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受教育经历

2014.9-2019.6, 兰州大学, 气候学, 硕士、博士
2010.9-2014.6, 兰州大学, 大气科学, 学士

参加工作经历

2019.7 - 至今, 盐城工学院, 环境学院, 讲 师

科学研究项目与论文、专利成果

【科研项目】

1. 国家自然科学基金面上项目, 41475068, 构建无导数最优化方法的简化模式的反问题研究, 2015.01-2018.12, 已结题, 参加
2. 国家自然科学基金面上项目, 41775069, 全球大气环流三型分解的非线性动力学理论研究, 2018.01-2021.12, 在研, 参加
3. 国家重点研发计划, 2017YFC1502305, 多模式集合气候预测方法和应用研究第五课题, 2018.01-2022.06, 在研, 参加
4. 国家自然科学基金青年基金项目, 42005012, 人类活动对季节平均局地Hadley环流边界向极扩张的贡献和机理研究, 2021.01-2023.12, 在研, 主持
5. 江苏省自然科学基金青年基金项目, BK20201058, 外强迫和自然变率对局地Hadley环流边界向极扩张相对贡献的研究, 2020.7-2023.6, 在研, 主持
6. 中国气象局干旱气象科学研究基金, IAM202005, 利用CMIP6资料对西北干旱半干旱区极端事件的模拟和预估的研究, 2020.11-2022.10, 在研, 主持

【发表论文】

1. **Cheng Jianbo**, Zhao Yuheng, Zhi Rong*, Feng Guolin*. (2022) Analysis of the July 2021 extreme precipitation in Henan using the novel moisture budget equation. **Theoretical and Applied Climatology**. <https://doi.org/10.1007/s00704-022-04022-7>.
2. Zhao, Y., **Cheng, J.***, Feng, G. *, Zhi, R., Zheng, Z., Zhang, Z. (2022) Analysis of the atmospheric direct dynamic source for the westerly extended WPSH and record-breaking Plum Rain in 2020. **Clim Dyn** <https://doi.org/10.1007/s00382-022-06186-4>
3. Zhao, Y., **Cheng, J.***, Feng, G.*, Zheng, Z., Zhi, R., Zhang, Z., Yan, J., Zuo, D. (2022) Dominant Role of Meridional Circulation in Regulating the Anomalous Subsidence of the Western Pacific Subtropical High in Early Summer 2020. **Frontiers in Physics** 10: 713087.
4. **成剑波**, 左冬冬*, 颜鹏程. 地面以下虚假径向风场对非洲地区局地Hadley环流的影响. **干旱气象**, 2021, 39(06): 900-910.
5. Han, Z.*, Zhang, Q.*, Li, Q., Feng, R., Haywood, A. M., Tindall, J. C., Hunter, S. J., Otto-Bliesner, B. L., Brady, E. C., Rosenbloom, N., Zhang, Z., Li, X., Guo, C., Nisancioglu, K. H., Stepanek, C., Lohmann, G., Sohl, L. E., Chandler, M. A., Tan, N., Ramstein, G., Baatsen, M. L. J., von der Heydt, A. S., Chandan, D., Peltier, W. R., Williams, C. J. R., Lunt, D. J., **Cheng, J.**, Wen, Q., and Burls, N. J. (2021) Evaluating the large-scale hydrological cycle response within the Pliocene Model Intercomparison Project Phase 2 (PlioMIP2) ensemble. **Climate of the Past** 17: 2537–2558.
6. Zhao, Y., Zhen, Z.*, Zhi, R., Feng, G., **Cheng, J.** (2021) The zonal gradient structures of wintertime SST anomalies in

the equatorial Pacific and their connection to the Walker circulation. **Climate Dynamics (Accept Online)**

7. Wen, Q.*, Han, Z., Yang, H., **Cheng, J.**, Liu, Z., Liu, J. (2021) Influence of Tibetan Plateau on the North American summer monsoon precipitation. **Climate Dynamics** 7: 3093–3110.
8. Qiao, S., Chen, D., Wang, B., Cheung, H., Liu, F., **Cheng, J.**, Tang, S., Zhang, Z., Feng, G.*, Dong, W. (2021) The longest 2020 Meiyu season over the past 60 years: Subseasonal perspective and its predictions. **Geophysical Research Letters** 48(9): e2021GL093596.
9. **Cheng, J.**, Hu, S.*, Gao, C., Hou, X., Xu, Z., & Feng, G. (2020) On the discrepancies in the regional changes in the annual mean Hadley circulation among different regions and between CMIP5 models and reanalyses. **Theoretical and Applied Climatology** 141: 1475–1491.
10. **Cheng, J.**, Xu, Z.*, & Hou, X. (2020) Impact of Fake Below-Ground Meridional Wind on Hadley Circulation: Climatology, Interannual Variability, and Long-Term Trends. **Atmosphere** 11: 446.
11. Hu, P., **Cheng, J.**, Feng, G., DOGAR, M., & Gong, Z.* (2020) The mechanism of EAP-EU combined impact on summer rainfall over North Asia. **Theoretical and Applied Climatology** 142: 117–128.
12. Hu, P., Feng, G., DOGAR, M., **Cheng, J.**, Gong, Z.* (2020) Joint Effect of East Asia/Pacific and Eurasian Teleconnections on the Summer Precipitation Pattern in North Asia. **Journal of Meteorological Research** 34: 559–574.
13. Li, S., Feng, G.*, Hou, W., **Cheng, J.** (2019) Characteristics of atmospheric circulation patterns over East Asia and their impacts on precipitation in summer. **Climate Research** 78: 117–133.
14. **Cheng, J.**, Xu, Z., Hu, P., Hou, X., Gao, C., Hu, S., & Feng, G.* (2018). Significant Role of Orography in Shaping the Northern Hadley Circulation and Its Poleward Expansion During Boreal Summer. **Geophysical Research Letters** 45(13): 6619–6627.
15. **Cheng, J.**, Gao, C., Hu, S.*, & Feng, G. (2018) High-stability algorithm for the three-pattern decomposition of global atmospheric circulation. **Theoretical and Applied Climatology** 133(3–4): 851–866.
16. **Cheng, J.**, Hu, S.*, & Chou, J. (2018). The double-layer structure of the Hadley circulation and its interdecadal evolution characteristics. **Journal of Tropical Meteorology** 24 (4): 220–231.
17. Hu, S.*, **Cheng, J.**, Xu, M., & Chou, J. (2018) Three-pattern decomposition of global atmospheric circulation: part II—dynamical equations of horizontal, meridional and zonal circulations. **Climate Dynamics** 50 (7–8): 2673–2686.
18. Hou, X., **Cheng, J.**, Hu, S.*, & Feng, G. (2018) Interdecadal Variations in the Walker Circulation and Its Connection to Inhomogeneous Air Temperature Changes from 1961–2012. **Atmosphere** 9(12): 469.
19. Hu, S.*, Chou, J., & **Cheng, J.** (2018) Three-pattern decomposition of global atmospheric circulation: part I—decomposition model and theorems. **Climate Dynamics** 50 (7–8): 2355–2368.
20. Qiao, S., Hu, P., Feng, T., **Cheng, J.**, Han, Z., & Gong, Z.*, et al. (2018) Enhancement of the relationship between the winter arctic oscillation and the following summer circulation anomalies over central east asia since the early 1990s. **Climate Dynamics** 50 (9–10): 3485–3503.
21. Hu, S.*, **Cheng, J.**, & Chou, J. (2017) Novel three-pattern decomposition of global atmospheric circulation: generalization of traditional two-dimensional decomposition. **Climate Dynamics** 49 (9–10): 3573–3586.
22. 成剑波, 胡淑娟*, 丑纪范. (2016) Hadley环流双层结构及其年代际演变特征. **热带气象学报** 32 (2): 207–218.