# ISI-Indexed Publications (Jianhui Wei, until 17-May-2022)

25. Xu, W., X. Lei, S. Chen, M. Zhang, L. Jiang, R. Bao, X. Guan, M. Ma, **J. Wei**, A. Feng, L. Gao (2022): How well does the ERA5 reanalysis capture the extreme climate events over China? Part II: extreme temperature, *Frontiers in Environmental Science*, doi: 10.3389/fenvs.2022.921659

24. Xing, Z., Z. Yu, **J. Wei**, X. Zhang, M. Ma, P. Yi, Q. Ju, J. Wang, P. Laux, H. Kunstmann (2022): Lagged influence of ENSO on droughts over the Poyang Lake basin. *Atmospheric Research*, doi: 10.1016/j.atmosres.2022.106218

23. Gao, L., **J. Wei**, X. Lei, M. Ma, L. Wang, X. Guan, H. Lin (2022): Simulation of an extreme precipaition event using ensemble-based WRF model in the southeastern coastal region of China. *Atmosphere*, doi: 10.3390/atmos13020194

22. Gao, L., H. Deng, X. Lei, **J. Wei**, M. Ma, X. Chen, Z. Li, J. Gao, Y. Chen, M. Liu (2021): Evidence of elevation-dependent warming from the Chinese Tianshan Mountains. *The Cryosphere*, doi: 10.5194/tc-15-5765-2021

21. Zhang, Z., J. Arnault, P. Luax, N. Ma, **J. Wei**, H. Kunstmann (2021): Diurnal cycle of surface energy fluxes in high mountain terrain: High-resolution fully coupled atmosphere-hydrology modeling and impact of lateral flow. *Hydrological Processes*, doi: 10.1002/hyp.14454

20. Zhang, Z., J. Arnault, P. Luax, N. Ma, **J. Wei**, S. Shang, H. Kunstmann (2021): Convection-permitting fully coupled WRF-Hydro ensemble simulations in high mountain environment: Impact of boundary layer- and lateral flow parameterizations on land-atmosphere interactions, *Climate Dynamics*, doi: 10.1007%2Fs00382-021-06044-9

19. Arnault, J., G. Jung, B. Haese, B. Fersch, T. Rummler, **J. Wei**, Z. Zhang, H. Kunstmann (2021): A joint soil-vegetation-atmospheric modeling procedure of water isotopologues: Implementation and application to different climate zones with WRF-Hydro-iso. *Journal of Advances in Modelling Earth Systems*, doi: 10.1029/2021MS002562

18. Laux, P., D. Dieng, T. Portele, **J. Wei**, S. Shang, Z. Zhang, J. Arnault, C. Lorenz, H. Kunstmann (2021): A high resolution regional climate simulation physics ensemble for Sub-Saharan Africa, *Frontiers in Earth Science*, doi: doi: 10.3389/feart.2021.700249

17. Shang, S., G. Zhu, **J. Wei**, Y. Li, K. Zhang, R. Li, J. Arnault, Z. Zhang, P. Laux, Q. Yang, N. Dong, L. Gao, H. Kunstmann (2021): Associated atmospheric mechanisms for the increased cold season precipitation over the Three-River Headwaters region from the late 1980s, *Journal of Climate*, doi: 10.1175/JCLI-D-21-0077.1

16. **Wei, J.**, N. Dong, B. Fersch, J. Arnault, S. Wagner, P. Laux, Z. Zhang, Q. Yang, C. Yang, S. Shang, L. Gao, Z. Yu, H. Kunstmann (2021): Role of reservoir regulation and groundwater feedback in a simulated ground-soil-vegetion continnum: A long-term regional scale analysis, *Hydrologcial Processes*, doi: 10.1002/hyp.14341

15. Lei, X., L. Gao, M. Ma, **J. Wei**, L. Xu, L. Wang, H. Lin (2021): Does non-stationary of extreme precipiation exist in the Poyang Lake basin of China? *Journal of Hydrology: Regional Studies*, doi: 10.1016/j.ejrh.2021.100920

14. Lei, X., L. Gao, **J. Wei**, M. Ma, L. Xu, H. Fan, X. Li, J. Gao, X. Chen, W. Fang (2021): Contributions of climate change and human activities to runoff variations in the Poyang Lake Basin of China. *Physics and Chemistry of the Earth*, doi: 10.1016/j.pce.2021.103019

13. Arnault, J., B. Fersch, T. Rummler, M. Quenum, Z. Zhang, **J. Wei**, M. Graf, P. Laux, H. Kunstmann (2021): Lateral terrestrial water flow contribution to summer precipitation at continental scale – A comparison between Europe and West Africa with WRF-Hydro-tag ensembles. *Hydrological Processes*, doi: 10.1002/hyp.14183

12. Laux, P., R. Rötter, H. Webber, D. Dieng, J. Rahimi, **J. Wei**, B. Faye, A. Srivastava, J. Bliefernicht, O. Adeyeri, J. Arnault, H. Kunstmann (2021): To bias correct or not to bias correct? An agricultural impact modelers' perspective on regional climate model data, *Agricultural and Forest Meteorology*, doi: 10.1016/j.agrformet.2021.108406

11. Yang, Q., Z. Yu, **J. Wei**, C. Yang, H. Gu, M. Xiao, S. Shang, N. Dong, L. Gao, J. Arnault, P. Laux, H. Kunstmann (2021): Performance of the WRF model in simulating intense precipiation events over the Hanjiang River basin, China - A multi-physics ensemble approach, *Atmospheric Research*, doi: 10.1016/j.atmosres.2020.105206

10. Zhao, P., L. Gao, **J. Wei**, M. Ma, H. Deng, J. Gao, X. Chen (2020): Evaluation of ERA-Interim air temperature data over the Qilian Mountains. *Advances in Meteorology*, doi: 10.1155/2020/7353482

9. Dong, N., M. Yang, Z. Yu, **J. Wei**, C. Yang, Q. Yang, X. Liu, X. Lei, H. Wang, H. Kunstmann (2020): Water resources management in the Poyang Lake basin: Implications of reservoir network layout on streamflow and hydrologic alteration. *Journal of Hydrology*, doi: 10.1016/j.jhydrol.2020.124903

8. Dong, N., Z. Yu, H. Gu, C. Yang, M. Yang, **J. Wei**, H. Wang, J. Arnault, P. Laux, H. Kunstmann (2019): Climate-induced hydrological impact mitigated by a high-density reservoir network in the Poyang Lake basin. *Journal of Hydrology*, doi: 10.1016/j.jhydrol.2019.124148

7. Arnault, J., **J. Wei**, T. Rummler, B. Fersch, Z. Zhang, G. Jung, S. Wagner, H. Kunstmann (2019): A joint soil-vegetation-atmospheric moisture tagging procedure with WRF-Hydro: Implementation and application to the case of precipitation partitioning in the upper Danube river basin. *Water Resources Research*, doi: 10.1029/2019WR024780

6. Renner M., C. Brenner, K. Mallick, D. Wizemann, L. Conte, I. Trebs, **J. Wei**, V. Wulfmeyer, K. Schulz, A. Kleidon (2019): Using phase lags to evaluate model biases in simulating the diurnal cycle of evapotranspiration: a case study in Luxembourg. *Hydrology and Earth System Sciences*, doi: 10.5194/hess-23-515-2019

5. Gao, L., **J. Wei**, L. Wang, M. Bernhardt, K. Schulz, X. Chen (2018): A high-resolution air temperature data set for the Chinese Tian shan in 1979-2016. *Earth System Science Data*, doi: 10.5194/essd-10-2097-2018

4. Arnault, J., R. Knoche, **J. Wei**, H. Kunstmann (2016): Evaporation tagging and atmospheric water budget analysis with WRF: A regional precipitation recycling study for West Africa. *Water Resources Research*, doi: 10.1002/2015WR017704

3. **Wei, J.**, R. Knoche, H. Kunstmann (2016): Atmospheric residence times from transpiration and evaporation to precipitation: An age-weighted regional evaporation tagging approach. *Journal of Geophysical Research-Atmospheres*, doi: 10.1002/2015JD024650

2. **Wei, J.**, R. Knoche, H. Kunstmann (2015): Contribution of transpiration and evaporation to precipitation: An ET-Tagging study for the Poyang Lake region in Southeast China. *Journal of Geophysical Research-Atmospheres*, doi: 10.1002/2014JD022975

1. Guan Y., **J. Wei**, D. Zhang, M. Zu, L. Zhang (2013): To identify the important soil properties affecting Dinoseb adsorption with statistical analysis. *The Scientific World Journal*, doi: 10.1155/2013/362854