CURRICULUM VITAE

Ning Ma, PhD

➢ PERSONAL INFORMATION

- Affiliation: Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- Address: IGSNRR Building A, 11A, Datun Road, Chaoyang District, Beijing, 100101, China
- Email: ningma@igsnrr.ac.cn
- Tel: +0086 15120061809
- Personal Website: http://ningma.jimdo.com/
- Google Scholar: https://scholar.google.com/citations?user=ldc1RYwAAAAJ&hl=en
- Web of Science: https://www.webofscience.com/wos/author/record/AEN-5541-2022
- ORCiD: http://orcid.org/0000-0003-4580-0661

➢ RESEARCH INTERESTS

- Hydrological processes; Evapotranspiration; Ecohydrology; Land-atmosphere interactions; Land surface modeling; Snow dynamics

➢ EMPLOYMENT

- Associate Professor, 2022/12-Present, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- Assistant Professor, 2020/07-2022/12, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- Postdoc, 2017/07-2020/07, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

➢ EDUCATION

- PhD, 2013/09-2017/06, Institute of Tibetan Plateau Research, Chinese Academy of Sciences Supervisor: Prof. Yinsheng Zhang
- PhD visiting student, 2015/09-2016/11, Department of Hydrology and Atmospheric Sciences, Universty of Arizona Supervisor: Prof. Guo-Yue Niu
- M.S., 2010/09-2012/12, Department of Earth and Environmental Sciences, Lanzhou University. Supervisor: Prof. Nai-Ang Wang
- B.S., 2006/09-2010/06, Department of Earth and Environmental Sciences, Lanzhou University Supervisor: Prof. Nai-Ang Wang

➢ PUBLICATIONS

- **Ma, N.** 2023. Modeling land-atmosphere energy and water exchanges in the typical alpine grassland in Tibetan Plateau using Noah-MP. *Journal of Hydrology: Regional Studies*, 50, 101596, doi: 10.1016/j.ejrh.2023.101596

- Zhang, Y., Li, C., Chiew, F. H. S., Post, D. A., Zhang, X., **Ma, N.**, Tian, J., Kong, D., Leung, R., Yu, Q., Shi, J., Liu, C. 2023. Southern Hemisphere dominates recent decline in global water availability. *Science*, 382, 579-584. doi: 10.1126/science.adh0716
- Wang, L., Zhang, Y., **Ma, N.**, Song, P., Tian, J., Zhang, X., Xu, Z. 2023. Diverse responses of canopy conductance to heatwaves. *Agricultural and Forest Meteorology*, 335, 109453, doi: 10.1016/j.agrformet.2023.109453
- Shao, X., Zhang, Y., **Ma, N.**, Zhang, X., Tian, J., Liu, C. 2023. Flood Increase and Drought Mitigation Under a Warming Climate in the Southern Tibetan Plateau. *Journal of Geophysical Research: Atmospheres*, 128, e2022JD037835, doi: 10.1029/2022JD037835
- Li, X., Zhang, Y., **Ma, N.**, Zhang, X., Tian, J., Zhang, L., McVicar, T. R., Wang, E., Xu, J. 2023. Increased grain crop production intensifies the water crisis in Northern China. *Earth's Future*, 11, e2023EF003608, doi: 10.1029/2023EF003608
- Li, C., Yu, Q., Zhang, Y., **Ma, N.**, Tian, J., Zhang, X. 2023. Dominant drivers for terrestrial water storage changes are different in northern and southern China. *Journal of Geophysical Research: Atmospheres*, 128, e2022JD038074, doi: 10.1029/2022JD038074
- Luan, J., Zhang, Y., Li, X., **Ma, N.**, Shaid, N., Xu, Z., He, S., Miao, P., Tian, X., Wang, R. 2023. Unexpected consequences of large-scale ecological restoration: Groundwater declines are reversed. *Ecological Indicators*, 155, 111008.
- Faiz, M. A., Zhang, Y., Tian, X., Zhang, X., **Ma, N.**, Aryal, S., Naz, F. 2023. Time series analysis for droughts characteristics response to propagation. *International Journal of Climatology*, 43,1561-1575, doi: 10.1002/joc.7933
- **Ma, N.**, Zhang, Y. 2022. Increasing Tibetan Plateau terrestrial evapotranspiration primarily driven by precipitation. *Agricultural and Forest Meteorology*, 317, 108887, doi: 10.1016/j.agrformet.2022.108887 **[ESI Top 1% Highly Cited Paper]**
- **Ma, N.**, Zhang, Y., 2022. Contrasting trends in water use efficiency of the alpine grassland in Tibetan Plateau. *Journal of Geophysical Research: Atmospheres*, 127(14), e2022JD036919, doi: 10.1029/2022JD036919
- Szilagyi, J., **Ma, N.**, Crago, R., Qualls, R. 2022. Power-function expansion of the polynomial complementary relationship of evaporation. *Water Resources Research*, 58, e2022WR033095, doi: 10.1029/2022WR033095
- Yan, D., **Ma, N.***, Zhang, Y.* 2022. Development of a fine-resolution snow depth product based on the snow cover probability for the Tibetan Plateau: Validation and spatial-temporal analyses. *Journal of Hydrology*, 604, 127027, doi: 10.1016/j.jhydrol.2021.127027
- Wang, K., **Ma, N.***, Zhang, Y.*, Qiang, Y., Guo, Y. 2022. Evapotranspiration and energy partitioning of a typical alpine wetland in the central Tibetan Plateau. *Atmospheric Research*, 267, 105931, doi: 10.1016/j.atmosres.2021.105931
- Shao, X., Zhang, Y., Liu, C., Chiew, F H S, Tian, J., **Ma, N.***, Zhang, X. 2022. Can indirect evaluation methods and their fusion products reduce uncertainty in actual evapotranspiration estimates? *Water Resources Research*, 58(6), e2021WR031069, doi: 10.1029/2021WR031069
- Xu, Z., Zhang, Y., Zhang, X., **Ma, N.**, Tian, J., Kong, D., Post, D. 2022. Bushfire-induced water balance changes detected by a modified paired catchment method. *Water Resources Research*, 58, e2021WR031013, doi: 10.1029/2021WR031013

- Huang, Q., **Ma, N.**, Wang, P. 2022. Faster increasing evapotranspiration in permafrost-dominated basins in the warming Pan-Arctic. *Journal of Hydrology*, 615, 128678, doi: 10.1016/j.jhydrol.2022.128678
- Zhang, K., Zhu, G., **Ma, N.**, Chen, H., Shang, S. 2022. Improvement of evapotranspiration simulation in a physically based ecohydrological model for the groundwater–soil–plant–atmosphere continuum. *Journal of Hydrology*, 613, 128440, doi: 10.1016/j.jhydrol.2022.128440
- He, S., Zhang, Y., **Ma, N.**, Tian, J., Kong, D., Liu, C. 2022. A daily and 500 m coupled evapotranspiration and gross primary production product across China during 2000–2020. Earth System Science Data, 14, 5463-5488, doi: 10.5194/essd-2022-183
- Huang, Q., Zhang, Y., **Ma, N.**, Post, D. 2022. Estimating vegetation greening influences on runoff signatures using a log-based weighted ensemble method. Water Resources Research, 58, e2022WR032492, doi: 10.1029/2022WR032492
- Luan, J., Miao, P., Tian, X., Li, X., **Ma, N.**, Faiz, M. A., Xu, Z., Zhang, Y. 2022. Separating the impact of check dams on runoff from climate and vegetation changes. *Journal of Hydrology*, 614, 128565, doi: 10.1016/j.jhydrol.2022.128565
- Faiz, M. A., Zhang, Y., Tian, X., Tian, J., Zhang, X., **Ma, N.**, Aryal, S. 2022. Drought index revisited to assess its response to vegetation in different agro-climatic zones. *Journal of Hydrology*, 614, 128543, doi: 10.1016/j.jhydrol.2022.128543
- Faiz, M. A., Zhang, Y., Zhang, X., **Ma, N.**, Aryal, S., Ha, T. T. V., Baig, F., Naz, F. 2022. A composite drought index developed for detecting large-scale drought characteristics. *Journal of Hydrology*, 605, 127308, doi: 10.1016/j.jhydrol.2021.127308
- Tang, Z., Tian, J., Zhang, Y., Zhang, X., Zhang, J., **Ma, N.**, Li, X., Song, P. 2022. Anthropogenic aerosols dominated the decreased solar radiation in eastern China over the last five decades. *Journal of Cleaner Production*, 380, 135150, doi: 10.1016/j.jclepro.2022.135150
- Guo, Y., Zhang, Y., **Ma, N.**, Wang, T., Yang, D. 2022. Significant CO2 sink over the Tibet's largest lake: Implication for carbon neutrality across the Tibetan Plateau. *Science of the Total Environment*, 843, 156792, doi: 10.1016/j.scitotenv.2022.156792
- Tian, J., Zhang, Y., Guo, J., Zhang, X., **Ma, N.**, Wei, H., Tang, Z. 2022. Predicting root zone soil moisture using observations at 2121 sites across China. *Science of the Total Environment*, 847, 157425, doi: 10.1016/j.scitotenv.2022.157425
- Meresa, H., Zhang, Y., Tian, J., **Ma, N.**, Zhang, X., Heidari, H., Naeem, S. 2022. An integrated modeling framework in projections of hydrological extremes. *Surveys in Geophysics*, 43, doi: 10.1007/s10712-022-09737-w
- Zhang, X., Zhang, Y., Tian, J., **Ma, N.**, Wang, Y-P. 2022. CO2 fertilization is spatially distinct from stomatal conductance reduction in controlling ecosystem water-use efficiency increase. *Environmental Research Letters*, 17 (5), 054048. doi: 10.1088/1748-9326/ac6c9c
- Shang, C., Wu, T., **Ma, N.**, Wang, J., Li, X., Zhu, X., Wang, T., Hu, G., Li, R., Yang, S., Chen, J., Yao, J., Yang, C. 2022. Assessment of different complementary-relationship-based models for estimating actual terrestrial evapotranspiration in the frozen ground regions of the Qinghai-Tibet Plateau. *Remote Sensing*, 14(9), 2047, doi: 10.3390/rs14092047

- Luan, J., Miao, P., Tian, X., Li, X., **Ma, N.**, Faiz, M. A., Xu, Z., Zhang, Y. 2022. Estimating hydrological consequences of vegetation greening. *Journal of Hydrology*, 611, 128018, doi: 10.1016/j.jhydrol.2022.128018
- Liu, Y., Qiu, G., Zhang, H., Yang, Y., Zhang, Y., Wang, Q., Zhao, W., Jia, L., Ji, X., Xiong, Y., Yan, C., **Ma, N.**, Han, S., Cui, Y. 2022. Shifting from homogeneous to heterogeneous surfaces in estimating terrestrial evapotranspiration: Review and perspectives. *Science China Earth Science*, 65(2), 197-214. doi: 10.1007/s11430-020-9834-y
- Zhang, Z., Arnault, J., Laux, P., **Ma, N.**, Wei, J., Shang, S., Kunstmann, H. 2022. 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*, 59, 1355-1376.
- **Ma, N.**, Szilagyi, J., Zhang, Y. 2021. Calibration-free complementary relationship estimates terrestrial evapotranspiration globally. *Water Resources Research*, 57, e2021WR029691 doi: 10.1029/2021WR029691 **[Top Cited Article in WRR during 2021-2022]**
- Zhang, X., Zhang, Y., **Ma, N.**, Kong, D., Tian, J., Shao, X., Tang, Q. 2021. Greening-induced increase in evapotranspiration over Eurasia offset by CO2-induced vegetational stomatal closure. *Environmental Research Letters*, 16, 124008, doi: 10.1088/1748-9326/ac3532
- Zhang, Z., Arnault, J., Laux, P., **Ma, N.**, Wei, J., Kunstmann, H. 2021. Diurnal cycle of surface energy fluxes in high mountain terrain: High-resolution fully coupled atmosphere-hydrology modelling and impact of lateral flow. *Hydrological Processes*, 35(12), e14454, doi: 10.1002/hyp.14454
- Luan, J., Zhang, Y., **Ma, N.**, Tian, J., Li, X., Liu, D. 2021. Evaluating the uncertainty of eight approaches for separating the impacts of climate change and human activities on streamflow. *Journal of Hydrology*, 601, 126605, doi: 10.1016/j.jhydrol.2021.126605
- Faiz, M. A., Zhang, Y., **Ma, N.**, Baig, F., Naz, F., Niaz, Y. 2021. Drought indices: aggregation is necessary or is it only the researcher's choice? *Water Supply*, 21, doi: 10.2166/ws.2021.163
- Wang, P., Huang, Q., Pozdniakov, S., Liu, S., **Ma, N.**, Wang, T., Zhang, Y., Yu, J., Xie, J., Fu, G., Frolova, N., Liu, C. 2021. Potential role of permafrost thaw on increasing Siberian river discharge. *Environmental Research Letters*, 16, doi: 10.1088/1748-9326/abe326.
- Paul, P. K., Zhang, Y., **Ma, N.**, Mishra, A., Panigraphy, N., Singh, R. 2021. Selecting hydrological models for developing countries: Perspective of global, continental, and country scale models over catchment scale models. *Journal of Hydrology*, 600, doi: 10.1016/j.jhydrol.2021.126561
- Li, X., Zhang, Y., **Ma, N.**, Li, C., Luan, J. 2021. Contrasting effects of climate and LULC change on blue water resources at varying temporal and spatial scales. *Science of the Total Environment*, 786, 147488, doi: 10.1016/j.scitotenv.2021.147488
- Wang, T., Wang, P., Wang, Z., Niu, G-Y., Yu, J., **Ma, N.**, Wu, Z., Pozdniakov, S., Yan, D. 2021. Drought adaptability of phreatophytes: Insight from vertical root distribution in drylands of China. *Journal of Plant Ecology*, 14, doi: 10.1093/jpe/rtab059
- Zou, X., Gao, H., Zhang, Y., **Ma, N.**, Wu, J., Farhan, S. 2021. Quantifying ice storage in upper Indus river basin using ground‐penetrating radar measurements and glacier bed

topography model version 2. *Hydrological Processes*, 35(4), e14145, doi: 10.1002/hyp.14145

- **Ma, N.**, Yu, K., Zhang, Y., Zhai, J., Zhang, Y., Zhang, H. 2020. Ground observed climatology and trend in snow cover phenology across China with consideration of snow-free breaks. *Climate Dynamics*, 55, 2867-2887. doi: 10.1007/s00382-020-05422-z
- Wang, K., Zhang, Y., **Ma, N.**, Guo, Y., Qiang, Y. 2020. Cryosphere evapotranspiration in the Tibetan Plateau: A review. *Sciences in Cold and Arid Regions*, 12(6), 355-370. doi: 10.3724/SP.J.1226.2020.00355
- Szilagyi, J., Crago, R., **Ma, N.** 2020. Dynamic scaling of the generalized complementary relationship (GCR) improves long-term tendency estimates in land evaporation. *Advances in Atmospheric Sciences*, 37(9), 975-986.
- **Ma, N.**, Szilagyi, J., Jozsa, J. 2020. Benchmarking large-scale evapotranspiration estimates: A perspective from a calibration-free complementary relationship approach and FLUXCOM. *Journal of Hydrology*, 590, 125221, doi: 10.1016/j.jhydrol.2020.125221
- Yan, D., Huang, C., **Ma, N.***, Zhang, Y. 2020. Improved Landsat-based water and snow indexes for extracting lake and snow cover/glacier in the Tibetan Plateau. *Water*, 12(5), doi: 10.3390/w12051339.
- Cui, J., Tian, L., Wei, Z., Huntingford, C., Wang, P., Cai, Z., **Ma, N.**, Wang, L., 2020. Quantifying the controls on evapotranspiration partitioning in the highest alpine meadow ecosystem. *Water Resources Research*, 56(4), doi: 10.1029/2019WR024815.
- **Ma, N.**, Szilagyi, J. 2019. The CR of evaporation: A calibration-free diagnostic and benchmarking tool for large-scale terrestrial evapotranspiration modeling. *Water Resources Research*, 55 (8), 7246-7274.
- Lei, Y., Zhu, Y., Wang, B., Yao, T., Yang, K., Zhang, X., Zhai, J., **Ma, N.** 2019. Extreme lake level changes on the Tibetan Plateau associated with the 2015/2016 El Niño. *Geophysical Research Letters*, 46 (11), 5889-5898.
- Liu, L., Jiang, L., Jiang, H., Wang, H., **Ma, N.**, Xu, H. 2019. Accelerated glacier mass loss (2011–2016) over the Puruogangri ice field in the inner Tibetan Plateau revealed by bistatic InSAR measurements. *Remote Sensing of Environment*, 231, doi: 10.1016/j.rse.2019.111241.
- **Ma, N.**, Szilagyi, J., Zhang, Y., Liu, W. 2019. Complementary-relationship-based modeling of terrestrial evapotranspiration across China during 1982-2012: Validations and spatiotemporal analyses. *Journal of Geophysical Research: Atmospheres*, 124 (8), 4326-4351 **[ESI Top 1% Highly Cited Paper]**
- Zhang, T., Zhang, Y., Guo, Y., **Ma, N.**, Dai, D., Song, H., Qu, D., Gao, H. 2019. Controls of stable isotopes in precipitation on the central Tibetan Plateau: A seasonal perspective. *Quaternary International*, 513, 66-79.
- Zhu, L., Wang, J., Ju J., **Ma, N.**, Zhang, Y., Liu, C., Han, Bo, Liu, L., Wang, M., Ma, Q. 2019. Climatic and lake environmental changes in the Serling Co region of Tibet over a variety of timescales. *Science Bulletin*, 64(7), 422-424.
- Wang, G., Wang, P., Wang, T-Y., Zhang, Y-C., Yu, J-J., **Ma, N.**, Frolova, N., Liu, C-M. 2019. Contrasting changes in vegetation growth due to different climate forcings over the last three decades in the Selenga-Baikal Basin. *Remote Sensing*, 11(4), 426. doi:10.3390/rs11040426

- Guo, Y., Zhang, Y., **Ma, N.**, Xu, J., Zhang, T. 2019. Long-term changes in evaporation over Siling Co Lake on the Tibetan Plateau and its impact on recent rapid lake expansion. *Atmospheric Research*, 216, 141-150.
- Zhang, H., Zhang, F., Zhang, G., Che, T., Yan, W., Ye, M., **Ma, N.** 2019. Ground-based evaluation of MODIS snowcover product V6 across China: Implications for the selection of NDSI threshold. *Science of the Total Environment*, 651, 2172-2726.
- Zhang, Y.*, **Ma, N.*** 2018. Spatiotemporal variability of snow cover and snow water equivalent in the last three decades over Eurasia. *Journal of Hydrology*, 559, 238-251.
- Ding, J., Zhang, Y., Guo, Y., **Ma, N.** 2018. Quantitative comparison of river inflows to a rapidly expanding lake in central Tibetan Plateau. *Hydrological Processes*, 32, 3241-3253.
- **Ma, N.**, Niu, G-Y., Xia, Y., Cai, X., Zhang, Y., Ma, Y., Fang, Y. 2017. A systematic evaluation of Noah-MP in simulating land-atmosphere energy, water and carbon exchanges over the continental United States. *Journal of Geophysical Research: Atmospheres*, 122, 22, 12245-12268.
- Ebrahimi, S., Chen, C., Chen, Q., Zhang, Y., **Ma, N**., Zaman, Q. 2017. Effects of temporal scales and space mismatches on the TRMM 3B42 v7 precipitation product in a remote mountainous area. *Hydrological Processes*, 31, 4315-4327.
- **Ma, N.**, Zhang, Y. 2017. Comment on "Rescaling the complementary relationship for land surface evaporation" by R. Crago et al. *Water Resources Research*, 53, 6340-6342.
- **Ma, N.**, Szilagyi, J., Niu, G-Y., Zhang, Y., Zhang, T., Wang, B., Wu, Y. 2016. Evaporation variability of Nam Co Lake in the Tibetan Plateau and its role in recent rapid lake expansion. *Journal of Hydrology*, 537, 27-35.
- Guo, Y., Zhang, Y., **Ma, N.**, Song, H., Gao, H. 2016. Quantifying surface energy fluxes and evaporation over a significant expanding endorheic lake in the central Tibetan Plateau. *Journal of the Meteorological Society of Japan*, 94(5), 453-465.
- Dong, C., Wang, N., Chen, J., Li, Z., Chen, H., Chen, L., **Ma, N.** 2016. New observational and experimental evidence for the recharge mechanism of the lake group in the Alxa Desert, north-central China. *Journal of Arid Environments*, 124, 48-61.
- **Ma, N.**, Zhang, Y., Guo, Y., Gao, H., Zhang, H., Wang, Y., 2015. Environmental and biophysical controls on the evapotranspiration over the highest alpine steppe. *Journal of Hydrology*, 529, 980-992.
- **Ma, N.**, Zhang, Y., Xu, C., Szilagyi, J. 2015. Modeling actual evapotranspiration with routine meteorological variables in the data-scarce region of the Tibetan Plateau: Comparisons and implications. *Journal of Geophysical Research: Biogeosciences*, 120, 1638-1657.
- **Ma, N.**, Zhang, Y., Szilagyi, J., Guo, Y., Zhai, J., Gao, H. 2015. Evaluating the complementary relationship of evapotranspiration in the alpine steppe of the Tibetan Plateau. *Water Resources Research*, 51, 1069-1083.
- Farhan, S., Zhang, Y., Ma, Y., Guo, Y., **Ma, N.** 2015. Hydrological regimes under the conjunction of westerly and monsoon climates: A case investigation in the Astore Baisn, Northwestern Himalaya. *Climate Dynamics*, 44, 3015-3032.

- **Ma, N.**, Wang, N., Zhao, L., Zhang, Z., Dong, C., Shen, S. 2014. Observation of mega-dune evaporation after various rain events in the hinterland of Badain Jaran Desert, China. *Chinese Science Bulletin*, 59(2), 162-170.
- Li, Y., Wang, N., Li, Z., **Ma, N.**, Zhou, X., Zhang, C. 2013. Lake evaporation: A possible factor affecting lake level changes tested by modern observational data in arid and semi-arid China. *Journal of Geographical Sciences*, 23(1), 123-135.
- **Ma, N.**. 2021. Comparison of variations in land surface evapotranspiration between typical alpine steppe and wetland ecosystems on the Tibetan Plateau over the last four decades. *Advance in Earth Science*, 36(8): 836-848. (*In Chinese with English abstract*)
- **Ma, N.**, Wang, N. 2016. On the particularity of evaporation modeling over the lakes in the hinterland of the Badain Jaran desert. *Arid Zone Research*, 33(6): 1141-1149. (*In Chinese with English abstract*)
- **Ma, N.**, Wang, N., Huang, Y., Li, H., Lu, J. 2015. Characteristics of radiation budget and energy partitioning under different weathers on land and lake surface in the hinterland of Badain Jaran Desert in summer. *Journal of Natural Resources*, 30(5), 796–809. (*In Chinese with English abstract*)
- Wang, N., **Ma, N.***, Chen, H., Chen, X., Dong, C., Zhang, Z. 2013. A preliminary study for the precipitation characteristics in the hinterland of Badain Jaran Desert. *Advances in Water Science*, 24(2), 153-160. (*****as corresponding author, *In Chinese with English abstract*)
- **Ma, N.**, Wang, N., Wang, P., Sun, Y., Dong, C. 2012. Temporal and spatial variation characteristics and quantification of the affect factors for reference evapotranspiration in Heihe River basin. *Journal of Natural Resources*, 27(6), 975-989. (*In Chinese with English abstract*)
- **Ma, N.**, Wang, N., Zhu, J., Chen, X., Chen, H., Dong, C. 2011. Climate change around the Badain Jaran desert in recent 50 years. *Journal of Desert Research*, 31(6), 1541-1547. (*In Chinese with English abstract*)
- **Ma, N.**, Wang, N., Li, Z., Chen, X., Zhu, J., Dong, C. 2011. Analysis on climate change in the Northern and Southern marginal zones of the Badain Jaran Desert during the period 1960-2009. *Arid Zone Research*, 28(2), 242-250. (*In Chinese with English abstract*)

➢ PROFESSIONAL ACTIVITIES

- Associate Editor, *Journal of Hydrology*
- Journal Reviewer (review for >100 manuscripts): *Geophysical Research Letters, Water Resources Research, Journal of Geophysical Research-Atmospheres, Agricultural and Forest Meteorology, Journal of Climate, Journal of Hydrology, Hydrology and Earth System Sciences, Science Bulletin, Journal of Hydrometeorology, WIREs Water, Hydrological Processes, Climatic Change, Earth System Science Data, International Journal of Climatology, Atmospheric Research, Environmental Research Letters, Journal of Hydrology: Regional Studies, Hydrological Science Journal, Hydrology Research, Theoretical and Applied Climatology, Global Ecology and Conservation, Earth and Space Science, Advances in Atmospheric Sciences, Remote Sensing, Environmental Science and Pollution Research, Ecological Processes, PLOS One, Frontiers in Water, Journal of Meteorological Research*

➢ HORNORS & AWARDS

- World Top 2% Scientist (Single Year of 2022)
- Outstanding Presentation Award, The First GLASS Products Users Conference. GLASS Team from Beijing Normal University. 2022
- Editor's Citation for Excellence in Refereeing for *Water Resources Research*, AGU. 2018
- Hundard Excellent PhD Thesis of Chinese Academy of Sciences. 2018 (Top 2%)
- Outstanding Contribution in Reviewing, *Journal of Hydrology*. 2018
- The Excellent Postdoc Fellowship Jointly supported by the Chinese Academy of Sciences and the China Postdoc Science Foundation. 2017
- Presidential Outstanding Award, Chinese Academy of Sciences. 2017
- Merit Graduate Pacemarker, University of Chinese Academy of Sciences. 2017
- Graduate National Scholarship, Minstry of Education of China. 2016
- Outstanding Young Scientist Presentation Award, 2016 Annual Conference of State Key Laboratory of Atmospheric Boundary Layer and Atmospheric Chemistry (LAPC). 2016
- Zhuliyuehua Outstanding PhD Fellowship, University of Chinese Academy of Sciences. 2016
- Merit Graduate, University of Chinese Academy of Sciences. 2015
- Oversea Joint-PhD Trainning Scholarship, China Scholarship Council. 2015
- "Student Travel Grant" for GEWEX 7th International Conference in Hague, GEWEX. 2014
- Paper (as the corresponding author) titled with "Preliminary study for the precipitation characteristics in the hinterland of Badain Jaran Desert" was awarded "*Frontrunner 5000-Top Articles in Sciences and Technology Journals of China*". 2013
- Merit Graduate, Lanzhou University. 2011
- Master Student Fellowship, Lanzhou University. 2010, 2011, 2012
- Excellent Bachelor Thesis, Lanzhou University. 2010
- Undergraduate Pacemaker, Lanzhou University. 2010
- Undergraduate First Class Scholarship, Lanzhou University. 2009
- Undergraduate Third Class Scholarship, Lanzhou University. 2006, 2007, 2008

➢ LANGUAGE

- English: IELTS 7 (Tested in May, 2015)

➢ MEDIA COVERAGE

- Chinese Academy of Sciences News for grassland evapotranspiration research highlight: http://www.cas.cn/syky/201509/t20150916_4425583.shtml
- GlacierHub research spotlight for Nam Co Lake evaporation research: http://glacierhub.org/2016/05/04/slower-evaporation-rate-spurs-tibetan-lake-growth/
- CETES spotlight for the ET product of China: http://en.cetes.cn/single.jsp?alias=Publications&ArticleID=329731
- Chinese Academy of Sciences News for the ET product of China: http://www.cas.cn/syky/201905/t20190507_4691065.shtml
- Chinese Academy of Sciences News for the water use efficiency of alpine grassland in Tibetan Plateau:

https://english.cas.cn/newsroom/research_news/earth/202207/t20220728_309983.shtml

- IGRNRR, Chinese Academy of Sciences News for the ET in Tibetan Plateau: http://english.igsnrr.cas.cn/rh/rp/202206/t20220617_306614.html