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Research Interests:

Atmospheric composition and Asian monsoon interaction, stratospheric physics and chemistry, sounding atmospheric composition

Publications:

1. **Bian, J.**, D. Li, Z. Bai, Q. Li, D. Lyu, and X. Zhou, **2020**: Transport of Asian surface pollutants to the global stratosphere from the Tibetan Plateau region during the Asian summer monsoon, *Natl Sci Rev*, nwaa005, <https://doi.org/10.1093/nsr/nwaa005>.
2. Li, D., B. Vogel, R. Müller, **J. Bian***, G. Günther, F. Plöger, Q. Li, J. Zhang, Z. Bai, H. Vömel, and Riese, M., **2020**: Dehydration and low ozone in the tropopause layer over the Asian monsoon caused by tropical cyclones: Lagrangian transport calculations using ERA-Interim and ERA5 reanalysis data, *Atmos. Chem. Phys.*, <https://doi.org/10.5194/acp-2019-816>, accepted.
3. Chen, L., **J. Bian***, Y. Liu, Z. Bai, and S. Qiao, **2019**: Statistical analysis of inertial gravity wave parameters in the lower stratosphere over Northern China, *Climate Dynamics*, 52, 563–575, <https://doi.org/10.1007/s00382-018-4156-9>.
4. Zhang, J., X. Wu, S. Liu, Z. Bai, X. Xia, B. Chen, X. Zong, and **J. Bian**, **2019**: In situ measurements and backward-trajectory analysis of high-concentration, fine-mode aerosols in the UTLS over the Tibetan Plateau, *Environ. Res. Lett.*, 14, 124068.
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7. Fan, Q.-J., **J.-C. Bian***, and L. L. Pan, **2017**: Stratospheric entry point for upper- tropospheric air within the Asian summer monsoon anticyclone. *Science China Earth Sciences*, 60: 1685–1693, doi: 10.1007/s11430-016-9073-5.
 8. Fan, Q.-J., **J.-C. Bian***, and L. L. Pan, **2017**: Atmospheric boundary layer sources for upper tropospheric air over the Asian summer monsoon region, *Atmospheric and Oceanic Science Letters*, 10:5, 358-363, DOI: 10.1080/16742834.2017.1344089.
 9. Li, D.*, B. Vogel, **J. Bian***, R. Müller, L. L. Pan, G. Günther, Z. Bai, Q. Li, J. Zhang, Q. Fan, and H. Vömel, **2017**: Impact of typhoons on the composition of the upper troposphere within the Asian summer monsoon anticyclone: the SWOP campaign in Lhasa 2013, *Atmos. Chem. Phys.*, 17, 4657-4672, doi:10.5194/acp-17-4657-2017.
 10. Gu, Y., H. Liao, and **J. Bian**, **2016**: Summertime nitrate aerosol in the upper troposphere and lower stratosphere over the Tibetan Plateau and the South Asian summer monsoon region, *Atmos. Chem. Phys.*, 16, 6641-6663, doi:10.5194/acp-16-6641-2016.
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