

Jianping Huang

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Profile

Jianping Huang is a distinguished professor and founder of the College of Atmospheric Sciences, Lanzhou University, China. His research focuses on semi-arid climate change by combining observations, numerical modeling, and theoretical studies. He established the theoretical framework of a semi-arid climate change mechanism that emphasizes the effects of aerosol-cloud-precipitation, land-atmosphere and ocean-atmosphere interactions on climate change in semi-arid regions. In recent years, Huang has pioneered a series of studies on oxygen cycle and land cancer, which opened up a new field of climate change research. Additionally, Huang is among the most highly cited researchers for three consecutive years in 2021, 2022 and 2023 according to Clarivate, with an H-Index of 70. He has received several awards for his research achievements, including the Second Prize of National Natural Science Award in 2013 and the First National Innovation Award in 2017.

Research Interests

climate change; dryland climate; dust aerosol; carbon cycle; oxygen cycle

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Education

09/1986–12/1988	Climatology, Lanzhou University, China, Ph.D.
09/1984–08/1986	Meteorology, Institute of Atmospheric Physics, Chinese Academy of Sciences, China, M.S.
09/1978–07/1982	Meteorology, Nanjing University of Information Science & Technology, China, B.S.

Experience

12/2018–Present	Collaborative Innovation Center for Western Ecological Safety (CIWES), Lanzhou University, China, Director
05/2010–Present	Key Laboratory of Semi-Arid Climate Change, Lanzhou University,

	China, Director
07/2004–Present	College of Atmospheric Sciences, Lanzhou University, China, Distinguished Professor
07/2004–09/2018	College of Atmospheric Sciences, Lanzhou University, China, Dean
08/2000–02/2003	NASA Langley Research Center, USA, Visiting Research Fellow
11/1996–07/2000	Environment Canada, Canada, Visiting Research Fellow
04/1995–10/1996	University of Toronto, Canada, Visiting Scholar
12/1992–03/1995	Texas A&M University, USA, Visiting Scholar
12/1990–11/1992	Department of Geophysical Sciences, Peking University, China, Associate Professor
12/1988–11/1990	Department of Geophysical Sciences, Peking University, China, Post-Doctoral Research Fellow

Selected Honors

Second Prize of Outstanding Achievement Award for Scientific Research in Universities (2020)
 First Prize of Science and Technology Progress Award of Gansu Province (2018)
 National Innovation Award (2017)
 Second Prize of National Natural Science Award (2013)
 First Prize of Natural Science Award of Gansu Province (2012)
 Distinguished Professor of Changjiang Scholar Program (2008)

Professional Society Fellowships and Memberships

Fellow of The World Academy of Sciences (2024)
 Editor of *Fundamental Research* (2024)
 Editor of *Science Bulletin* (2022)
 Advisory Editor of *Research* (2022)
 Academician of Chinese Academy of Sciences (2021)
 Editor of *Journal of Meteorological Research* (2017)
 Editor of *Atmospheric Chemistry and Physics* (2015)
 Editor of *Science China Earth Sciences* (2013)
 Executive Member of Chinese Meteorological Society (2010)
 Member of China National Committee for IAMAS (2009)

Selected Publications

(* indicates that Huang is the corresponding author)

1. Liu X., **J. Huang***, C. Li, et al. 2021: The role of seasonality in the spread of COVID-19 pandemic. *Environmental Research*. 195, 110874. DOI: 10.1016/j.envres.2021.110874.
2. Lian X., **J. Huang***, R. Huang, et al. 2020: Impact of city lockdown on the air quality of COVID-19-hit of Wuhan city. *Science of the Total Environment*. 742, 140556. DOI: 10.1016/j.scitotenv.2020.140556.

3. **Huang J.***, G. Zhang, Y. Zhang, et al. 2020: Global desertification vulnerability to climate change and human activities. *Land Degradation & Development*. 31 (11), 1380-1391. DOI: 10.1002/ldr.3556.
4. **Huang J.***, H. Yu, A. Dai, et al. 2017: Drylands face potential threat under 2°C global warming target. *Nature Climate Change*. 7, 417-422. DOI: 10.1038/NCLIMATE3275.
5. **Huang J.**, Y. Li, C. Fu, et al. 2017: Dryland climate change: Recent progress and challenges. *Reviews of Geophysics*. 55, 719-778. DOI: 10.1002/2016RG000550.
6. **Huang J.***, H. Yu, X. Guan, et al. 2016: Accelerated dryland expansion under climate change. *Nature Climate Change*. 6, 166-171. DOI: 10.1038/nclimate2837.
7. **Huang J.***, M. Ji, Y. Xie, et al. 2015: Global semi-arid climate change over last 60 years. *Climate Dynamics*. 46 (3-4), 1131-1150. DOI:10.1007/s00382-015-2636-8.
8. **Huang J.***, T. Wang, W. Wang, et al. 2014: Climate effects of dust aerosols over East Asian arid and semiarid regions. *Journal of Geophysical Research: Atmospheres*. 119 (19), 11398-11416. DOI:10.1002/2014JD021796.
9. Wang S., **J. Huang***, Y. He, and Y. Guan. 2014: Combined effects of the Pacific Decadal Oscillation and El Niño-Southern Oscillation on global land dry-wet changes. *Scientific Reports*. 4, 6651. DOI: 10.1038/srep06651.
10. Wang X., S. Doherty, and **J. Huang***. 2013: Black carbon and other light-absorbing impurities in snow across Northern China. *Journal of Geophysical Research: Atmospheres*. 118 (13), 1471-1492. DOI: 10.1029/2012JD018291.
11. **Huang J.***, X. Guan, and F. Ji. 2012: Enhanced cold-season warming in semi-arid regions. *Atmospheric Chemistry and Physics*. 12 (12), 5391-5398. DOI: 10.5194/acp-12-5391-2012.
12. **Huang J.***, P. Minnis, H. Yan, et al. 2010: Dust aerosol effect on semi-arid climate over Northwest China detected from A-Train satellite measurements. *Atmospheric Chemistry and Physics*. 10, 6863-6872. DOI: 10.5194/acp-10-6863-2010.
13. **Huang J.***, Q. Fu, J. Su, et al. 2009: Taklimakan dust aerosol radiative heating derived from CALIPSO observations using the Fu-Liou radiation model with CERES constraints. *Atmospheric Chemistry and Physics*. 9 (12), 4011-4021. DOI:10.5194/acp-9-4011-2009.
14. **Huang J.***, P. Minnis, B. Chen, et al. 2008: Long-range transport and vertical structure of Asian dust from CALIPSO and surface measurements during PACDEX. *Journal of Geophysical Research: Atmospheres*. 113 (D23). DOI: 10.1029/2008JD010620.
15. **Huang J.***, W. Zhang, J. Zuo, et al. 2008: An overview of the semi-arid climate and environment research observatory over the Loess Plateau. *Advances in Atmospheric*

Sciences. 25 (6), 1-16. DOI: 10.1007/s00376-008-0906-7.

16. Wang X., **J. Huang***, M. Ji, and K. Higuchi. 2008: Variability of East Asia dust events and their long-term trend. *Atmospheric Environment*. 42 (13), 3156-3165. DOI: 10.1016/j.atmosenv.2007.07.046.
17. **Huang J.***, P. Minnis, Y. Yi, et al. 2007: Summer dust aerosols detected from CALIPSO over the Tibetan Plateau. *Geophysical Research Letters*. 34, L18805. DOI: 10.1029/2007GL029938.
18. **Huang J.***, B. Lin, P. Minnis, et al. 2006: Satellite-based assessment of possible dust aerosols semi-direct effect on cloud water path over East Asia. *Geophysical Research Letters*. 33 (19). DOI: 10.1029/2006GL026561.
19. **Huang J.***, P. Minnis, B. Lin, et al. 2006: Possible influences of Asian dust aerosols on cloud properties and radiative forcing observed from MODIS and CERES. *Geophysical Research Letters*. 33, L06824. DOI: 10.1029/2005GL024724.
20. **Huang J.***, K. Higuchi, and A. Shabbar. 1998: The Relationship between the North Atlantic Oscillation and El Nino-Southern Oscillation. *Geophysical Research Letters*. 25 (14), 2707-2710. DOI: 10.1029/98GL01936.