: Mardi et al., *Journal of Geophysical Research-Atmospheres* (2018)
- Academic Champion (University of Arizona Provost's Office, 2018)
- da Vinci Circle Fellowship (University of Arizona, College of Engineering, 2018)
- Editors' Citation for Excellence in Refereeing for *Journal of Geophysical Research-Atmospheres* (2017)
- Spirit of Inquiry Alumnus Award and Honor's College Commencement Keynote Speaker (University of Arizona, Honor's College, 2017)

- Spirit of ASEMS Award (University of Arizona, Arizona's Science, Engineering, and Math Scholars (ASEMS) program, 2017)
- Faculty Fellows Program (University of Arizona, 2016-present)
- Distinguished Scholar Award (University of Arizona, 2016)
- Editors' Citation for Excellence in Refereeing for *Journal of Geophysical Research-Atmospheres* (2016)
- Invitee and speaker: National Academy of Science's Symposium on Climate Change (Nice, France; 2015)
- Five Star Faculty Award Finalist (1 of 5) awarded by the University of Arizona Honors College (2014-2015)
- Award for Excellence at the Student Interface (2010-2011, 2012-2013, 2014-2015, 2015-2016, 2016-2017, 2017-2018; Dept. of Chemical and Environmental Engineering)
- Co-Organizer and Speaker: 2015 US-Iran Symposium on Climate Change: Impacts and Mitigation, National Academy of Sciences, Beckman Center, Irvine California (March 2015)
- NASA Group Achievement Award for SEAC⁴RS Mission (2015)
- 2014 NASA Earth and Space Science Fellowship (Student: Taylor Shingler)
- Invitee: National Academy of Science's Symposium on Sustainable, Resilient Cities (Irvine, CA; 2014)
- Invitee: 2013 National Academy of Engineering Frontiers of Engineering Education Symposium (Irvine, CA; 2013)
- Invitee: National Academy of Science's US-Iran Symposium on Air Pollution in Megacities (Irvine, CA; 2013)
- Recognition for Reviewing Excellence for *Atmospheric Environment* (2012-2013)
- Editors' Citation for Excellence in Refereeing for *Journal of Geophysical Research-Atmospheres* (2012)
- College of Engineering Education Faculty Fellow (2012-2014)
- Invitee and Co-Chair: National Academy of Engineering's 2012 U.S. Frontiers of Engineering Symposium (Warren, Michigan; 2012)
- Invitee: National Academy of Engineering's 2011 U.S. Frontiers of Engineering Symposium (Mountain View, California; 2011)
- Admitted to and attended the 2011 ASEE National Effective Teaching Institute (Vancouver, Canada)
- AGU Research Spotlight: Sorooshian et al., *J. Geophys. Res.* (2010)
- Office of Naval Research Young Investigator Program Award (2010)
- Invitee to 8th Annual NCAR Early Career Scientist Assembly (ECSA) Junior Faculty Forum (2010)
- ACCESS invitee (Atmospheric Chemistry Colloquium for Emerging Senior Scientists; 2009)
- Outstanding Poster Presentation (Boulder Laboratories Postdoctoral Poster Symposium, 2009)
- Cooperative Institute for Research in the Atmosphere (CIRA) Postdoctoral Fellowship (2008-2009, Colorado State University)
- American Meteorological Society Public Policy Colloquium Fellow (2008)
- Outstanding Achievement in Doctoral Education Award and the Golestani Family Award – (Association of Professors and Scholars of Iranian Heritage, 2008)

- Cornelius J. Pings Graduate Fellowship (Betty and Gordon Moore Foundation, 2003-2007, California Institute of Technology)
- Outstanding Senior - Department of Chemical & Environmental Engineering (U. of Arizona, 2003)
- Outstanding Senior - College of Engineering and Mines (U. of Arizona, 2003)
- Second place – American Institute for Chemical Engineers (AIChE) National Conference Student Poster Contest (Indianapolis, Indiana), 2002
- Air & Waste Management Association Best Student Paper Award (Phoenix, Arizona), 2001
- Second place – American Institute for Chemical Engineers (AIChE) National Conference Student Poster Contest (Reno, Nevada), 2001

SERVICE POSITIONS HELD

- Editorial Board: *Atmospheric Chemistry and Physics* (2015-present)
- American Association for Aerosol Research (AAAR)
 - Awards Committee (2020-present)
 - Awards Committee Chair (2021-2022)
 - Student Chapter Advisor (2022-present)
- Board of Directors (2017-2021), Division Board Member (2011-present); AIChE Environmental Division
- Scientific Committee for Oceanographic Aircraft Research (SCOAR as part of the University-National Oceanographic Laboratory System (UNOLS) (2021-2024)
- Reviewer: National Academies' Report on the Future Use of NASA Airborne Platforms to Advance Earth Science Priorities (2021)
- Science Advisory Group for NASA's Aerosols and Cloud-Convection Precipitation (A-CCP) Study (2019-present)

REFEREED JOURNAL PUBLICATIONS

250. Namdari, S., Ajayi, T., Choi, Y., Crosbie, E. C., DiGangi, J. P., Diskin, G. S., Kirschler, S., Liu, H., Nowak, J. B., Shook, M. A., Soloff, C., Thornhill, K. L., Voigt, C., Winstead, E. L., Zhang, B., Ziemba, L. D., and Sorooshian, A.: A comprehensive analysis of new particle formation across the northwest Atlantic: Analysis of ACTIVATE airborne data, *Atmospheric Environment*, 338, 120831, <https://doi.org/10.1016/j.atmosenv.2024.120831>, 2024.
249. Greenslade, M., Guo, Y., Betito, G., Mirrezaei, M. A., Roychoudhury, C., Arellano, A. F., and Sorooshian, A.: On ozone's weekly cycle for different seasons in Arizona, *Atmospheric Environment*, 334, 120703, <https://doi.org/10.1016/j.atmosenv.2024.120703>, 2024.
248. Zeider, K., Betito, G., Bucholtz, A., Xian, P., Walker, A., and Sorooshian, A.: Differences in aerosol and cloud properties along the central California coast when winds change from northerly to southerly, *Atmos. Chem. Phys.*, 24, 9059-9083, 10.5194/acp-24-9059-2024, 2024.
247. Ajayi, T., Choi, Y., Crosbie, E. C., DiGangi, J. P., Diskin, G. S., Fenn, M. A., Ferrare, R. A., Hair, J. W., Hilario, M. R. A., Hostetler, C. A., Kirschler, S., Moore, R. H., Shingler, T. J., Shook, M. A., Soloff, C., Thornhill, K. L., Voigt, C., Winstead, E. L., Ziemba, L. D., and Sorooshian, A.: Vertical variability of aerosol properties and trace gases over a remote marine region: a case study over Bermuda, *Atmos. Chem. Phys.*, 24, 9197-9218, 10.5194/acp-24-9197-2024, 2024.
246. Tang, S., Wang, H., Li, X. Y., Chen, J., Sorooshian, A., Zeng, X., Crosbie, E., Thornhill, K. L., Ziemba, L. D., and Voigt, C.: Understanding aerosol–cloud interactions using a single-column

- model for a cold-air outbreak case during the ACTIVATE campaign, *Atmos. Chem. Phys.*, 24, 10073-10092, 10.5194/acp-24-10073-2024, 2024.
245. Siu, L. W., Zeng, X., Sorooshian, A., Cairns, B., Ferrare, R. A., Hair, J. W., Hostetler, C. A., Painemal, D., and Schlosser, J. S.: Summarizing multiple aspects of triple collocation analysis in a single diagram, *Frontiers in Remote Sensing*, 5, 10.3389/frsen.2024.1395442, 2024.246. Li, X.-Y., Wang, H., Christensen, M. W., Chen, J., Tang, S., Kirschler, S., Crosbie, E., Ziemba, L. D., Painemal, D., Corral, A. F., McCauley, K. A., Dmitrovic, S., Sorooshian, A., Fenn, M., Schlosser, J. S., Stamnes, S., Hair, J. W., Cairns, B., Moore, R., Ferrare, R. A., Shook, M. A., Choi, Y., Diskin, G. S., DiGangi, J., Nowak, J. B., Robinson, C., Shingler, T. J., Lee Thornhill, K., and Voigt, C.: Process Modeling of Aerosol-Cloud Interaction in Summertime Precipitating Shallow Cumulus Over the Western North Atlantic, *Journal of Geophysical Research: Atmospheres*, 129, e2023JD039489, <https://doi.org/10.1029/2023JD039489>, 2024.
244. Xu, Y., Mitchell, B., Delgado, R., Ouyed, A., Crosbie, E., Cutler, L., Fenn, M., Ferrare, R., Hair, J., Hostetler, C., Kirschler, S., Kleb, M., Nehrir, A., Painemal, D., Robinson, C. E., Scarino, A. J., Shingler, T., Shook, M. A., Sorooshian, A., Thornhill, K. L., Voigt, C., Wang, H., Zeng, X., and Zuidema, P.: Boundary Layer Structures Over the Northwest Atlantic Derived From Airborne High Spectral Resolution Lidar and Dropsonde Measurements During the ACTIVATE Campaign, *Journal of Geophysical Research: Atmospheres*, 129, e2023JD039878, <https://doi.org/10.1029/2023JD039878>, 2024.
243. Mirrezaei, M. A., Arellano, A., Guo, Y., Roychoudhury, C., and Sorooshian, A.: Ozone production over arid regions: insights into meteorological and chemical drivers, *Environmental Research Communications*, 6, 051009, 10.1088/2515-7620/ad484c, 2024.
242. Dmitrovic, S., Hair, J. W., Collister, B. L., Crosbie, E., Fenn, M. A., Ferrare, R. A., Harper, D. B., Hostetler, C. A., Hu, Y., Reagan, J. A., Robinson, C. E., Seaman, S. T., Shingler, T. J., Thornhill, K. L., Vömel, H., Zeng, X., and Sorooshian, A.: High Spectral Resolution Lidar – generation 2 (HSRL-2) retrievals of ocean surface wind speed: methodology and evaluation, *Atmos. Meas. Tech.*, 17, 3515-3532, 10.5194/amt-17-3515-2024, 2024.
241. Guo, Y., Roychoudhury, C., Mirrezaei, M. A., Kumar, R., Sorooshian, A., and Arellano, A. F.: Investigating ground-level ozone pollution in semi-arid and arid regions of Arizona using WRF-Chem v4.4 modeling, *Geosci. Model Dev.*, 17, 4331-4353, 10.5194/gmd-17-4331-2024, 2024.
240. Crosbie, E., Ziemba, L. D., Shook, M. A., Shingler, T., Hair, J. W., Sorooshian, A., Ferrare, R. A., Cairns, B., Choi, Y., DiGangi, J., Diskin, G. S., Hostetler, C., Kirschler, S., Moore, R. H., Painemal, D., Robinson, C., Seaman, S. T., Thornhill, K. L., Voigt, C., and Winstead, E.: Measurement report: Cloud and environmental properties associated with aggregated shallow marine cumulus and cumulus congestus, *Atmos. Chem. Phys.*, 24, 6123-6152, 10.5194/acp-24-6123-2024, 2024.
239. Rashedi, S., Sorooshian, A., Tajbar, S., and bobakran, O. S.: On the characteristics and long-term trend of total cloud cover in Iran, *Acta Geophysica*, 10.1007/s11600-024-01351-1, 2024.
238. Siu, L. W., Schlosser, J. S., Painemal, D., Cairns, B., Fenn, M. A., Ferrare, R. A., Hair, J. W., Hostetler, C. A., Li, L., Kleb, M. M., Scarino, A. J., Shingler, T. J., Sorooshian, A., Stamnes, S. A., and Zeng, X.: Retrievals of aerosol optical depth over the western North Atlantic Ocean during ACTIVATE, *Atmos. Meas. Tech.*, 17, 2739-2759, 10.5194/amt-17-2739-2024, 2024.
237. Razavi-Termeh, S. V., Sadeghi-Niaraki, A., Sorooshian, A., Abuhmed, T., and Choi, S.-M.: Spatial mapping of land susceptibility to dust emissions using optimization of attentive Interpretable Tabular Learning (TabNet) model, *Journal of Environmental Management*, 358, 120682, <https://doi.org/10.1016/j.jenvman.2024.120682>, 2024.
236. Betito, G., Arellano, A., and Sorooshian, A.: Influence of Transboundary Pollution on the Variability of Surface Ozone Concentrations in the Desert Southwest of the U.S.: Case Study for Arizona, *Atmosphere*, 15, 401, doi:10.3390/atmos15040401, 2024.
235. Feingold, G., Ghate, V. P., Russell, L. M., Blossey, P., Cantrell, W., Christensen, M. W., Diamond, M. S., Gettelman, A., Glassmeier, F., Gryspeerdt, E., Haywood, J., Hoffmann, F.,

- Kaul, C. M., Lebsock, M., McComiskey, A. C., McCoy, D. T., Ming, Y., Mülmenstädt, J., Possner, A., Prabhakaran, P., Quinn, P. K., Schmidt, K. S., Shaw, R. A., Singer, C. E., Sorooshian, A., Toll, V., Wan, J. S., Wood, R., Yang, F., Zhang, J., and Zheng, X.: Physical science research needed to evaluate the viability and risks of marine cloud brightening, *Science Advances*, 10, eadi8594, doi:10.1126/sciadv.adi8594, 2024.
234. Baghani, A. N., Dana, E., Sorooshian, A., Jafari, A. J., Aalamolhoda, A. A., Sheikhi, R., Jajarmi, F., Shahsavani, A., Delikhoon, M., Ebrahimzade, G., Ashournejad, Q., Mansoorian, H. J., and Kermani, M.: Sensitivity of BTEX pollution and health effects to traffic restrictions: A case study in an urban center of Tehran, Iran, *Sustainable Cities and Society*, 105281, <https://doi.org/10.1016/j.scs.2024.105281>, 2024.
233. Edwards, E. L., Choi, Y., Crosbie, E. C., DiGangi, J. P., Diskin, G. S., Robinson, C. E., Shook, M. A., Winstead, E. L., Ziemba, L. D., and Sorooshian, A.: Sea salt reactivity over the northwest Atlantic: an in-depth look using the airborne ACTIVATE dataset, *Atmos. Chem. Phys.*, 24, 3349-3378, 10.5194/acp-24-3349-2024, 2024.
232. Schlosser, J. S., Bennett, R., Cairns, B., Chen, G., Collister, B. L., Hair, J. W., Jones, M., Shook, M. A., Sorooshian, A., Thornhill, K. L., Ziemba, L. D., and Stamnes, S.: Maximizing the Volume of Collocated Data from Two Coordinated Suborbital Platforms, *Journal of Atmospheric and Oceanic Technology*, 41, 189-201, <https://doi.org/10.1175/JTECH-D-23-0001.1>, 2024.
231. Sorooshian, A., Arellano, A. F., Fraser, M. P., Herckes, P., Betito, G., Betterton, E. A., Braun, R. A., Guo, Y., Mirrezaei, M. A., and Roychoudhury, C.: Ozone in the Desert Southwest of the United States: A Synthesis of Past Work and Steps Ahead, *ACS ES&T Air*, 10.1021/acsestair.3c00033, 2024.
230. Zeb, B., Ditta, A., Alam, K., Sorooshian, A., Din, B. U., Iqbal, R., Habib ur Rahman, M., Raza, A., Alwahibi, M. S., and Elshikh, M. S.: Wintertime investigation of PM10 concentrations, sources, and relationship with different meteorological parameters, *Scientific Reports*, 14, 154, 10.1038/s41598-023-49714-w, 2024.
229. Hilario, M. R. A., Arellano, A. F., Behrangi, A., Crosbie, E. C., DiGangi, J. P., Diskin, G. S., Shook, M. A., Ziemba, L. D., and Sorooshian, A.: Identifying Better Indicators of Aerosol Wet Scavenging During Long-Range Transport, *EGUsphere*, 2023, 1-26, 10.5194/egusphere-2023-726, 2023.
228. Vömel, H., Sorooshian, A., Robinson, C., Shingler, T. J., Thornhill, K. L., and Ziemba, L. D.: Dropsonde observations during the Aerosol Cloud meTeorology Interactions oVer the western ATlantic Experiment, *Scientific Data*, 10, 753, 10.1038/s41597-023-02647-5, 2023.
227. Jafari, K., Rezvani Ghalhari, M., Hayati, R., Baboli, Z., Zeider, K., Ramírez-Andreotta, M. D., Sorooshian, A., De Marco, A., Namdar-Khojasteh, D., Goudarzi, M., Ghanbari Ghoskhal, M., and Goudarzi, G.: Using date palm (*Phoenix dactylifera* L.) as bio-monitors of environmental quality for exposure assessment and pollution source tracking, *Atmospheric Environment*, 313, 120055, <https://doi.org/10.1016/j.atmosenv.2023.120055>, 2023.
226. Zeider, K., Manjón, I., Betterton, E. A., Sáez, A. E., Sorooshian, A., and Ramírez-Andreotta, M. D.: Backyard aerosol pollution monitors: foliar surfaces, dust enrichment, and factors influencing foliar retention, *Environ Monit Assess*, 195, 1200, 10.1007/s10661-023-11752-2, 2023.
225. Miri, A., Shirmohammadi, E., and Sorooshian, A.: Influence of meteorological factors and air pollutants on bacterial concentration across two urban areas of the Sistan region of Iran, *Urban Climate*, 51, 101650, <https://doi.org/10.1016/j.uclim.2023.101650>, 2023.
224. Lorenzo, G. R., Arellano, A. F., Cambaliza, M. O., Castro, C., Cruz, M. T., Di Girolamo, L., Gacal, G. F., Hilario, M. R. A., Lagrosas, N., Ong, H. J., Simpas, J. B., Uy, S. N., and Sorooshian, A.: An Aerosol Climatology via Remote Sensing over Metro Manila, Philippines, *EGUsphere*, 2023, 1-43, 10.5194/egusphere-2023-197, 2023.
223. Kirschler, S., Voigt, C., Anderson, B. E., Chen, G., Crosbie, E. C., Ferrare, R. A., Hahn, V., Hair, J. W., Kaufmann, S., Moore, R. H., Painemal, D., Robinson, C. E., Sanchez, K. J., Scarino, A. J., Shingler, T. J., Shook, M. A., Thornhill, K. L., Winstead, E. L., Ziemba, L. D., and

- Sorooshian, A.: Overview and statistical analysis of boundary layer clouds and precipitation over the western North Atlantic Ocean, *Atmos. Chem. Phys.*, 23, 10731-10750, 10.5194/acp-23-10731-2023, 2023.
222. Xiao, Q., Zhang, J., Wang, Y., Ziemba, L. D., Crosbie, E., Winstead, E. L., Robinson, C. E., DiGangi, J. P., Diskin, G. S., Reid, J. S., Schmidt, K. S., Sorooshian, A., Hilario, M. R. A., Woods, S., Lawson, P., Stamnes, S. A., and Wang, J.: New particle formation in the tropical free troposphere during CAMP2Ex: statistics and impact of emission sources, convective activity, and synoptic conditions, *Atmos. Chem. Phys.*, 23, 9853-9871, 10.5194/acp-23-9853-2023, 2023.
221. Miri, A., Shirmohammadi, E., and Sorooshian, A.: Impacts of dust storms on indoor and outdoor bioaerosol concentration in the Sistan region of Iran, *Journal of Building Engineering*, 76, 107302, <https://doi.org/10.1016/j.jobe.2023.107302>, 2023.
220. Sorooshian, A., Alexandrov, M. D., Bell, A. D., Bennett, R., Betito, G., Burton, S. P., Buzanowicz, M. E., Cairns, B., Chemyakin, E. V., Chen, G., Choi, Y., Collister, B. L., Cook, A. L., Corral, A. F., Crosbie, E. C., van Dierenhoven, B., DiGangi, J. P., Diskin, G. S., Dmitrovic, S., Edwards, E. L., Fenn, M. A., Ferrare, R. A., van Gilst, D., Hair, J. W., Harper, D. B., Hilario, M. R. A., Hostetler, C. A., Jester, N., Jones, M., Kirschler, S., Kleb, M. M., Kusterer, J. M., Leavor, S., Lee, J. W., Liu, H., McCauley, K., Moore, R. H., Nied, J., Notari, A., Nowak, J. B., Painemal, D., Phillips, K. E., Robinson, C. E., Scarino, A. J., Schlosser, J. S., Seaman, S. T., Seethala, C., Shingler, T. J., Shook, M. A., Sinclair, K. A., Smith Jr, W. L., Spangenberg, D. A., Stamnes, S. A., Thornhill, K. L., Voigt, C., Vömel, H., Wasilewski, A. P., Wang, H., Winstead, E. L., Zeider, K., Zeng, X., Zhang, B., Ziemba, L. D., and Zuidema, P.: Spatially coordinated airborne data and complementary products for aerosol, gas, cloud, and meteorological studies: the NASA ACTIVATE dataset, *Earth Syst. Sci. Data*, 15, 3419-3472, 10.5194/essd-15-3419-2023, 2023.
219. Soltani, N., Amini-Birami, F., Keshavarzi, B., Moore, F., Busquets, R., Sorooshian, A., Javid, R., and Shahraki, A. R.: Microplastic occurrence in selected aquatic species of the Persian Gulf: No evidence of trophic transfer or effect of diet, *Science of The Total Environment*, 892, 164685, <https://doi.org/10.1016/j.scitotenv.2023.164685>, 2023.
218. Keshavarz-Fathi, M., Yazdanpanah, N., Kolahchi, S., Ziaei, H., Darmstadt, G. L., Dorigo, T., Dochy, F., Levin, L., Thongboonkerd, V., Ogino, S., Chen, W.-H., Perc, M., Tremblay, M. S., Olusanya, B. O., Rao, I. M., Hatziargyriou, N., Moradi-Lakeh, M., Bella, F., Rosivall, L., Gandomi, A. H., Sorooshian, A., Gupta, M., Gal, C., Lozano, A. M., Weaver, C., Tanzer, M., Poggi, A., Sepanlou, S. G., Weiskirchen, R., Jambrak, A. R., Torres, P. J., Capanoglu, E., Barba, F. J., Ernest, C. K. J., Sigman, M., Pluchino, S., Gharehpetian, G. B., Fereshtehnejad, S.-M., Yang, M.-H., Thomas, S., Cai, W., Comini, E., Scolding, N. J., Myles, P. S., Nieto, J. J., Perry, G., Sedikides, C., and Rezaei, N.: Universal research index: An inclusive metric to quantify scientific research output, *The Journal of Academic Librarianship*, 49, 102714, <https://doi.org/10.1016/j.acalib.2023.102714>, 2023.
217. Painemal, D., Chellappan, S., Smith Jr., W. L., Spangenberg, D., Park, J. M., Ackerman, A., Chen, J., Crosbie, E., Ferrare, R., Hair, J., Kirschler, S., Li, X.-Y., McComiskey, A., Moore, R. H., Sanchez, K., Sorooshian, A., Tornow, F., Voigt, C., Wang, H., Winstead, E., Zeng, X., Ziemba, L., and Zuidema, P.: Wintertime Synoptic Patterns of Midlatitude Boundary Layer Clouds Over the Western North Atlantic: Climatology and Insights From In Situ ACTIVATE Observations, *Journal of Geophysical Research: Atmospheres*, 128, e2022JD037725, <https://doi.org/10.1029/2022JD037725>, 2023.
216. Li, X.-Y., Wang, H., Chen, J., Endo, S., Kirschler, S., Voigt, C., Crosbie, E., Ziemba, L. D., Painemal, D., Cairns, B., Hair, J. W., Corral, A. F., Robinson, C., Dadashazar, H., Sorooshian, A., Chen, G., Ferrare, R. A., Kleb, M. M., Liu, H., Moore, R., Scarino, A. J., Shook, M. A., Shingler, T. J., Thornhill, K. L., Tornow, F., Xiao, H., and Zeng, X.: Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air

- Outbreaks during the ACTIVATE Campaign. Part II: Aerosol–Meteorology–Cloud Interaction, *Journal of the Atmospheric Sciences*, 80, 1025-1045, <https://doi.org/10.1175/JAS-D-21-0324.1>, 2023.
215. Ferrare, R., Hair, J. W., Hostetler, C. A., Shingler, T., Burton, S. P., Fenn, M., Clayton, M., Scarino, A. J., Harper, D., Seaman, S., Cook, A., Crosbie, E., Winstead, E., Ziemba, L., Thornhill, L., Robinson, C., Moore, R. H., Vaughan, M., Sorooshian, A., Schlosser, J., Liu, H., Zhang, B., Diskin, G., DiGangi, J., Nowak, J., Choi, Y., Zuidema, P., and Chellappan, S.: Airborne HSRL-2 measurements of elevated aerosol depolarization associated with non-spherical sea salt, *Front. Remote Sens.*, 4, 10.3389/frsen.2023.1143944, 2023.
214. Rad, H. D., Maleki, H., Goudarzi, G., Assarehzadegan, M.-A., Idani, I., Babaei, A. A., Neisi, A., Jahantab, S., Parishani, M. R., Dinarvand, M., Sorooshian, A., Namjoyan, F., and Pour, M. N.: Investigating Airborne Pollen Grains and Fungal Spores that Might be Related to Thunderstorm Asthma Attacks, *International Journal of Environmental Research*, 17, 28, 10.1007/s41742-023-00515-z, 2023.
213. Gryspeerdt, E., Povey, A. C., Grainger, R. G., Hasekamp, O., Hsu, N. C., Mulcahy, J. P., Sayer, A. M., and Sorooshian, A.: Uncertainty in aerosol-cloud radiative forcing is driven by clean conditions, *Atmos. Chem. Phys.*, 1-13, 10.5194/acp-2022-642, 2023.
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