

## **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**

- First recipient of College of Engineering’s Doctoral Dissertation Advisor/Mentor Award (2022)
- Selected as Participant of the NSF-supported Engineering Research Visioning Alliance (ERVA) (2021-2022)
- NASA Group Achievement Award for CAMP<sup>2</sup>Ex 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, 2016-2019)
- 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, 2018-2019; 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 SEAC<sup>4</sup>RS 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 8<sup>th</sup> 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

### **AIRBORNE FIELD EXPERIMENT PARTICIPATION**

- (Mission PI) ACTIVATE: Aerosol Cloud meTeorology Interactions oVer the western Atlantic Experiment (2019-2025; \$30M NASA Earth Venture Suborbital mission)
- (Mission PI) MONARC: MONterey Aerosol Research Campaign, Monterey, CA (2019)
- (Instrument PI) CAMP<sup>2</sup>EX: Cloud and Aerosol Monsoonal Processes-Philippines Experiment, Philippines (2019)
- (Mission PI) MACAWS: Marine Aerosol Cloud and Wildfire Study, Monterey, CA (2018)
- (Mission PI) FASE: Fog and Stratocumulus Evolution Experiment, Monterey, CA (2016)
- (Mission PI) BOAS: Biological Ocean Atmospheric Study, Monterey, CA (2015)
- (Instrument PI) SEAC<sup>4</sup>RS: Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (2013)
- (Mission PI) NICE: Nucleation in California Experiment (2013)
- (Instrument PI) DC-3: Deep Convective Clouds and Chemistry Experiment, United States (2012)
- (Mission PI) E-PEACE: Eastern Pacific Emitted Aerosol Cloud Experiment, Monterey, CA (2011)
- (Instrument PI) CalNex: California Nexus, Los Angeles, CA (2010)
- MASE II: Marine Stratus/Stratocumulus Experiment, Monterey, CA (Flight scientist) (2007)
- GoMACCS/TexAQS: Gulf of Mexico Atmospheric Composition and Climate Study/Texas Air Quality Study, Houston, TX (Flight scientist) (2006)
- MASE I: Marine Stratus/Stratocumulus Experiment, Monterey, CA (2005)
- ICARTT: International Consortium for Atmospheric Research on Transport and Transformation, Cleveland, OH (2004)

### **REVIEWER ROLES**

NASA (4 panels), EPA (2 panels), NSF (1 panel; 15 proposals), DOE (1 panel), Department of Homeland Security (1 proposal), American Chemical Society Petroleum Research Fund (1 proposal), Qatar National Research Fund (3 proposals), European Research Council (1 proposal), Canadian Space Agency (2 proposals), Israel Science Foundation (1 proposal), Netherlands Organisation for Scientific Research (1 proposal), City University of New York internal grant competition (1 proposal), Book Chapters (2), Textbook (1), > 100 Articles for Various Peer-Review Journals including: *Nature Geoscience*, *Nature Communications*, *Reviews of Geophysics*, *Chemical Reviews*, *Aerosol Science and Technology*, *Environmental Science and Technology*, *Geophysical Research Letters*, *Journal of Geophysical Research*, *Atmospheric Chemistry and Physics*, *Physical Chemistry Chemical Physics*, *Atmospheric Environment*, *Journal of Advances in Modeling Earth Systems*, *Journal of Atmospheric and Oceanic Technology*, *Atmospheric Measurement Techniques*, *Atmospheric Research*

## NATIONAL/INTERNATIONAL SERVICE POSITIONS HELD

- Scientific Committee for Oceanographic Aircraft Research (SCOAR; University-National Oceanographic Laboratory System) (2021-present)
- Reviewer: National Academies' Report on the Future Use of NASA Airborne Platforms to Advance Earth Science Priorities (2021)
- American Association for Aerosol Research (AAAR) Awards Committee (2020-present; Chair 2021-present)
- Science Community Cohort (SCC) member for NASA's Aerosols and Cloud-Convection Precipitation (A-CCP) Study (2018-2021)
- Editorial Board: *Atmosphere* (2015-2021)
- Editorial Board: *Geomatics, Natural Hazards and Risk* (2015-2020)
- Editorial Board: *Atmospheric Chemistry and Physics* (2015-present)
- Board of Directors (2017-2021), Division Board Member (2011-2021); AIChE Environmental Division (ongoing)

## REFEREED JOURNAL PUBLICATIONS

Google Scholar h-index is 57 with 10113 citations as of 5 August 2022

198. Dadashazar, H., Crosbie, E., Choi, Y., Corral, A. F., DiGangi, J. P., Diskin, G. S., Dmitrovic, S., Kirschler, S., McCauley, K., Moore, R. H., Nowak, J. B., Robinson, C. E., Schlosser, J., Shook, M., Thornhill, K. L., Voigt, C., Winstead, E. L., Ziemba, L. D., and Sorooshian, A.: Analysis of MONARC and ACTIVATE Airborne Aerosol Data for Aerosol-Cloud Interaction Investigations: Efficacy of Stairstepping Flight Legs for Airborne In Situ Sampling, *Atmosphere*, 13, 1242, 2022.
197. Barkhordari, A., I. Guzman, M., Ebrahimzadeh, G., Sorooshian, A., Delikhoon, M., Jamshidi Rastani, M., Golbaz, S., Fazlzadeh, M., Nabizadeh, R., and Norouzian Baghani, A.: Characteristics and health effects of particulate matter emitted from a waste sorting plant, *Waste Management*, 150, 244-256, <https://doi.org/10.1016/j.wasman.2022.07.012>, 2022.
196. Namdari, S., Zghair Alnasrawi, A. I., Ghorbanzadeh, O., Sorooshian, A., Kamran, K. V., and Ghamisi, P.: Time Series of Remote Sensing Data for Interaction Analysis of the Vegetation Coverage and Dust Activity in the Middle East, *Remote Sensing*, 14, 2963, 2022.
195. Schlosser, J. S., Stahl, C., Sorooshian, A., Le, Y. T. H., Jeon, K. J., Xian, P., Jordan, C. E., Travis, K. R., Crawford, J. H., Gong, S. Y., Shin, H. J., Song, I. H., and Youn, J.: Evidence of haze-driven secondary production of supermicrometer aerosol nitrate and sulfate in size distribution data in South Korea, *Atmos. Chem. Phys.*, 22, 7505-7522, [10.5194/acp-22-7505-2022](https://doi.org/10.5194/acp-22-7505-2022), 2022.
194. Parsinejad, M., Rosenberg, D. E., Ghale, Y. A. G., Khazaei, B., Null, S. E., Raja, O., Safaie, A., Sima, S., Sorooshian, A., and Wurtsbaugh, W. A.: 40-years of Lake Urmia restoration research: Review, synthesis and next steps, *Science of The Total Environment*, 832, 155055, <https://doi.org/10.1016/j.scitotenv.2022.155055>, 2022.
193. Maleki, H., Sorooshian, A., Alam, K., Fathi, A., Weckwerth, T., Moazed, H., Jamshidi, A., Babaei, A. A., Hamid, V., Soltani, F., and Goudarzi, G.: The impact of meteorological parameters on PM10 and visibility during the Middle Eastern dust storms, *Journal of Environmental Health Science and Engineering*, [10.1007/s40201-022-00795-1](https://doi.org/10.1007/s40201-022-00795-1), 2022.
192. Corral, A. F., Choi, Y., Crosbie, E., Dadashazar, H., DiGangi, J. P., Diskin, G. S., Fenn, M., Harper, D. B., Kirschler, S., Liu, H., Moore, R. H., Nowak, J. B., Scarino, A. J., Seaman, S.,

- Shingler, T., Shook, M. A., Thornhill, K. L., Voigt, C., Zhang, B., Ziemba, L. D., and Sorooshian, A.: Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast, *Geophysical Research Letters*, 49, e2021GL096073, <https://doi.org/10.1029/2021GL096073>, 2022.
191. Kacenelenbogen, M. S. F., Tan, Q., Burton, S. P., Hasekamp, O. P., Froyd, K. D., Shinzuka, Y., Beyersdorf, A. J., Ziemba, L., Thornhill, K. L., Dibb, J. E., Shingler, T., Sorooshian, A., Espinosa, R. W., Martins, V., Jimenez, J. L., Campuzano-Jost, P., Schwarz, J. P., Johnson, M. S., Redemann, J., and Schuster, G. L.: Identifying chemical aerosol signatures using optical suborbital observations: how much can optical properties tell us about aerosol composition?, *Atmos. Chem. Phys.*, 22, 3713-3742, 10.5194/acp-22-3713-2022, 2022.
190. Ahmadi, A., Moore, F., Keshavarzi, B., Soltani, N., and Sorooshian, A.: Potentially toxic elements and microplastics in muscle tissues of different marine species from the Persian Gulf: Levels, associated risks, and trophic transfer, *Marine Pollution Bulletin*, 175, 113283, <https://doi.org/10.1016/j.marpolbul.2021.113283>, 2022.
189. Mohammadi, S., Keshavarzi, B., Moore, F. et al. Macronutrients, trace metals and health risk assessment in agricultural soil and edible plants of Mahshahr City, Iran. *Environ Monit Assess* 194, 131, 2022.
188. Li, X.-Y., Wang, H., Chen, J., Endo, S., George, G., Cairns, B., Chellappan, S., Zeng, X., Kirschler, S., Voigt, C., Sorooshian, A., Crosbie, E., Chen, G., Ferrare, R. A., Gustafson, W. I., Hair, J. W., Kleb, M. M., Liu, H., Moore, R., Painemal, D., Robinson, C., Scarino, A. J., Shook, M., Shingler, T. J., Thornhill, K. L., Tornow, F., Xiao, H., Ziemba, L. D., and Zuidema, P.: Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air Outbreaks during the ACTIVATE Campaign. Part I: Case Setup and Sensitivities to Large-Scale Forcings, *Journal of the Atmospheric Sciences*, 79, 73-100, 10.1175/jas-d-21-0123.1, 2022.
187. Mardi, A. H., Dadashazar, H., Painemal, D., Shingler, T., Seaman, S. T., Fenn, M. A., Hostetler, C. A., and Sorooshian, A.: Biomass Burning Over the United States East Coast and Western North Atlantic Ocean: Implications for Clouds and Air Quality, *J. Geophys. Res. Atmos.*, 126, 10.1029/2021JD034916, 2021.
186. Rezaali, M., Fouladi-Fard, R., Mojarad, H., Sorooshian, A., Mahdinia, M., and Mirzaei, N.: A wavelet-based random forest approach for indoor BTEX spatiotemporal modeling and health risk assessment, *Environmental Science and Pollution Research*, 28, 22522-22535, 10.1007/s11356-020-12298-3, 2021.
185. Hilario, M. R. A., Crosbie, E., Bañaga, P. A., Betito, G., Braun, R. A., Cambaliza, M. O., Corral, A. F., Cruz, M. T., Dibb, J. E., Lorenzo, G. R., MacDonald, A. B., Robinson, C. E., Shook, M. A., Simpas, J. B., Stahl, C., Winstead, E., Ziemba, L. D., and Sorooshian, A.: Particulate Oxalate-To-Sulfate Ratio as an Aqueous Processing Marker: Similarity Across Field Campaigns and Limitations, *Geophysical Research Letters*, 48, e2021GL096520, <https://doi.org/10.1029/2021GL096520>, 2021.
184. Dashti, M., Sorooshian, A., Vosoughi, M., Mokhtari, S., Sadeghi, H., and Baghani, A.: On the nature of indoor airborne bioaerosols at a hospital in Iran, *Journal of Air Pollution and Health*, 6, 10.18502/japh.v6i1.7602, 2021.
183. Dadashazar, H., Alipanah, M., Hilario, M. R. A., Crosbie, E., Kirschler, S., Liu, H., Moore, R. H., Peters, A. J., Scarino, A. J., Shook, M., Thornhill, K. L., Voigt, C., Wang, H., Winstead, E., Zhang, B., Ziemba, L., and Sorooshian, A.: Aerosol responses to precipitation

- along North American air trajectories arriving at Bermuda, *Atmos. Chem. Phys.*, 21, 16121-16141, 10.5194/acp-21-16121-2021, 2021.
182. Dadashazar, H., Painemal, D., Alipanah, M., Brunke, M., Chellappan, S., Corral, A. F., Crosbie, E., Kirschler, S., Liu, H., Moore, R. H., Robinson, C., Scarino, A. J., Shook, M., Sinclair, K., Thornhill, K. L., Voigt, C., Wang, H., Winstead, E., Zeng, X., Ziemba, L., Zuidema, P., and Sorooshian, A.: Cloud drop number concentrations over the western north atlantic ocean: Seasonal cycle, aerosol interrelationships, and other influential factors, *Atmos. Chem. Phys.*, 21, 10499-10526, 10.5194/acp-21-10499-2021, 2021.
  181. Ahmady-Birgani, H., Ravan, P., Simon Schlosser, J., Cuevas-Robles, A., Azadiaghdam, M., and Sorooshian, A.: Is There a Relationship between Lake Urmia Saline Lakebed Emissions and Wet Deposition Composition in the Caucasus Region?, *ACS Earth and Space Chemistry*, 5, 2970-2985, 10.1021/acsearthspacechem.1c00320, 2021.
  180. Gonzalez, M. E., Garfield, J. G., Corral, A. F., Edwards, E. L., Zeider, K., and Sorooshian, A.: Extreme aerosol events at Mesa Verde, Colorado: Implications for air quality management, *Atmosphere*, 12, 10.3390/atmos12091140, 2021.
  179. Stahl, C., Crosbie, E., Bañaga, P. A., Betito, G., Braun, R. A., Cainglet, Z. M., Cambaliza, M. O., Cruz, M. T., Dado, J. M., Hilario, M. R. A., Leung, G. F., MacDonald, A. B., Magnaye, A. M., Reid, J., Robinson, C., Shook, M. A., Simpas, J. B., Visaga, S. M., Winstead, E., Ziemba, L., and Sorooshian, A.: Total organic carbon and the contribution from speciated organics in cloud water: Airborne data analysis from the CAMP2Ex field campaign, *Atmos. Chem. Phys.*, 21, 14109-14129, 10.5194/acp-21-14109-2021, 2021.
  178. Yazdani, M., Baboli, Z., Maleki, H., Birgani, Y. T., Zahiri, M., Chaharmahal, S. S. H., Goudarzi, M., Mohammadi, M. J., Alam, K., Sorooshian, A., and Goudarzi, G.: Contrasting Iran's air quality improvement during COVID-19 with other global cities, *Journal of Environmental Health Science and Engineering*, 10.1007/s40201-021-00735-5, 2021.
  177. Seethala, C., Zuidema, P., Edson, J., Brunke, M., Chen, G., Li, X. Y., Painemal, D., Robinson, C., Shingler, T., Shook, M., Sorooshian, A., Thornhill, L., Tornow, F., Wang, H., Zeng, X., and Ziemba, L.: On Assessing ERA5 and MERRA2 Representations of Cold-Air Outbreaks Across the Gulf Stream, *Geophys. Res. Lett.*, 48, 10.1029/2021GL094364, 2021.
  176. Braun, R. A., McComiskey, A., Tselioudis, G., Tropf, D., and Sorooshian, A.: Cloud, Aerosol, and Radiative Properties Over the Western North Atlantic Ocean, *J. Geophys. Res. Atmos.*, 126, 10.1029/2020JD034113, 2021.
  175. Baboli, Z., Neisi, N., Babaei, A. A., Ahmadi, M., Sorooshian, A., Birgani, Y. T., and Goudarzi, G.: On the airborne transmission of SARS-CoV-2 and relationship with indoor conditions at a hospital, *Atmos. Environ.*, 261, 10.1016/j.atmosenv.2021.118563, 2021.
  174. Stahl, C., Frederick, K., Chaudhary, S., Morton, C. J., Loy, D., Muralidharan, K., Sorooshian, A., and Parthasarathy, S.: Comparison of the Filtration Efficiency of Different Face Masks Against Aerosols, *Front. Med.*, 8, 10.3389/fmed.2021.654317, 2021.
  173. Zeider, K., Van Overmeiren, N., Rine, K. P., Sandhaus, S., Eduardo Sáez, A., Sorooshian, A., Muñoz, H. C., and Ramírez-Andreotta, M. D.: Foliar surfaces as dust and aerosol pollution monitors: An assessment by a mining site, *Sci. Total Environ.*, 790, 10.1016/j.scitotenv.2021.148164, 2021.
  172. Nematollahi, M. J., Keshavarzi, B., Moore, F., Esmaili, H. R., Nasrollahzadeh Saravi, H., and Sorooshian, A.: Microplastic fibers in the gut of highly consumed fish species from the southern Caspian Sea, *Marine Pollution Bulletin*, 168, 10.1016/j.marpolbul.2021.112461, 2021.

171. Namdari, S., Valizadeh Kamran, K., and Sorooshian, A.: Analysis of some factors related to dust storms occurrence in the Sistan region, *Environmental Science and Pollution Research*, 28, 45450-45458, 10.1007/s11356-021-13922-6, 2021.
170. Jafari, A. J., Delikhoon, M., Rastani, M. J., Baghani, A. N., Sorooshian, A., Rohani-Rasaf, M., Kermani, M., Kalantary, R. R., Golbaz, S., and Golkhorshidi, F.: Characteristics of gaseous and particulate air pollutants at four different urban hotspots in Tehran, Iran, *Sustainable Cities and Society*, 70, 10.1016/j.scs.2021.102907, 2021.
169. Edwards, E. L., Corral, A. F., Dadashazar, H., Barkley, A. E., Gaston, C. J., Zuidema, P., and Sorooshian, A.: Impact of various air mass types on cloud condensation nuclei concentrations along coastal southeast Florida, *Atmos. Environ.*, 254, 10.1016/j.atmosenv.2021.118371, 2021.
168. Lorenzo, G., Angela Bañaga, P., Obiminda Cambaliza, M., Templonuevo Cruz, M., Azadiaghdam, M., Arellano, A., Betito, G., Braun, R., Corral, A. F., Dadashazar, H., Edwards, E. L., Eloranta, E., Holz, R., Leung, G., Ma, L., Macdonald, A. B., Reid, J. S., Bernard Simpas, J., Stahl, C., Marie Visaga, S., and Sorooshian, A.: Measurement report: Firework impacts on air quality in Metro Manila, Philippines, during the 2019 New Year revelry, *Atmos. Chem. Phys.*, 21, 6155-6173, 10.5194/acp-21-6155-2021, 2021.
167. Aldhaif, A. M., Lopez, D. H., Dadashazar, H., Painemal, D., Peters, A. J., and Sorooshian, A.: An Aerosol Climatology and Implications for Clouds at a Remote Marine Site: Case Study Over Bermuda, *J. Geophys. Res. Atmos.*, 126, 10.1029/2020JD034038, 2021.
166. Hilario, M., Crosbie, E., Shook, M., Reid, J. S., Obiminda L. Cambaliza, M., Bernard B. Simpas, J., Ziemba, L., Digangi, J. P., Diskin, G. S., Nguyen, P., Joseph Turk, F., Winstead, E., Robinson, C. E., Wang, J., Zhang, J., Wang, Y., Yoon, S., Flynn, J., Alvarez, S. L., Behrangi, A., and Sorooshian, A.: Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP2Ex aircraft campaign: Chemical composition, size distributions, and the impact of convection, *Atmos. Chem. Phys.*, 21, 3777-3802, 10.5194/acp-21-3777-2021, 2021.
165. Farzadkia, M., Mahvi, A. H., Norouzian Baghani, A., Sorooshian, A., Delikhoon, M., Sheikhi, R., and Ashournejad, Q.: Municipal solid waste recycling: Impacts on energy savings and air pollution, *Journal of the Air and Waste Management Association*, 71, 737-753, 10.1080/10962247.2021.1883770, 2021.
164. Soltani, N., Keshavarzi, B., Moore, F., Cave, M., Sorooshian, A., Mahmoudi, M. R., Ahmadi, M. R., and Golshani, R.: In vitro bioaccessibility, phase partitioning, and health risk of potentially toxic elements in dust of an iron mining and industrial complex, *Ecotoxicology and Environmental Safety*, 212, 10.1016/j.ecoenv.2021.111972, 2021.
163. Gonzalez, M. E., Stahl, C., Cruz, M. T., Bañaga, P. A., Betito, G., Braun, R. A., Azadi Aghdam, M., Cambaliza, M. O., Lorenzo, G. R., MacDonald, A. B., Simpas, J. B., Csavina, J., Sáez, A. E., Betterton, E., and Sorooshian, A.: Contrasting the size-resolved nature of particulate arsenic, cadmium, and lead among diverse regions, *Atmospheric Pollution Research*, 12, 352-361, 10.1016/j.apr.2021.01.002, 2021.
162. Cuevas-Robles, A., Soltani, N., Keshavarzi, B., Youn, J. S., MacDonald, A. B., and Sorooshian, A.: Hygroscopic and chemical properties of aerosol emissions at a major mining facility in Iran: Implications for respiratory deposition, *Atmospheric Pollution Research*, 12, 292-301, 10.1016/j.apr.2020.12.015, 2021.
161. Painemal, D., Corral, A.F., Sorooshian, A., Brunke, M.A., Chellappan, S., Gorrooh, V.A., Ham, S., O'Neill, L., Smith Jr., W.L., Tselioudis, G., Wang, H., Zeng, X., Zuidema, P., 2021.

- An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast – Part 2: Circulation, Boundary Layer, and Clouds. *J. Geophys. Res.-Atmos.*, doi: 10.1029/2020JD033423.
160. Corral, A. F., <sup>+</sup>Braun, R. A., Cairns, B., Gorrooh, V. A., Liu, H., Ma, L., et al. (2020). An overview of atmospheric features over the western North Atlantic Ocean and North American East Coast – Part 1: Analysis of aerosols, gases, and wet deposition chemistry. *Journal of Geophysical Research-Atmospheres*, in press.
159. <sup>+</sup>Stahl, C., Cruz, M. T., Bañaga, P. A., Betito, G., <sup>+</sup>Braun, R. A., <sup>+</sup>Aghdam, M. A., Cambaliza, M. O., <sup>+</sup>Lorenzo, G. R., <sup>+</sup>MacDonald, A. B., <sup>+</sup>Hilario, M. R. A., Pabroa, P. C., Yee, J. R., Simpas, J. B., and Sorooshian, A. (2020). Sources and characteristics of size-resolved particulate organic acids and methanesulfonate in a coastal megacity: Manila, Philippines, *Atmos. Chem. Phys.*, in press.
158. Corral, A.F., <sup>+</sup>Dadashazar, H., <sup>+</sup>Stahl, C., <sup>+</sup>Edwards, E.-L., Zuidema, P., and Sorooshian, A. (2020). Source Apportionment of Aerosol at a Coastal Site and Relationships with Precipitation Chemistry: A Case Study over the Southeast United States. *Atmosphere*, 11, 1212.
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## BOOKS

1. *Atmospheric Composition Observations*, edited by A. Sorooshian, pp. 322, MDPI. 2016.

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