



Yuan Wang

Assistant Professor of Earth System Science and Center Fellow, by courtesy, at the Woods Institute for the Environment

Bio

BIO

Yuan Wang is an Assistant Professor in the Department of Earth System Science at the Stanford Doerr School of Sustainability. He is also a Center Fellow in the Woods Institute for the Environment. Prior to joining Stanford, he was an Associate Professor at Purdue University and a research scientist at California Institute of Technology. His research group aims to advance the understanding of the physical and chemical interactions between atmospheric constituents and climate change. Specifically, his group conducts research related to aerosol-cloud-radiation interactions and their climatic implications, aerosol properties and haze formation, cloud and precipitation microphysics, and the assessment of the greenhouse gas and aerosol forcings on the atmosphere, ocean, and cryosphere. They develop and use multiscale numerical and AI models in combination with space-borne and in situ measurements to address those scientific questions. Yuan is a recipient of the James B. Macelwane Medal and James R. Holton Award from the American Geophysical Union, the Henry G. Houghton Award from the American Meteorological Society, and the CAREER Award from National Science Foundation.

ACADEMIC APPOINTMENTS

- Assistant Professor, Earth System Science
- Center Fellow (By courtesy), Stanford Woods Institute for the Environment

HONORS AND AWARDS

- ACP Outstanding Editor Award, European Geosciences Union (2026)
- CAREER Award, National Science Foundation (2025)
- Human and Planetary Health Early-Career Research Award, Stanford University (2025)
- Henry G. Houghton Award, American Meteorological Society (2024)
- Fellow, American Geophysical Union (2023)
- James B. Macelwane Medal, American Geophysical Union (2023)
- Turco Lectureship: Future Horizons in Climate Science, American Geophysical Union (2021)
- Journal of the Atmospheric Sciences Editor's Award, American Meteorological Society (2017)
- James R. Holton Award, American Geophysical Union (2016)
- Early Career Scientist Medal, International Association of Meteorology and Atmospheric Sciences (2015)
- Best Thesis Award, Springer (2014)
- Distinguished Graduate Student Award, Texas A&M University (2014)
- Editor's Citation Award for Excellence in Scientific Refereeing, American Geophysical Union (2013)

- Earth and Space Science Fellowship, NASA (2009-2012)
- The Regents' Scholarship, Texas A&M University (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Inaugural Editor-in-Chief, npj Clean Air (2024 - present)
- Committee Member, AGU Union Medal Selection Committee (2024 - present)
- Associate Editor, Journal of Advances in Modeling the Earth System (2022 - 2025)
- Chair, AMS Verner E. Suomi Technology Medal Committee (2025 - present)
- Chair, AMS Committee on Atmospheric Chemistry (2024 - 2025)
- Committee Member, AMS Atmospheric Research Award Committee (2024 - present)
- Editor, Atmospheric Chemistry and Physics (2022 - present)
- Associate Editor, Journal of the Atmospheric Sciences (2017 - 2021)
- Committee Member, AGU Atmospheric Sciences Early Career Committee (2019 - 2021)

PROFESSIONAL EDUCATION

- B.S., Fudan University , Computer Science (2007)
- Ph.D, Texas A&M University , Atmospheric Sciences (2013)

LINKS

- Wang Research Lab: <https://wang-lab.stanford.edu/>
- Google Scholar: <https://scholar.google.com/citations?user=6MZIQHUAAAAJ&hl=en>

Teaching

COURSES

2025-26

- Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation: CEE 161I, CEE 261I, EARTHSYS 146A, EARTHSYS 246A, ESS 246A (Aut)
- Cloud and Aerosol: From Microphysics to Climate Change: CEE 263E, ESS 288 (Spr)

2024-25

- Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation: CEE 161I, CEE 261I, EARTHSYS 146A, ESS 246A (Aut)
- Cloud and Aerosol: From Microphysics to Climate Change: ESS 326 (Spr)

2023-24

- Atmospheric Physics: ESS 326 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Yuhan Wang, Xiaojian Zheng

Doctoral Dissertation Advisor (AC)

Qi Ge

Doctoral Dissertation Co-Advisor (AC)

Ayako Kawano

Doctoral (Program)

Yangfan Liu, Sasha Tolstoff

Publications

PUBLICATIONS

- **Machine-Learning Source Apportionment of Particulate Pollution Aids Urban Emission Regulations.** *Environmental science & technology*
Peng, X., Ma, H. N., He, L. Y., Cao, L. M., Tang, M. X., Wang, Y., Chen, D. H., Zhou, Y., Tang, K. J., He, L., Feng, N., Zeng, L. W., Wang, et al
2026
- **Surface Temperature Reversibility and the Roles of Clouds on the Decadal Time Scale** *JOURNAL OF CLIMATE*
Ge, Q., Wang, Y., Jiang, J. H.
2026; 39 (8): 1955-1970
- **Empirical evidence of air pollution reduction from electric vehicle usage across Chinese cities** *NATURE CITIES*
Ma, Y., Qiu, M., Wang, Y., Pan, J., Guo, J., Gu, F., Li, X.
2026
- **Detecting supramolecular organic nanoparticles during heat wave.** *Science (New York, N.Y.)*
Zhang, R., Li, Y., Zhao, J., Aridjis-Olivos, B., Zhao, L., Kowalewski, V., Kabir, M., Johnson, N. M., Nielsen, E. R., Brooks, S. D., Zhang, Y., Vedlitz, A., Porter, et al
2026; 391 (6786): eady5192
- **Air quality improvement masks global cooling from CO2 reductions under China's carbon neutrality policies for half a century.** *Nature communications*
Zhao, B., Wang, X., Wang, Y., Sun, Y., Gao, D., Ge, Q., Gao, Y., Zhang, J., Zhang, Y., Shindell, D., Davis, S. J., Lin, G., Wang, et al
2026
- **Temperature and stagnation effects on ozone sensitivity to NO_x and VOC: an adjoint modeling study in central California** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Wang, Y., Bastien, L. A. J., Wang, Y., Jin, L., Harley, R. A.
2025; 25 (23): 17651-17665
- **Widening cost-benefits gap of emission control measures in India from 2017 to 2022** *ATMOSPHERIC POLLUTION RESEARCH*
Zhang, M., Wang, S., Han, Z., Tao, C., Wang, Y., Kumar, M. N., Dahiya, S., Wang, P., Zhang, H.
2025; 16 (10)
- **Thermodynamically constrained retrieval algorithm to estimate subpixel fire properties** *REMOTE SENSING OF ENVIRONMENT*
Zhang, C., Wang, Y., Wang, J., Soja, A., Gargulinski, E., Peterson, D., Kalashnikova, O., Zhao, B., Cheng, Y., Li, F., Chakrabarty, R.
2025; 328
- **Numerical case study of the aerosol-cloud interactions in warm boundary layer clouds over the eastern North Atlantic with an interactive chemistry module** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Lee, H., Zheng, X., Qiu, S., Wang, Y.
2025; 25 (12): 6069-6091
- **Clouds buffer arctic warming.** *National science review*
Wang, Y.
2025; 12 (6): nwaf165
- **Demystifying the drivers of the spring warming asymmetry between Eurasia and North America.** *Science advances*
Ding, X., Chen, G., Wang, Y., Sun, L.
2025; 11 (22): eadu2364
- **Atmospheric sulfate aerosol formation enhanced by interfacial anions** *PNAS NEXUS*
Wang, G., Zhang, S., Wu, C., Zhu, T., Xu, X., Ge, S., Sun, H., Sun, Z., Wang, J., Ji, Y., Gao, J., Ren, Y., Li, et al
2025; 4 (3): pgaf058

- **Shortwave cloud warming effect observed over highly reflective Greenland.** *Science bulletin*
Zhang, H., Zhao, C., Li, J., Yu, Y., Chen, A., Yang, Y., Xia, Y., Yang, J., Sun, Y., Chi, Y., Zhao, X., Wang, Y., Huang, et al
2025
- **Aerosol light absorption alleviates particulate pollution during wintertime haze events.** *Proceedings of the National Academy of Sciences of the United States of America*
Wu, J., Bei, N., Wang, Y., Su, X., Zhang, N., Wang, L., Hu, B., Wang, Q., Jiang, Q., Zhang, C., Liu, Y., Wang, R., Li, et al
2025; 122 (1): e2402281121
- **Short-Lived Air Pollutants and Climate Forcers Through the Lens of the COVID-19 Pandemic** *REVIEWS OF GEOPHYSICS*
Wang, Y., Zhang, C., Pennington, E. A., He, L., Yang, J., Yu, X., Liu, Y., Seinfeld, J. H.
2024; 62 (4)
- **Distinctive aerosol-cloud-precipitation interactions in marine boundary layer clouds from the ACE-ENA and SOCRATES aircraft field campaigns** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Zheng, X., Dong, X., Xi, B., Logan, T., Wang, Y.
2024; 24 (18): 10323-10347
- **Accounting for Black Carbon Mixing State, Nonsphericity, and Heterogeneity Effects in Its Optical Property Parameterization in a Climate Model** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Chen, G., Liu, C., Wang, J., Yin, Y., Wang, Y.
2024; 129 (16)
- **Leading role of Saharan dust on tropical cyclone rainfall in the Atlantic Basin.** *Science advances*
Zhu, L., Wang, Y., Chavas, D., Johncox, M., Yung, Y. L.
2024; 10 (30): eadn6106
- **Intense formation of secondary ultrafine particles from Amazonian vegetation fires and their invigoration of deep clouds and precipitation** *ONE EARTH*
Shrivastava, M., Fan, J., Zhang, Y., Rasool, Q. Z., Zhao, B., Shen, J., Pierce, J. R., Jathar, S. H., Akherati, A., Zhang, J., Zaveri, R. A., Gaudet, B., Liu, et al
2024; 7 (6)
- **Effects of smoke on marine low clouds and radiation during 2020 western United States wildfires** *ATMOSPHERIC RESEARCH*
Dong, L., Wang, M., Rosenfeld, D., Zhu, Y., Wang, Y., Dong, X., Liu, Z., Wang, H., Zeng, Y., Cao, Y., Lu, X., Liu, J., Shen, et al
2024; 302
- **Distinct PM_{2.5}-Related Near-Term Climate Penalties Induced by Different Clean Air Measures in China** *GEOPHYSICAL RESEARCH LETTERS*
Gao, D., Zhao, B., Wang, S., Shen, J., Wang, Y., Zhou, C., Jiang, J., Wu, Q., Li, S., Sun, Y., He, Y., Zhu, Y., Jiang, et al
2024; 51 (8)
- **An updated modeling framework to simulate Los Angeles air quality - Part 1: Model development, evaluation, and source apportionment** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Pennington, E. A., Wang, Y., Schulze, B. C., Seltzer, K. M., Yang, J., Zhao, B., Jiang, Z., Shi, H., Venecek, M., Chau, D., Murphy, B. N., Kenseth, C. M., Ward, et al
2024; 24 (4): 2345-2363
- **An updated modeling framework to simulate Los Angeles air quality - Part 1: Model development, evaluation, and source apportionment.** *Atmospheric chemistry and physics*
Pennington, E. A., Wang, Y., Schulze, B. C., Seltzer, K. M., Yang, J., Zhao, B., Jiang, Z., Shi, H., Venecek, M., Chau, D., Murphy, B. N., Kenseth, C. M., Ward, et al
2024; 24 (4): 2345-2363
- **Radiative and Microphysical Impacts of the Saharan Dust on Two Concurrent Tropical Cyclones: Danielle and Earl (2010)** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Pan, B., Wang, Y., Lin, Y., Hsieh, J., Lavallee, M., Zhao, L., Zhang, R.
2024; 129 (2)
- **Dynamic Traffic Data in Machine-Learning Air Quality Mapping Improves Environmental Justice Assessment.** *Environmental science & technology*

Wen, Y., Zhang, S., Wang, Y., Yang, J., He, L., Wu, Y., Hao, J.
2024

- **Microphysical complexity of black carbon particles restricts their warming potential** *ONE EARTH*
Huang, X., Peng, Y., Wei, J., Peng, J., Lin, X., Tang, M., Cheng, Y., Men, Z., Fang, T., Zhang, J., He, L., Cao, L., Liu, et al
2024; 7 (1)
- **Consumption Based Source Apportionment Indicates Different Regional Contributions to O₃ Concentrations and Health Effects** *ENGINEERING*
Zhu, S., Wang, P., Wang, S., Geng, G., Zhao, H., Wang, Y., Zhang, H.
2023; 28: 130-138
- **The weekly cycle of photosynthesis in Europe reveals the negative impact of particulate pollution on ecosystem productivity.** *Proceedings of the National Academy of Sciences of the United States of America*
He, L., Rosa, L., Lobell, D. B., Wang, Y., Yin, Y., Doughty, R., Yao, Y., Berry, J. A., Frankenberg, C.
2023; 120 (49): e2306507120
- **Increased importance of aerosol-cloud interactions for surface PM_{2.5} pollution relative to aerosol-radiation interactions in China with the anthropogenic emission reductions** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Gao, D., Zhao, B., Wang, S., Wang, Y., Gaudet, B., Zhu, Y., Wang, X., Shen, J., Li, S., He, Y., Yin, D., Dong, Z.
2023; 23 (22): 14359-14373
- **Assessing the destructiveness of tropical cyclones induced by anthropogenic aerosols in an atmosphere-ocean coupled framework** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Lin, Y., Wang, Y., Hsieh, J., Jiang, J. H., Su, Q., Zhao, L., Lavallee, M., Zhang, R.
2023; 23 (21): 13835-13852
- **An Aerosol Optical Module With Observation-Constrained Black Carbon Properties for Global Climate Models** *JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS*
Chen, G., Wang, J., Wang, Y., Wang, J., Jin, Y., Cheng, Y., Yin, Y., Liao, H., Ding, A., Wang, S., Hao, J., Liu, C.
2023; 15 (10)
- **Characterization of the aerosol vertical distributions and their impacts on warm clouds based on multi-year ARM observations.** *The Science of the total environment*
Lin, Y., Takano, Y., Gu, Y., Wang, Y., Zhou, S., Zhang, T., Zhu, K., Wang, J., Zhao, B., Chen, G., Zhang, D., Fu, R., Seinfeld, et al
2023; 904: 166582
- **Insights of warm-cloud biases in Community Atmospheric Model 5 and 6 from the single-column modeling framework and Aerosol and Cloud Experiments in the EasternNorth Atlantic (ACE-ENA) observations** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Wang, Y., Zheng, X., Dong, X., Xi, B., Yung, Y. L.
2023; 23 (15): 8591-8605
- **Elucidating climatic drivers of photosynthesis by tropical forests** *GLOBAL CHANGE BIOLOGY*
Wang, Y., Liu, J., Wennberg, P. O., He, L., Bonal, D., Kohler, P., Frankenberg, C., Sitch, S., Friedlingstein, P.
2023
- **Vertical Dependency of Aerosol Impacts on Local Scale Convective Precipitation** *GEOPHYSICAL RESEARCH LETTERS*
Sun, Y., Wang, Y., Zhao, C., Zhou, Y., Yang, Y., Yang, X., Fan, H., Zhao, X., Yang, J.
2023; 50 (2)
- **New Progress and Challenges in Cloud-Aerosol-Radiation-Precipitation Interactions: Preface for a Special Issue** *ADVANCES IN ATMOSPHERIC SCIENCES*
Zhao, C., Wang, Y., Letu, H.
2022; 39 (12): 1983-1985
- **Marked Impacts of Pollution Mitigation on Crop Yields in China** *EARTHS FUTURE*
He, L., Wei, J., Wang, Y., Shang, Q., Liu, J., Yin, Y., Frankenberg, C., Jiang, J. H., Li, Z., Yung, Y. L.
2022; 10 (11)
- **Notable impact of wildfires in the western United States on weather hazards in the central United States** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Zhang, Y., Fan, J., Shrivastava, M., Homeyer, C. R., Wang, Y., Seinfeld, J. H.
2022; 119 (44): e2207329119
- **Aerosol-Cloud-Precipitation Interactions in a Closed-cell and Non-homogenous MBL Stratocumulus Cloud** *ADVANCES IN ATMOSPHERIC SCIENCES*
Zheng, X., Dong, X., Ward, D. M., Xi, B., Wu, P., Wang, Y.
2022; 39 (12): 2107-2123
 - **Compensating Errors in Cloud Radiative and Physical Properties over the Southern Ocean in the CMIP6 Climate Models** *ADVANCES IN ATMOSPHERIC SCIENCES*
Zhao, L., Wang, Y., Zhao, C., Dong, X., Yung, Y. L.
2022; 39 (12): 2156-2171
 - **This is FAST: multivariate Full-permutAtion based Stochastic forest method-improving the retrieval of fine-mode aerosol microphysical properties with multi-wavelength lidar** *REMOTE SENSING OF ENVIRONMENT*
Wang, N., Xiao, D., Veselovskii, I., Wang, Y., Russell, L. M., Zhao, C., Guo, J., Li, C., Gross, S., Liu, X., Ni, X., Tan, L., Liu, et al
2022; 280
 - **The Hunga Tonga-Hunga Ha'apai Hydration of the Stratosphere** *GEOPHYSICAL RESEARCH LETTERS*
Millan, L., Santee, M. L., Lambert, A., Livesey, N. J., Werner, F., Schwartz, M. J., Pumphrey, H. C., Manney, G. L., Wang, Y., Su, H., Wu, L., Read, W. G., Froidevaux, et al
2022; 49 (13): e2022GL099381
 - **Formation, radiative forcing, and climatic effects of severe regional haze** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Lin, Y., Wang, Y., Pan, B., Hu, J., Guo, S., Zamora, M., Tian, P., Su, Q., Ji, Y., Zhao, J., Gomez-Hernandez, M., Hu, M., Zhang, et al
2022; 22 (7): 4951-4967
 - **Dual-field-of-view high-spectral-resolution lidar: Simultaneous profiling of aerosol and water cloud to study aerosol-cloud interaction** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wang, N., Zhang, K., Shen, X., Wang, Y., Li, J., Li, C., Mao, J., Malinka, A., Zhao, C., Russell, L. M., Guo, J., Gross, S., Liu, et al
2022; 119 (10): e2110756119
 - **Environmental effects on aerosol-cloud interaction in non-precipitating marine boundary layer (MBL) clouds over the eastern North Atlantic** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Zheng, X., Xi, B., Dong, X., Wu, P., Logan, T., Wang, Y.
2022; 22 (1): 335-354
 - **Health risk and disease burden attributable to long-term global fine-mode particles** *CHEMOSPHERE*
Yang, X., Wang, Y., Zhao, C., Fan, H., Yang, Y., Chi, Y., Shen, L., Yan, X.
2022; 287: 132435
 - **From COVID-19 to future electrification: Assessing traffic impacts on air quality by a machine-learning model** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Yang, J., Wen, Y., Wang, Y., Zhang, S., Pinto, J. P., Pennington, E. A., Wang, Z., Wu, Y., Sander, S. P., Jiang, J. H., Hao, J., Yung, Y. L., Seinfeld, et al
2021; 118 (26)
 - **Multigeneration Production of Secondary Organic Aerosol from Toluene Photooxidation** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Li, Y., Zhao, J., Wang, Y., Seinfeld, J. H., Zhang, R.
2021; 55 (13): 8592-8603
 - **The Role of Primary Emission and Transboundary Transport in the Air Quality Changes During and After the COVID-19 Lockdown in China** *GEOPHYSICAL RESEARCH LETTERS*
Fan, H., Wang, Y., Zhao, C., Yang, Y., Yang, X., Sun, Y., Jiang, S.
2021; 48 (7): e2020GL091065
 - **New Observational Constraints on Warm Rain Processes and Their Climate Implications** *GEOPHYSICAL RESEARCH LETTERS*
Dong, X., Wu, P., Wang, Y., Xi, B., Huang, Y.
2021; 48 (6)
 - **Unexpected Oligomerization of Small α -Dicarbonyls for Secondary Organic Aerosol and Brown Carbon Formation** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*

- Li, Y., Ji, Y., Zhao, J., Wang, Y., Shi, Q., Peng, J., Wang, Y., Wang, C., Zhang, F., Wang, Y., Seinfeld, J. H., Zhang, R.
2021; 55 (8): 4430-4439
- **Insights into particulate matter pollution in the North China Plain during wintertime: local contribution or regional transport?** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Wu, J., Bei, N., Wang, Y., Li, X., Liu, S., Liu, L., Wang, R., Yu, J., Le, T., Zuo, M., Shen, Z., Cao, J., Tie, et al
2021; 21 (3): 2229-2249
 - **Author Correction: Near-real-time monitoring of global CO₂ emissions reveals the effects of the COVID-19 pandemic.** *Nature communications*
Liu, Z., Ciais, P., Deng, Z., Lei, R., Davis, S. J., Feng, S., Zheng, B., Cui, D., Dou, X., Zhu, B., Guo, R., Ke, P., Sun, et al
2020; 11 (1): 6292
 - **Impacts of long-range transport of aerosols on marine-boundary-layer clouds in the eastern North Atlantic** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Wang, Y., Zheng, X., Dong, X., Xi, B., Wu, P., Logan, T., Yung, Y. L.
2020; 20 (23): 14741-14755
 - **Quantifying Long-Term Seasonal and Regional Impacts of North American Fire Activity on Continental Boundary Layer Aerosols and Cloud Condensation Nuclei** *EARTH AND SPACE SCIENCE*
Logan, T., Dong, X., Xi, B., Zheng, X., Wang, Y., Wu, P., Marlow, E., Maddux, J.
2020; 7 (12)
 - **Air quality impact of the Northern California Camp Fire of November 2018** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Rooney, B., Wang, Y., Jiang, J. H., Zhao, B., Zeng, Z., Seinfeld, J. H.
2020; 20 (23): 14597-14616
 - **Determinant Role of Aerosols From Industrial Sources in Hurricane Harvey's Catastrophe** *GEOPHYSICAL RESEARCH LETTERS*
Pan, B., Wang, Y., Logan, T., Hsieh, J., Jiang, J. H., Li, Y., Zhang, R.
2020; 47 (23)
 - **Near-real-time monitoring of global CO₂ emissions reveals the effects of the COVID-19 pandemic** *NATURE COMMUNICATIONS*
Liu, Z., Ciais, P., Deng, Z., Lei, R., Davis, S. J., Feng, S., Zheng, B., Cui, D., Dou, X., Zhu, B., Guo, R., Ke, P., Sun, et al
2020; 11 (1): 5172
 - **Tracking the atmospheric pulse of a North American megacity from a mountaintop remote sensing observatory** *REMOTE SENSING OF ENVIRONMENT*
Zeng, Z., Wang, Y., Pongetti, T. J., Gong, F., Newman, S., Li, Y., Natraj, V., Shia, R., Yung, Y. L., Sander, S. P.
2020; 248
 - **Retrieval of Ice-Over-Water Cloud Microphysical and Optical Properties Using Passive Radiometers** *GEOPHYSICAL RESEARCH LETTERS*
Teng, S., Liu, C., Zhang, Z., Wang, Y., Sohn, B., Yung, Y. L.
2020; 47 (16)
 - **Unexpected air pollution with marked emission reductions during the COVID-19 outbreak in China** *SCIENCE*
Le, T., Wang, Y., Liu, L., Yang, J., Yung, Y. L., Li, G., Seinfeld, J. H.
2020; 369 (6504): 702+
 - **Identifying airborne transmission as the dominant route for the spread of COVID-19** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Zhang, R., Li, Y., Zhang, A. L., Wang, Y., Molina, M. J.
2020; 117 (26): 14857-14863
 - **Carbenium ion-mediated oligomerization of methylglyoxal for secondary organic aerosol formation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ji, Y., Shi, Q., Li, Y., An, T., Zheng, J., Peng, J., Gao, Y., Chen, J., Li, G., Wang, Y., Zhang, F., Zhang, A. L., Zhao, et al
2020; 117 (24): 13294-13299
 - **Reduced European aerosol emissions suppress winter extremes over northern Eurasia (vol 10, pg 225, 2020)** *NATURE CLIMATE CHANGE*
Wang Yuan, Le Tianhao, Chen Gang, Yung, Y. L., Su Hui, Seinfeld, J. H., Jiang, J. H.
2020; 10 (6): 582

- **Aerosol-photolysis interaction reduces particulate matter during wintertime haze events.** *Proceedings of the National Academy of Sciences of the United States of America*
Wu, J., Bei, N., Hu, B., Liu, S., Wang, Y., Shen, Z., Li, X., Liu, L., Wang, R., Liu, Z., Cao, J., Tie, X., Molina, et al
2020; 117 (18): 9755-9761
- **Evaluation of Cloud Microphysical Properties Derived From MODIS and Himawari-8 Using In Situ Aircraft Measurements Over the Southern Ocean** *EARTH AND SPACE SCIENCE*
Zhao, L., Zhao, C., Wang, Y., Wang, Y., Ya, Y.
2020; 7 (5)
- **Impact of Cloud Ice Particle Size Uncertainty in a Climate Model and Implications for Future Satellite Missions** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Wang, Y., Su, H., Jiang, J. H., Xu, F., Yung, Y. L.
2020; 125 (6)
- **Investigation of aerosol-cloud interactions under different absorptive aerosol regimes using Atmospheric Radiation Measurement (ARM) southern Great Plains (SGP) ground-based measurements** *ATMOSPHERIC CHEMISTRY AND PHYSICS*
Zheng, X., Xi, B., Dong, X., Logan, T., Wang, Y., Wu, P.
2020; 20 (6): 3483-3501
- **Spatiotemporal Variations of Precipitation in China Using Surface Gauge Observations from 1961 to 2016** *ATMOSPHERE*
Su, Y., Zhao, C., Wang, Y., Ma, Z.
2020; 11 (3)
- **An unexpected catalyst dominates formation and radiative forcing of regional haze** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Zhang, F., Wang, Y., Peng, J., Chen, L., Sun, Y., Duan, L., Ge, X., Li, Y., Zhao, J., Liu, C., Zhang, X., Zhang, G., Pan, et al
2020; 117 (8): 3960-3966
- **Remarkable nucleation and growth of ultrafine particles from vehicular exhaust.** *Proceedings of the National Academy of Sciences of the United States of America*
Guo, S., Hu, M., Peng, J., Wu, Z., Zamora, M. L., Shang, D., Du, Z., Zheng, J., Fang, X., Tang, R., Wu, Y., Zeng, L., Shuai, et al
2020; 117 (7): 3427-3432
- **Reduced European aerosol emissions suppress winter extremes over northern Eurasia** *NATURE CLIMATE CHANGE*
Wang, Y., Le, T., Chen, G., Yung, Y. L., Su, H., Seinfeld, J. H., Jiang, J. H.
2020; 10 (3): 225-+
- **East Asian Study of Tropospheric Aerosols and their Impact on Regional Clouds, Precipitation, and Climate (EAST-AIR_{CPC})** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Li, Z., Wang, Y., Guo, J., Zhao, C., Cribb, M., Dong, X., Fan, J., Gong, D., Huang, J., Jiang, M., Jiang, Y., Lee, S., Li, et al
2019; 124 (23): 13026-13054
- **Climate Impacts of the Biomass Burning in Indochina on Atmospheric Conditions over Southern China** *AEROSOL AND AIR QUALITY RESEARCH*
Huang, L., Lin, W., Li, F., Wang, Y., Jiang, B.
2019; 19 (12): 2707-2720
- **The climatology and trend of black carbon in China from 12-year ground observations** *CLIMATE DYNAMICS*
Zhang, Y., Li, Y., Guo, J., Wang, Y., Chen, D., Chen, H.
2019; 53 (9-10): 5881-5892
- **Interpretation of the Top-of-Atmosphere Energy Flux for Future Arctic Warming** *SCIENTIFIC REPORTS*
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