Curriculum Vitae

Name: Yanhong Gao

Address: Environmental Science BL, 2005 Songhu Rd., Yangpu district, 200438 Shanghai, China

Affiliation: Fudan University

Telephone: +86-21-31248844

E-mail: gaoyh@fudan.edu.cn

Nationality: People's Republic of China

Education:

Ph. D.	Cold and Arid Regions Environmental and Engineering Institute, Chinese Academy of Science, Atmospheric physics and environment, 2000-2003
M.S.	Cold and Arid Regions Environmental and Engineering Institute, Chinese Academy of Science, Meteorology, 1997-2000
B.S.	Chengdu Meteorology College, Weather dynamics, 1991-1995

Employment:

2019, 09 -present	Professor, Fudan University
2017, 04-2019, 08	Director, Key Laboratory of Land-surface Process and Climate Change in Cold and Arid Regions, Chinese Academy of Sciences
2016, 06-present	Professor, Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences
2015, 08-2017,03	vice Director, Key Laboratory of Land-surface Process and Climate Change in Cold and Arid Regions, Chinese Academy of Sciences
2013,12-2015,12	vice Dean, Department of Tibet atmospheric physics, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
2011, 11-present	Professor, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
2009, 04-2011, 10	Research Associate, University of Washington
2006, 11-2009, 04	Professor, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
2005, 06-2005, 08	Visiting scientist, National Center of Atmospheric Research
2003, 07-2006, 11	Associate Professor, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences

Honors and Awards:

2018	Special government allowance of The State Council
2018	Advanced individual of "the founding of the nation", Chinese Academy of Sciences,

2017 the first Prize of Gansu Provincial Natural Science
2015 Qinghai-Tibet Plateau Young Science and Technology Award
2013 the excellent young scientist foundation of NSFC
2012 the “100-Talent” program of the Chinese Academy of Sciences
2011 The third Prize of Gansu Provincial Natural Science
2003 Outstanding Graduate Student of Chinese Academy of Sciences;
2000 “Study hard and style virtuous” Outstanding Graduate student;
2000 Peng Yin-gang science and technology scholarship.

Models and Data Experience:

Unix/Linux supercomputer
Penn State/NCAR MM5 Mesoscale Modeling System
The Weather Research&Forecasting (WRF) Mesoscale Modeling System
Noah land surface model
GMT(The Generic Mapping Tools)
NCL(The NCAR Command Language)
NCO (The netCDF Operators)
CDO (netCDF Climate Data Operators)
Python

Research Grants:

2021-2025 Shanghai Frontier scientific Research Base of ocean-atmosphere interaction
2021-2024 Chinese Academy of Sciences "Light of the West" cross-team project - Key laboratory cooperation research project “Permafrost freeze-thaw changes and ecoclimatic effects in western China under the background of warming and humidification” (xbzg-zdsys-202102)
2019-2024 The second Tibetan Plateau Scientific Expedition and Research (STEP) program (2019ZZKK0103)
2018-2022 The "Pan third Pole Environmental change and Green Silk Road Construction" (Category A) project "the interaction between the West Wind and the Monsoon and the change of Water Resources" in the Strategic Pioneer Science and Technology Project of the Chinese Academy of Sciences (Grant No. XDA2006010202)
2018-2021 The major R & D project of the Ministry of Science and Technology "key technologies and applications of regional models in subtropical areas", the first topic " complex underlying surfaces and key processes of high-resolution models in subtropical regions " (Grant 2017YFC1502101)
2016-2019 The National Natural Science Foundation of China – uncertainties in land surface modeling over Tibetan Plateau and their impacts on land-atmosphere interaction (Grant No. 91537211).
2016-2018 The National Natural Science Foundation of China – assessment of the recycling over the Tibetan Plateau and responses to the global change (Grant No. 91537105)

2014-2016 The excellent young scientist foundation of NSFC, principal.

2013-2017 973 project "Response of desertification over Tibet Plateau to climate change" , in charge of the 4th section: Mechanism of desertification response to climate change over Tibet Plateau.

2012-2015 "Hundred Talent" program granted by the Chinese Academy of Sciences: Climate changes for major river basins over Tibet Plateau and surroundings.

2009-2012 Susceptibility of Colorado River basin to megadroughts in a warming climate, participator. PI: Dennis P. Lettenmaier, Dept. of Civil and Env. Engr., University of Washington.

2009-2011 On the impact of land on water resources at the source of yellow river, participator.

2009 Water recycling modeling in the HRB, Northwest China, funded by National Natural Science Foundation of China, principal.

2008-2010 973 project "Tibetan Environmental Changes and Adaptations", participator.

2007-2009 Water cycling and water resources management research in the Heihe River Basin, funded by Key project of National Natural Science Foundation of China attendee, participator.

2007-2009 Remote Sensing and surface observation and simulation over the typical region, funded by Bureau of Science and Technology for Resources and Environment, CAS, participator.

2007-2010 Observation and theory study of energy and mass exchange and boundary layer over uneven overlay in oasis system, funded by Key project of National Natural Science Foundation of China attendee, participator.

2005-2007 Interaction numerical simulation between land hydrology and atmosphere in the Heihe river basin, funded by National Natural Science Foundation of China, principal.

2005-2008 Interaction between atmosphere and land hydrology in the Heihe River Basin, funded by Chinese Academy of Sciences for Advanced Ph. D student of the Chinese Academy of Sciences, principal.

2005-2009 interaction between snow hydrology and atmosphere, talent training of special discipline, funded by National Natural Science Foundation of China, participator.

2004-2005 Climate change and land-atmosphere interaction in arid regions of NW china, funded by the Innovation Project of the Chinese Academy of Science, principal.

2003-2006 Integrating of modeling and simulation environment in Hiehe river basin, funded by Knowledge Innovation Program of the Chinese Academy of Sciences, participator.

2003-2005 Observation and numerical modeling of energy and water cycle in oasis system, funded by Key project of National Natural Science Foundation of China attendee, participator.

2000-2003 Coupling of atmosphere-soil and hydrology model in the typical inner land river basin, funded by Knowledge Innovation Program of the Chinese Academy of Sciences, participator.

Selected Publications:

1. Zhang, M., and **Y. Gao**, 2023: Changes in extreme climate events corresponding to Köppen-Geiger classification under warming future. *Weather and Climate Extremes.*
2. Zeng, L., **Y. Gao**, G. Zhang, and J. Li, 2023: The Influence of Main Topographic Factors on Peak Types of Daily Precipitation in Eastern China. *Transactions of Atmospheric Sciences.* (In Chinese)
3. Zhang, H., and **Y. Gao**, 2023: Changes in convective and stratiform precipitation over the Tibetan Plateau projected by global and regional climate models. *International Journal of Climatology.*
4. Jiang, Y., Y. Miao, Y. Zhao, J. Liu, and **Y. Gao**, 2023: Extreme-wind events in China in the past 50 years and their impacts on sandstorm variations. *Frontiers in Earth Science-Atmospheric Science.*
5. Zan, Y., **Y. Gao**, Y. Jiang, Y. Pan, X. Li, and P. Su, 2023: The Effects of Lake Level and Area Changes of Poyang Lake on the Local Weather. *Atmosphere.*, 13, 1-20.
6. Zeng, L., W. Liu, Z. Liu, and **Y. Gao**, 2023: Evaluating the effects of topographical factors on the precipitation simulated by kilometer-scale versus quarter-degree dynamical downscaling models in eastern China. *Atmospheric and Oceanic Science Letters. 2023, 16(2):7*

2022:

7. **Gao, Y.**, J. Xu, M. Zhang, C. Liu, and J. Dan, 2022: Regional climate dynamical downscaling over the Tibetan Plateau—From quarter-degree to kilometer-scale. *Science China Earth Sciences.*, 65(12), 2237-2247.
8. Zeng, L., **Y. Gao**, Y. Jiang, Z. Liu, and S. Li, 2022: Scale Effects of Terrain Factors on Precipitation in East China. *Advances in Earth Science.* 37, 535-548. (In Chinese)
9. Li, Z., and **Y. Gao**, 2022：Impact of interaction between metropolitan area and shallow lake on daily extreme precipitation over Eastern China. *Atmosphere.*, 13, 306, https://doi.org/10.3390/atmos13020306.
10. Li, Z., Y. **Gao, Y**. Jiang, L. Wen, and Y. Pan, 2022: Influences of Cities and Lakes on a Shear Line Rainstorm Process in East China. *Plateau Meteorolog.*, 41, 655-670. (In Chinese)
11. Li, G., H. Chen, M. Xu, C. Zhao, L. Zhong, R. Li, Y. Fu and **Y. Gao**, 2022: Impacts of Topographic Complexity on Modeling Moisture Transport and Precipitation over the Tibetan Plateau in Summer. *Advances in Atmospheric Sciences.*, https://doi.org/10.1007/s00376-022-1409-7.
12. Liu, Z., **Y. Gao** and G. Zhang, 2022: How well can a convection-permitting-modelling improve the simulation of summer precipitation diurnal cycle over the Tibetan Plateau? *Clim Dyn.*, 58, 3121–3138, https://doi.org/10.1007/s00382-021-06090-3.

2021:

13. **Gao, Y.**, W. Liu, and L. Zeng, 2021: Uncertainties in the Regional High-Resolution Land

Surface Simulations. *Plateau Meteorology.*, 40(6), 1364-1376, https://doi.org/ 10. 7522/j. issn. 1000-0534. 2021. zk008. (In Chinese)

14. **Gao, Y.**, M. Zhang, and W. Liu, 2021: Responses of water resources changes to warming and its influencing factors. *Trans Atmos Sci.*, 44(3), 325-335. (In Chinese)
15. Dan, J., **Y. Gao,** and M. Zhang, 2021: Detecting and attributing evapotranspiration deviations using dynamical downscaling and convection-permitting modeling over the Tibetan Plateau. *Water.*, 13(15), 2096, 1-21, https://doi.org/10.3390/w13152096.
16. Zhang, H., and **Y. Gao**, 2021: Projected changes in precipitation recycling over the Tibetan Plateau based on a global and regional climate model. *Journal of Hydrometeorology.*, 22, 2633-2644.
17. Pan, Y., **Y. Gao**, and S. Li, 2021： Impacts of land use/land cover distributions and vegetation amount on land surface temperature simulation in East China. *Earth and Space Science.*, 8, e2020EA001544, https://doi.org/10.1029/2020EA001544.
18. You, Q., Z. Cai, N. Pepin, D. Chen, B. Ahrens, Z. Jiang, F. Wu, S. Kang, R. Zhang, T. Wu, P. Wang, M. Li, Z. Zuo, **Y. Gao**, P. Zhai, and Y. Zhang, 2021: Warming amplification over the Arctic Pole and Third Pole. *Earth-Science Reviews.*, 217, 103625.
19. Jiang, Y., **Y. Gao**, C. He, B. Liu, Y. Pan, and X. Li, 2021: Spatiotemporal distribution and variation of wind erosion over the Tibetan Plateau based on a coupled land-surface wind-erosion model. *Aeolian Research.*, 50, 100699, https://doi.org/10.1016/j.aeolia.2021.100699.
20. Zhang, X., L. Chen, Z. Ma, and **Y. Gao**, 2021: Assessment of surface exchange coefficients in the Noah-MP land surface model for different land cover types over China. *International Journal of Climatology.*, 1-22.

2020:

21. **Gao, Y.**, J. Xu， M. Zhang, and F. Jiang, 2020: Advances in the study of the 400 mm isohyet migrations and wetness and dryness changes on the chinese mainland. *Advances in Earth Science.*, 35(11), 1101-1112, https://doi.org/10.11867/j.issn.1001-8166.2020.087. (In Chinese)
22. Tang, Q., Y. Liu, C. Zhang, F. Su, Y. Li, **Y. Gao**, W. Li, and D. Chen, 2020: Research progress on moisture sourcc change of precipitation over the Tibetan Plateau and its surrounding area. *Trans Atmo Sci.*, 43(6), 1002-1009(In Chinese)]
23. Jiang, Y., F. Chen, **Y. Gao** , C. He, M. Barlage, and W. Huang, 2020: Assessment of uncertainty sources in snow cover simulation in the Tibetan plateau. *Journal of Geophysical Research: Atmospheres.*, 125, e2020JD032674, https://doi.org/10.1029/2020JD032674.
24. **Gao, Y.,** F. Chen, G. Miguez-Macho, and X. Li, 2020: Understanding precipitation recycling over the Tibetan Plateau using tracer analysis with WRF. *Climate Dynamics*, 1-17.
25. **Gao, Y.** , F. Chen, and Y. Jiang, 2020: Evaluation of a Convection-Permitting Modeling of Precipitation over the Tibetan Plateau and Its Influences on the Simulation of Snow-Cover Fraction. *J. Hydrometeor.*, 21, 1531-1548.
26. Xu, J., **Y. Gao**, B. Peng, and X. Wang, 2020: Change Characteristics of Precipitation and its Cause in 1979 -2016 over the Qinghai-Tibetan Plateau. *Plateau Meteorology.*，39（2）, 234-244, https://doi.org/10. 7522/j. issn. 1000-0534. 2019. 00029. (In Chinese)
27. Zhang, H., Y. Xu, and **Y. Gao**, 2020: Simulation Study on Precipitation Recycling Ratio in the Tibetan Plateau from 1982 to 2005. *Advances in Earth Science.*, 35(3), 297–307, https://doi.org/ 10.11867/j.issn.1001-8166.2020.027(In Chinese)]

28. Xu, Y., and **Y. Gao**, 2020: Analysis of Precipitation Recycling Ratio Based on GLDAS and Reanalysis Data over the Tibetan Plateau. *Plateau Meteorology*., 39(3), 499-510, https://doi.org/10. 7522/j. issn. 1000-0534. 2020. 00013. (In Chinese)]
29. Zhang, H., and **Y. Gao**, 2020: Projected Changes of Precipitation over the Qinghai-Tibetan Plateau based on Dynamical Downscaling. *Plateau Meteorology.*, 39(3), 1–13, https://doi.org/10. 7522/j. issn. 1000-0534. 2019. 00125(In Chinese)
30. Wu, J., **Y. Gao**, Y. Pan, Y. Jiang, Z. Li, and J. Ma, 2020: Evaluation of soil-moisture simulations in the central and eastern part of Qinghai-Tibet Plateau and its error analysis. *Chinese J. Geophys., (in Chinese)*, 63(6), 2184-2198, https://doi.org/10.6038/cjg2020N0129. (In Chinese)

2019:

31. Xu, Y., and **Y. Gao**, 2019: Quantification of Evaporative Source of Precipitation for the Southeastern Tibetan Plateau and Middle Yangtze River Basin. *Atmosphere*., 10(428), 1-19.
32. Zhang, H., **Y. Gao**, J. Xu, Y. Xu, and Y. Jiang, 2019: Decomposition of Future Moisture Flux Change Projected by Global and Regional Climate Models over the Tibetan Plateau. *Journal of Climate.*, 15, 7037-7053, https://doi.org/10.1175/JCLI-D-19-0200.1.
33. Jiang, Y., **Y. Gao**, Y. Pan, and X. Li, 2019: Spatial and Seasonal Distributions of Sand Dusts in Qinghai-Tibet Plateau and Its Surrounding Areas. *Journal of Desert Research.*, 39(4), 83-91. (In Chinese)
34. Li, S., **Y. Gao**, S. Lyu, Y. Liu, and Y. Pan, 2019: Response of surface air temperature to the change of leaf area index in the source region of the Yellow River by the WRF model. *Theor Appl Climatol.*, 1-11, https://doi.org/10.1007/s00704-019-02931-8.
35. Jiang, Y., F. Chen, **Y. Gao**, M. Barlage, and J. Li, 2019: Using multi-source satellite data to assess recent snow-cover change in the Qinghai-Tibet Plateau and its uncertainty. *J. Hydrometeor.*, 20(7), 1293-1306, https://doi.org/10.1175/JHM-D-18-0220.s1.10.1175/JHM-D-18-0220.1.
36. Ma, J., and **Y. Gao**, 2019: Analysis of Annual Precipitation and Extreme Precipitation Change in the Upper Yellow River Basin in Recent 50 Years. *Plateau Meteorology.*, 38(1), 124-135. (In Chinese)

2018:

37. Li, R., **Y. Gao**, D. Chen, Y. Zhang, and S. Li, 2018: Contrasting vegetation changes in dry and humid regions of the Tibetan Plateau over recent decades. *Sciences in Cold and Arid Regions.*, 10 (6): 482-492.
38. Hu, G., Z. Dong, **Y. Gao**, L. Shang, J. Lu, and C. Yan, 2018: Land Cover Change in Response to Climate Variation in the Source Region of the Yangtze River (SRYR), Central Tibetan Plateau. *In Proceedings of the International Workshop on Environment and Geoscience (IWEG 2018)*, 477-483.
39. **Gao, Y.**, F. Chen, D. P. Lettenmaier, J. Xu, L. Xiao, and X. Li, 2018: Does elevation-dependent warming hold true above 5,000 m elevation?: Lessons from the Tibetan Plateau. *npj Climate and Atmosphere Science.*, https://doi.org/ 10.1038/s41612-018-0030-z.
40. Jiang, Y., **Y. Gao**, Z. Dong, B. Liu, and L. Zhao, 2018: Wind erosion simulation along the Qinghai-Tibet Railway in the north-central Tibet. *Aeolian Research*., 32, 192-201.
41. Li, X., **Y. Gao**, J. Xu, and L. Xiao, 2018: Comparison of near-surface wind speed simulations over the Tibetan Plateau from three dynamical downscalings. *Theoretical and Applied*

Climatology., 134, 1399-1411, https://doi.org/10.1007/s00704-017-2353-9.

42. **Gao, Y.**, L. Xiao, D. Chen, J. Xu, and H. Zhang, 2018: Comparison between past and future extreme precipitations simulated by global and regional climate models over the Tibetan Plateau. *International Journal of Climatology.*, 16, https://doi.org/10.1002/joc.5243.

2017:

43. **Gao, Y**., and D. Chen, 2017: Modeling of Regional Climate over the Tibetan Plateau, Oxford University Press. Accepted book chapter of "Regional climate and climate change in the region of Tibet" edited by D. Chen and T. Yao (2017).
44. Zhang, G., T. Yao, S. Piao, T. Bolch, H. Xie, D. Chen, **Y. Gao**, Catherine M. O'Reilly, C. K. Shum, K. Yang, S. Yi, Y. Lei, W. Wang, Y. He, K. Shang, X. Yang, and H. Zhang, 2017: Climate change drives extensive and drastically different alpine lake changes on Asia's high plateaus during the past four decades. *Geophysical Research Letters.*, 44, 252–260, https://doi.org/10.1002/2016GL072033.
45. You, Q., X. Xue, F. Peng, S. Dong, and **Y. Gao**, 2017: Surface water and heat exchange comparison between alpine meadow and bare land in a permafrost region of the Tibetan Plateau. *Agricultural and Forest Meteorology.*, 232, 48-65.
46. **Gao, Y.**, L. Xiao, D. Chen, F. Chen, J. Xu, and Y. Xu, 2017: Quantification of the relative role of land surface processes and large scale forcing in dynamic downscaling over the Tibetan Plateau. *Climate Dynamics.*, 48, 1705-1721, https://doi.org/ 10.1007/s00382-016-3168-6.
47. Xu, J., **Y. Gao**, D. Chen, L. Xiao, and T. Ou, 2017: Evaluation of Global Climate Models for downscaling applications centered over the Tibetan Plateau. *International Journal of Climatology*., 37, 657-671, https://doi.org/10.1002/joc.4731.
48. Pan, Y., S. Lv, S. Li, **Y. Gao**, X. Meng, Y. Ao, and S. Wang, 2017: Simulating the role of gravel in freeze-thaw process on the Qinghai-Tibet Plateau. *Theoretical and Applied Climatology.*, https://doi.org/ 10.1007/s00704-015-1684-7.
49. Li, R., S. Lv, B. Han, **Y. Gao**, and X. Meng, 2017: Projections of South Asian Summer Monsoon Precipitation based on 12 CMIP5 Models. *International Journal of Climatology.*, https://doi.org/ 10.1002/joc.4689.

2016:

50. Cuo, L., Y. Zhang, S. Piao, and **Y. Gao**, 2016: Annual changes in plant functional types and their responses to climate change on the Northern Tibetan Plateau. *Biogeosciences.*, https://doi.org/10.5194/bg-13-3533-2016, 13,3533-3548.
51. Xiao, L., **Y. Gao**, F. Chen, J. Xu, K. Li, X. Li, and Y. Jiang, 2016: Dynamic Downscaling Simulation of Extreme Temperature Indices over the Qinghai-Xizang Plateau. *Plateau Meteorology.*, 35(3), 574-589, https://doi.org/ 10.7522/j.issn.1000-0534.2016.00039. (In Chinese)

2015:

52. Pan, Y., S. Lv, **Y. Gao**, and Z. Li, 2015: Simulation of Influence of Gravel on Soil Thermal and Hydraulic Properties on Qinghai-Xizang Plateau. *Plateau Meteorology.*, 34(5), 1224-1236. (In Chinese)
53. Li, K., **Y. Gao**, F. Chen, J. Xu, Y. Jiang, L. Xiao, R. Li, and Y. Pan, 2015: Simulation of Impact of Roots on Soil Moisture and Surface Fluxes over Central Qinghai-Xizang Plateau. *Plateau Meteorology*., 34(3), 642-652. (In Chinese)
54. **Gao, Y**., K. Li, F. Chen, Y. Jiang, and C. Lu, 2015: Assessing and improving Noah-MP land

model simulations for the central Tibetan Plateau. *J. Geophys. Res. Atmos.*, 120, 9258-9278, https://doi.org/10.1002/2015JD023404.]

55. **Gao, Y.**, L. Ruby Leung, Y. Zhang, and L. Cuo, 2015: Changes in Moisture Flux over the Tibetan Plateau during 1979-2011: Insights from the high resolution simulation. *Journal of Climate.*, 28(10), 4185-4197, https://doi.org/ 10.1 175/JCLI-D-14-00581.1.
56. **Gao, Y.,** J. Xu, and D. Chen, 2015: Evaluation of WRF Mesoscale Climate Simulations over the Tibetan Plateau during 1979-2011. *J. Climate.*, 28(7), 2823-2841, https://doi.org/10.1175/JCLI-D-14-00300.1.
57. **Gao, Y**., X. Li, R. L. Leung, D. Chen, and J. Xu, 2015: Aridity changes in the Tibet Plateau in a warming climate. *Environmental Research Letters.*, 10, 034013, https://doi.org/10.1088/1748-9326/10/3/034013.
58. Meng, X., S. Lu, **Y. Gao**, and J. Guo, 2015: Simulated effects of soil moisture on oasis self-maintenance in a surrounding desert environment in Northwest China. *International Journal of Climatology.*, https://doi.org/10.1002/joc.4271.
59. Li, S., S. Lv, Ao. Y., H. Chen, and **Y. Gao**, 2015: The Change of Climate and Terrestrial Carbon Cycle over Tibetan Plateau in CMIP5 Models. *International Journal of Climatology.*, https://doi.org/10.1002/joc.4293.
60. Li, S, S. Lv, Y. Liu, **Y. Gao**, and Y. Ao, 2015: Variations and trends of terrestrial NPP and its relation to to climate change in the ten CMIP5 models. *J. of Earth Sys. Sci.*, 124(2).
61. Li, S., S. Lv, Y. Zhang, Y. Liu, **Y. Gao**, and Y. Ao, 2015: The change of global terrestrial ecosystem net primary productivity (NPP) and its response to climate change in CMIP5. *Theoretical and Applied Climatology.*, https://doi.org/ 10.1007/s00704-014-1242-8.
62. Han. B., S. Lv, R. Li, Y. Ao, H. Chen, **Y. Gao** and D. Ma, 2015: The Connection between the Atmospheric Latent Energy and the Energy Fluxes simulated by 9 CMIP5 models. *J. Meteor. Res.*, https://doi.org/ 10.1007/s13351-014-4829-1.
63. Han, B., S. Lv, **Y. Gao,** Y. Ao, and R. Li, 2015: Response of Atmospheric Energy to Historical Climate Change in CMIP5. *J. Meteor. Res.*, 28, https://doi.org/ 10.1007/s13351-014-4016-4.
64. Li, R., S. Lu, B. Han, and **Y. Gao**, 2015: Connections between the South Asian summer monsoon and the tropical sea surface temperature in CMIP5. *J. Meteor. Res.*, 28, https://doi.org/ 10.1007/s13351-014-4031-5.

2014:

65. Bao,Y., **Y. Gao,**, ,S. Lv, Q. Wang, S. Zhang, J. Xu, R. Li, S. L, D. Ma, X. Meng, H. Chen, and Y. Chang, 2014: Evaluation of CMIP5 Earth System Models in Reproducing Leaf Area Index and Vegetation Cover over the Tibetan Plateau. *J. Meteor. Res.*, 28, https://doi.org/10.1007/s13351-014-4023-5.
66. Liu Y., S. Li, S. Lv, **Y. Gao**, and Y. Ao, 2014: An analysis of the changing characteristics of snowfall in the East Asia based on CMIP5. *Journal of Glaciology and Geocryology.*, 36(6), 1345-1352. (In Chinese)
67. Liu, B., J. Qu, W. Zhang, L. Tan, and **Y. Gao**, 2014: Numerical evaluation of the scale problem on wind flow of a windbreak. *Sci. Rep.*, 4, 6619, https://doi.org/ 10.1038/srep06619.
68. Liu B., J. Qu, D. Ning, **Y. Gao**, R. Zu, and Z. An, 2014: Grain-size study of aeolian sediments found east of Kumtagh Desert. *Aeolian Research.*, 13(1), 1-6, https://doi.org/10.1016/j.aeolia.2014.01.001.
69. Xu, J., and **Y. Gao**, 2014: Validation of Summer Surface Air Temperature and Precipitation

Simulation over Heihe River Basin. *Plateau Meteorology.*, 33(4), 937-946(In Chinese)

70. Li, X., **Y. Gao**, W. Wang, Y. Lan, J. Xu, and K. Li, 2014: Climate Change and Applicability of GLDAS in the Headwater of the Yellow River Basin. *Advances in Earth Science.*, 29(4), 531-540. (In Chinese)
71. Wang, T., X. Gao, **Y. Gao**, X. Hui, and X. Ding, 2014: Diagnostic Analysis of Rainstorm Occurred in Jiuquan of Gansu Province on 4 June 2012. *Plateau Meteorology.*, 33(2), 504-514, https://doi.org/10.7522/j. issn. 1000-0534,2014.00026. (In Chinese)
72. Li, Z., Z. Wei, S. Lv, W. Dong, **Y. Gao**, H. Wei, and Z. Zheng, 2014: Effect of land surface processes on the Tibetan plateau's past and its predicted response to global warming: An analytical investigation based on the simulation results of CMIP5 model. *Environmental Earth Sciences.*, 72, 1155-1166, https://doi.org/ 10.1007/s12665-013-3034-3,2014.
73. Liu, B., J. Qu, G. Yang, Q. Niu, Z. An, and **Y. Gao**, 2014: Preliminary Study on the Geochemical Features of Sediments from Different Geomorphic Units of the Eastern Kumtagh Desert. *Journal of Desert research.*, 34(5), 1-6. (In Chinese)
74. **Gao, Y**., L. Cuo, and Y. Zhang, 2014: Changes in Moisture Flux over the Tibetan Plateau during 1979-2011 and Possible Mechanisms. *Journal of Climate.*, https://doi.org/ 10.1175/JCLI-D-13-00321.1.

2013:

75. Liu Y., S. Li, S. Lv, Y. Ao, and **Y. Gao**, 2013: Comparison of Flux Correction Methods for Eddy-Covariance Measurement. *Plateau Meteorology.*, 32(6), 1704-1711. (In Chinese)
76. Cuo, L., Y. Zhang, **Y. Gao**, Z. Hao, and L. Cairang, 2013: The impacts of climate change and land cover/use transition on the hydrology in the upper Yellow River basin, China. *Journal of Hydrology.*, 502, 37-52.
77. Li, Z., Z. Wei, S. Lv, **Y. Gao**, B. Han, S. Li, Y. Ao, and H. Chen, 2013: Verification of Surface Air Temperature and Precipitation from CMIP5 Model in Notthern Hemisphere and Qinghai-Xizang Plateau. *Plateau Meteorology.*, 32(4), 921-928. (In Chinese)
78. Wang, W., **Y. Gao**, and J. Xu, 2013: Applicability of GLDAS and Climate Change in the Qinghai-Xizang Plateau and Its Surrounding Arid Area, *Plateau Meteorology.*, 32(3), 635-645. (In Chinese)

2012:

79. Li, R., S. Lv, B. Han, and **Y. Gao**, 2012: Preliminary Comparison and Analyses of Air Temperature at 2 m Height between Three Reanalysis Data-Sets and Observation in the East of Qinghai-Xiang Plateau. *Plateau Meteorology.*, 31(6), 1488-1502. (In Chinese)
80. Peng, W., **Y. Gao**, and W. Wang, 2012: Impact of Different Initial Soil Conditions on the Water Cycle of Yellow River Source Region. *Advances in Earth Science.*, https://doi.org/ 10.11867/j.issn.1001-8166.2012.11.1252. (In Chinese)
81. Li, S., S. Lv, **Y. Gao**, Y. Ao, and Y. Liu, 2012: Analysis of the Statistical Characteristics of the Turbulent Data at Maqu Area in the Upper Yellow River. *Advances in Earth Science.*, 27(8), 901-907. (In Chinese)
82. **Gao, Y**., L. R. Leung, E. P. Salathé Jr., F. Dominguez, B. Nijssen, and D. P. Lettenmaier, 2012: Moisture flux convergence in regional and global climate models: Implications for droughts in the southwestern United States under climate change. *Geophys. Res. Lett.*, 39, L09711, https://doi.org/ 10.1029/2012GL051560.

2011:

83. **Gao, Y.**, J. A. Vano, C. Zhu, and D. P. Lettenmaier, 2011: Evaluating climate change over the Colorado River basin using regional climate models. *J. Geophys. Res.*, 116, D13104, https://doi.org/ 10.1029/2010JD015278.
84. **Gao, Y**., Y. Xue, W. Peng, H. Kang, D. Waliser, 2011: Assessment of Dynamic Downscaling of China Regional Summer Climate Using Regional Climate Model. *Adv. Atmos. Sci.*, 28(5), 1077–1098, https://doi.org/ 10.1007/s00376-010-0039-7.
85. **Gao, Y.**, W. Pen, and W. Wang, 2011: Influence of spring soil condition on later regional precipitation simulation. *Journal of Glaciology and Geocryology.*, 33(5), 1055-1063. (In Chinese)
86. Peng, W., and **Y. Gao**, 2011: A simulation of the energy and water cycles in seasonal freezing-thawing process on the Tibetan Plateau. *Journal of Glaciology and Geocryology.*, 33 (2), 364-373. (In Chinese)

2010 and before：

87. Yu, Y., D. Xia, L. Chen, N. Liu, J. Chen, and **Y. Gao,** 2010: Analysis of Particulate Pollution Characteristics and Its Causes in Lanzhou. *Northwest China, Environmental Science.*, 31(1), 22-28. (In Chinese)
88. Li, S., S. Lv, Y. Liu, Y. Zhang, Y. Ao, **Y. Gao**, S. Chen, and L. Shang, 2010: Determination of aerodynamical parameter in Maqu area in the upper reach of yellow river and its application in land surface process model. *Plateau Meteorology.*, 29(6), 1408-1413. (In Chinese)
89. Cui, W., **Y. Gao**, and W. Peng, 2009: A comparative analysis of two soil moisture datasets in Heihe River basin. *Plateau Meteorology.*, 28(6), 1274-1281. (In Chinese)
90. Liu, Y., S. Lv, S. Li, and **Y. Gao**, 2009: Numerical Simulation of Impact of Land Surface Changes on Regional Climatic Environment in Source Regions of Yellow River. *Plateau Meteorology.*, 28 (2), 327-334. (In Chinese)
91. Meng, X., S. Lv, T. Zhang, J. Guo, **Y. Gao**, Y. Bao, L. Wen, S. Luo, and Y. Liu, 2009:, Numerical simulations of the atmospheric and land conditions over the Jinta oasis in northwestern China with satellite-derived land surface parameters. *J. Geophys. Res.*, 114, D06114, https://doi.org/ 10.1029/2008JD010360.
92. **Gao, Y.**, F. Chen, M. Barlage, W. Liu, G. Cheng, X. Li, Y. Yu, Y. Ran, H. Li, H. Peng, and M. Ma, 2008: Enhancement of land surface information and its impact on atmospheric modeling in the Heihe River Basin, northwest China. *J. Geophys. Res.*, 113, D20S90, https://doi.org/10.1029/2008JD010359.
93. **Gao, Y.**, and G. Cheng, 2008: Several Points on Mass and Energy Interaction between Land Surface and Atmosphere in the Heihe River Basin. *Advances in Earth Science.*, 23(7), 779-784. (In Chinese)
94. Chen R.,**Y. Gao**, S. Lu, E. Kang, X. Ji, Z. Zhang, and Y. Yang, 2007: A distributed water-heat coupled model for mountainous watershed of an inland river basin in Northwest China (III) using the outputs from Mesoscale model version 5. *Environmental Geology.*, https://doi.org/10.1007/s00254-007-0688-8.
95. **Gao, Y.**, W. Liu, G. Cheng, H. Peng, H. Li, and Y. Ran, 2007: Setup and Validation of the Soil Texture Type Distribution Data in the Heihe River Basin. *Plateau Meteorology.*, 26(5), 967-974. (In Chinese)
96. **Gao, Y.**, G. Cheng, W. Liu, W. Cui, Y. Liu, H. Li, H. Peng, and S. Wang, 2007: Modification

of the Soil Characteristic Parameters in Heihe River Basin and Effects on Simulated Atmospheric Elements. *Plateau Meteorology.*, 26(5), 958-966. (In Chinese)

97. Liu, W., and **Y. Gao**, 2007: Application of Some Simulated Energy Index to Thunderstorm Forecast at Zhongchuan Airport. *Plateau Meteorology.*, 26(4), 791-797. (In Chinese)
98. Liu, W., **Y. Gao**, Y. Ran, and G. Cheng, 2007: Contrast Analyses of Simulation Results in Heihe Basin Utilizing the Different Resolution DEM Data. *Plateau Meteorology.*, 26(3), 525-531. (In Chinese)
99. **Gao, Y.**, W. Liu, Y. Ran, M. Ma, and G. Cheng, and F. Chen, 2007: Vegetation Coverage Fraction Calculation and the Mesoscale Modeling in Heihe River Basin. *Plateau Meteorology.*, 26(2), 270-277. (In Chinese)
100. Liu, W., **Y. Gao**, H. Li, Y. Ran, G. Cheng, and F. Chen, 2007: Landuse Patterns of Heihe River Basin and Its Impact Modeling. *Plateau Meteorology.*, 26(2), 278-285. (In Chinese)
101. Liu, W., **Y. Gao**, Y. Liu, and G. Cheng, 2007: Function of the Sub-grid Snow Cover Parameterization in Modeling the Patch Snow Cover Zones of the Qilian Mountains. *Journal of Glaciology and Geocryology.*, 29(1), 91-99. (In Chinese)
102. **Gao,Y.**, G. Cheng, L. Shang, and W. Liu, 2007: Application of Atmospheric Model Coupled with Frozen Soil Parameterization to Simulating Spring Soil Condition in the Qilian Mountains. *Journal of Glaciology and Geocryology.*, 29(1), 82-90. (In Chinese)
103. Li, S., S. Lv, **Y. Gao**, L. Wen, and Y. Liu, 2007: Numerical simulation on effect of environmenatal degeneration in Qilian Mountains, *Journal of Desert research.*, 27(1), 82-88. (In Chinese)
104. **Gao, Y.**, G. Cheng, W. Cui, F. Chen, G. David, and W. Yu, 2006: Coupling of Enhanced Land Surface Hydrology with Atmospheric Mesoscale Model and Its Implement in Heihe River Basin. *Advances in Earth Science.*, 21(12), 1283-1292. (In Chinese)
105. Chen, R., **Y. Gao**, S. Lv, E. Kang, X. Ji, and Y. Yang, 2006: A Distributed Water-Heat Coupled (DWHC) Model for Mountainous Watershed of An Inland River Basin（Ⅲ）: Model Results Using the Results from MM5 Model. *Advances in Earth Science.*, 21(8), 830-837. (In Chinese)
106. **Gao, Y.**, G. Cheng, X. Li, and S. Lv, 2005: Comparison of Atmospheric Data Scaling Transfer Scheme in Heihe River Basin. *Plateau Meteorology.*, 38(4), 563-569. (In Chinese)
107. **Gao, Y.,** G. Cheng, and S. Lv, 2005: Numerical Simulation of Different Drip Irrigation Schemes for Oases of Arid Region in Northwest China. *Journal of Desert Research.,* 25(4), 500-504.]
108. Li, S., S. Lv, **Y. Gao**, and Y. Zhang, 2005: Effect of Different Horizontal Resolutions on Simulation of Precipitation in Qilian Mountain. *Plateau Meteorology.*, 28(4), 497-502. (In Chinese)
109. Lv, S., **Y. Gao**, and W. Liu, 2005: Analysis on A Mesoscale Convective System in North China Plain. *Plateau Meteorology.*, 24(2), 268-274. (In Chinese)
110. **Gao, Y.,** Y. Chen, and S. Lu, 2004: Numerical simulation of the critical scale of oasis maintenance and development in the arid regions of Northwest China. *Advances in Atmospheric Sciences*., 21(1), 113－124.
111. **Gao, Y.**, S. Lu and G. Cheng, 2004: Simulation of rainfall and watershed convergence Process in upper reaches of Heihe River Basin, July 2002. *Science in China Ser. D Earth Sciences.*, 47(Supp. Ⅰ)1－8.

112. **Gao, Y.**, Y. Chen, and S. Lv, 2004: Numerical Simulation of Environmental Influence Under Different Irrigation Volume in Arid Regions of NW China. *Progress in Geography.*, 23(3), 67-73. (In Chinese)
113. **Gao, Y.**, Y. Chen, and S. Lv, 2004: Numerical Simulation of Different Irrigation Scheduling on Oasis in Northwest China. *Progress in Geography.*, 23(1). 38-50. (In Chinese)
114. **Gao, Y.**, and S. Lv, 2004: The Response of Environment Element Variations in Upper Reach of Heihe River Valley to Watershed Flow Convergence Process. *Plateau Meteorology.*, 23(2), 184-191. (In Chinese)
115. Chen, Y., S. Lv, and **Y. Gao**, 2004: Numerical Simulation of Circulation and Boundary Layer Characteristics in Oases on Different Scales. *Plateau Meteorology.*, 23(2), 177-183. (In Chinese)
116. **Gao, Y.**, Y. Chen, and S. Lv, 2003: Numerical Simulation of Influence of Different Irrigation Methods on Oasis. *Journal of Desert Research.*, 23(1), 90-94. (In Chinese)
117. **Gao, Y.**, Y. Chen, and S. Lv, 2002: Role of Irrigation in Maintenance and Development of Modern Oasis. *Journal of Desert Research.*, 22(4), 383-386. (In Chinese)
118. **Gao, Y.**, and S. Lv, 2001: Numerical Simulation of Local Climatic Effect of Heterogeneous Underlying Surface. *Plateau Meteorology.*, 20(4), 354-361. (In Chinese)
119. **Gao, Y.**, and S. Lv, 2001: Numerical Simulation of Influence of Different Oasis Distribution on Regional Climate. *Journal of Desert Research.*, 21(2), 108-115. (In Chinese)

International conferences and workshops:

1. Jiang H. and Y. Gao, Simulation of Precipitation Diurnal Cycle over the Tibetan Plateau: dynamical downscaling modeling at Varied Resolutions, EGU General Assembly 2023, April 23-28, 2023
2. Tang Y., J. Dan, M. Zhang, H. Jiang, Y. Gao, How does the Evaporative Moisture over the Tibetan Plateau Transport - Detected by a Water Vapor Tracer method coupling with regional climate model, EGU General Assembly 2023, April 23-28, 2023
3. New Progress in Land Surface Processes and Land-Air Interactions over the Tibetan Plateau, The 8th Lecture Series of Nanjing University Water Forum, November 30, 2021. Virtual.
4. The Role of Land Surface Processes in the Dynamic Downscaling of the Tibetan Plateau, National Climate Center Annual Conference 2021, November 18, 2021, Virtual.
5. The dynamic downscaling of the Tibetan Plateau - from 1/4 degree to the convection allowable scale, Chengdu University of Information Technology reduced the 70th anniversary celebration series activities, October 22, 2021.
6. Simulation Evaluation and Error Analysis of Evapotranspiration over the Tibetan Plateau, Annual Conference 2021, Department of Ecology and Environment of Gansu Province, September 15, 2021, Virtual.
7. Dynamic Downscaling over the Tibetan Plateau - From 1/4 Degree to Convective Allowable Scale, "Frontier Forum on Regional Climate Modeling and Prediction", Future Earth Program Central Committee, April 17-18, 2021, School of

Atmospheric Sciences, Zhuhai Campus, Sun Yat-sen University, China.

8. Water Resources Change in high-altitude Mountain areas and its response to warming, 2021 Winter Vacation Academic Lecture Series (4), Department of Atmospheric Science, School of Environment, China University of Geosciences (Wuhan), Virtual.
9. Convection permitting simulation of summer precipitation over the Tibetan Plateau，The Fifth Convection-Permitting Modeling Workshop 2021 (CPM2021)
10. High-Resolution Climate Modeling and Hazards，September 7 (Tue) -10 (Fri) , 14 (Tue) UTC，Virtual.
11. Liu Z. and Y. Gao, Convection permitting simulation of summer precipitation over the Tibetan Plateau, EGU General Assembly 2021
12. Dan J. and Y. Gao, Detecting evapotranspiration biases in reanalyses and regional climate modeling, EGU General Assembly 2021
13. Altitude Dependence of temperature change, Tsinghua University Bauhinia Forum, No.337，2020-09-02，Beijing China
14. Error Analysis of Snow cover simulation on the Qinghai-Tibet Plateau, High-level Sub-Forum on Land-Air Interaction and Carbon Neutrality in the Earth's Key Belt, Qinghai Normal University, China，2021-7-19，Xining。
15. Evaluation of a Convection-Permitting Modeling of Precipitation over the Tibetan Plateau and Its Influences on the Simulation of Snow-Cover Fraction，1st CPTP annual meeting 22 January 2021，2021-01-22。
16. Error Analysis of Snow cover simulation over the Tibetan Plateau, Land-Air Coupling: Observation, Simulation and Analysis, January 12, 2021, Virtual.
17. Changes of Water Resources in High-altitude Mountainous Areas and its Response to Warming，Fudan University and Sichuan University Inaugural Joint Seminar on Climate/Environmental Risk and Public Health, 2022-12-11, Virtual 523311904.
18. A Convection-Permitting Modelling of Precipitation Over the Tibetan Plateau，The 8th Summer conference of CYWater, International Chinese Youth Water Science Association，2020-08-11-14，Beijing China
19. Gao Y., Precipitation recycling ratio - An indicator of land impacts on precipitation, 2019 Cross-Strait University Symposium on Atmospheric Science, 2019-12-13-14, Taipei, China.
20. Gao Y., F. Chen, and Y. Jiang, Convection-permitting modeling over the Tibetan Plateau， ICRC-CORDEX 2019 (International Conference on Regional Climate), 14-18 October, 2019 Beijing, China
21. Gao Y., Yu Xu, Fei Chen, and Miguez-Macho Gonzalo，Precipitation recycling over the Tibet and impacts of lake treatments，The 8th International Conference on Atmosphere, Ocean and Climate Change， July 10-12, 2019， Nanjing，Jiangsu
22. Gao Y. Precipitation recycling over the Tibetan Plateau and impacts of the lake treatments, International Association of Chinese Youth in Water Sciences (CYWater) 2019 Summer Meeting, 2019-07-15 Zhuhai China.
23. Zhan S., Y. Sheng, D. P. Lettenmaier, and Y. Gao, Reconstruction of lake storage changes in Ebinur and Sayram Lake basins, Xinjiang, China, session H098 -

Modeling hydrological processes and changes under a changing environment, Hydrology, San Francisco, 9-13 December 2019.

24. Pan Y., Y. Gao, X. Li, Impacts of four land-use products on the simulation of land surface temperature in east China, in session B106 - Surface-Atmosphere Interactions: Advances in Spatial and Temporal Scaling of Surface-Atmosphere Fluxes, Biogeosciences, San Francisco, 9-13 December 2019.
25. Zhang H., and Y. Gao, Decomposition of Future Moisture Flux Changes over the Tibetan Plateau Projected by Global and Regional Climate Models, GC082 - The Third Pole Environment (TPE) under Global Changes, Global Environmental Change, San Francisco, 9-13 December 2019.
26. Li X., Y. Gao, F. Chen and D. Lettenmaier, Does elevation-dependent warming hold true above 5000melevation? Lessons from the Tibetan Plateau, GC082 - The Third Pole Environment (TPE) under Global Changes, Global Environmental Change, San Francisco, 9-13 December 2019.
27. Xu Y., and Y. Gao, Quantification of Evaporative Sources of Precipitation and Its Changes in the Southeastern Tibetan Plateau and Middle Yangtze River Basin, GC082 - The Third Pole Environment (TPE) under Global Changes, Global Environmental Change, San Francisco, 9-13 December 2019.
28. Zhang H. and Y. Gao, Decomposition of Future Moisture Flux Change Projected by Global and Regional Climate Models over the Tibetan Plateau, 8-12 Apr 2019, Vienna, Austria, in session ITS4.8/AS4.46/BG1.41/CL3.13/CR1.12/GM5.6 - The Third Pole Environment (TPE) under Global Changes
29. Pan Y. and Y. Gao, Modeling the effects of climate changes on soil respiration in the central Qinghai–Tibet Plateau, 8-12 Apr 2019, Vienna, Austria, in session ITS4.8/AS4.46/BG1.41/CL3.13/CR1.12/GM5.6 - The Third Pole Environment (TPE) under Global Changes
30. Xu Y. and Y. Gao, Precipitation recycling change over the Tibetan Plateau in recent years, 8-12 Apr 2019, Vienna, Austria, in session AS4.1/CL2.19/CR3.07/HS11.24 - The atmospheric water cycle: processes, dynamics and characteristics
31. Li X. and Y. Gao, Evaluation of near-surface wind speed simulations over the Tibetan Plateau from three dynamical downscalings based on WRF model, 8-12 Apr 2019, Vienna, Austria, in session ITS4.8/AS4.46/BG1.41/CL3.13/CR1.12/GM5.6 - The Third Pole Environment (TPE) under Global Changes
32. Jiang Y. and Y. Gao, Using multi-source satellite data to assess recent snow-cover change and its uncertainty in the Tibet Plateau, 8-12 Apr 2019, Vienna, Austria, in session ITS4.8/AS4.46/BG1.41/CL3.13/CR1.12/GM5.6 - The Third Pole Environment (TPE) under Global Changes
33. Ma J. and Y. Gao, Analysis of Annual Precipitation and Extreme Precipitation Change in the Upper Yellow River Basin in Recent 50 Years, 8-12 Apr 2019, Vienna, Austria, in session NH1.1/AS1.15/HS4.1.5 - Extreme meteorological and hydrological events induced by severe weather and climate change.
34. Gao Y., Does elevation-dependent warming hold true above 5,000 m elevation?

Lessons from the Tibetan Plateau, AGU fall meeting, Dec 10-14, 2018, Washington NC, USA.

35. Gao Y., High-resolution simulations over the Tibetan Plateau. Sep. 03-06, 2018, GEWEX Convection-Permitting Climate Modeling II, Boulder, CO USA
36. Gao Y., Elevation-dependent warming lessons from the Tibetan Plateau, Jul. 31-Aug. 02 2018, Beijing, International Association of Chinese Youth in Water Sciences (CYWater).
37. Study of precipitation recycling over the Tibetan Plateau using evaporation-tagging approach, AOGS, 2-9 Jun 2018, Honolulu, Hawaii, USA.
38. Studying precipitation recycling over the Tibetan Plateau using evaporation-tagging and back-trajectory analysis, AGU fall meeting, 11-15, Dec 2017, New Orleans, Louisiana, USA.
39. Modeling of regional climate over the Tibetan Plateau, the Eleventh Symposium on Atid Climate Change and Disaster Reducing & Workshop on Drought and Regional Water Cycle, 5-6 June 2017, Lanzhou China
40. Impacts on the regional climate modeling and improvements of modern land surface model over the Tibet Plateau, General Assembly 2017 of the European Geosciences Union, 23-28, April, 2017, Vienna, Austria
41. Impact of land surface model on the Tibetan dynamic downscaling, 12-16 Dec 2016, San Francisco
42. Impact of land surface model on the Tibetan dynamic downscaling, International Workshop on Land Surface Multi-spheres Processes of Tibetan Plateau and their Environmental and Climate Effects Assessment, August 8-10, 2016 Xining, China
43. Convener and Chair of Session C017: Frozen soil, its change, and the responses and feedbacks of the frozen soil change in atmosphere, hydrology and ecosystem I, 14-18 Dec 2015, San Francisco.
44. Li X. and Y. Gao, Aridity changes over the Tibetan Plateau, 14-18 Dec 2015, San Francisco.
45. Jiang Y. and Y. Gao, Wind erosion simulation along with the Qinghai-Tibet Railway and its response to the climate change, 14-18 Dec 2015, San Francisco.
46. Gao Y., J. Xu, Impact of the GCM errors on Dynamic Downscaling in the Tibetan Plateau, For AGU fall meeting, 15-20 Dec 2014, San Francisco.
47. Recent studies of climate change over the Tibetan Plateau, December 9, NCAR RAL, Boulder.
48. Gao Y., Climate Change over the Tibetan Plateau from the Regional Climate Modeling, For AGU fall meeting, 9-13 Dec 2013, San Francisco.
49. Gao Y., How the Hydrological Cycle over Tibet Plateau Response to Global Climate Change? For AOGS 10th anniversary annual meeting, 24-28 Jun 2013, Brisbane.

50. Gao Y., To the causes of wetting over Tibet Plateau, Terrestrial Water Cycle Observation and Modeling from Space: Innovation and Reliability of Data Products, WATGLOBS, 26 – 30 April, 2013, Beijing, China.
51. Gao Y., Land Characteristics from Remote Sensing and Its Impact on the Atmospheric Simulations, BG05-HS07-A025, AOGS - AGU (WPGM) Joint Assembly 2012 taking place from 13 to 17 August, 2012 at the Resorts World Sentosa in Singapore.
52. Gao Y., Climate Change in Regional and Global Climate Models: Implications for Droughts in the Colorado River Basin, HS08-15-A029, AOGS - AGU (WPGM) Joint Assembly 2012 taking place from 13 to 17 August, 2012 at the Resorts World Sentosa in Singapore.
53. Gao Y., L. R. Leung, E. P. Salathé Jr, F. Dominguez and D. P. Lettenmaier, AGU Fall Meeting, San Francisco, CA, Dec 2011, Regional Climate Change from the Atmosphere Moisture Budget over the Southwestern United States.
54. Gao Y., L. R. Leung, E. P. Salathé Jr, F. Dominguez and D. P. Lettenmaier, DOE PI Meeting, Sep 2011, Assessment of Climate Change over the Southwestern United States as predicted by Regional Climate Models.(Oral)
55. Gao Y., J. Vano, and D. P. Lettenmaier, 91st American Meteorological Society Annual Meeting Session “Regional Climate Modeling to Improve Climate Variability and Change Projections at the Local Scale (Joint between the 25th Conference on Hydrology and the 23rd Conference on Climate Variability and Change)”, Seattle, WA, Jan 23-27 2011, Assessment of Climate Change over Colorado River Basin as predicted by Regional Climate Models.
56. Gao Y., C.M. Zhu, E. Salathe, R. Leung, and D. P. Lettenmaier, Steve Burges Retirement Symposium, 23-25 March 2010, Performance of dynamical downscaling for Colorado River Basin.
57. Gao Y., and D. P. Lettenmaier, DOE Integrated Climate Change Modeling Science Team Meeting, 29 March - 2 April 2010, Susceptibility of Colorado River Basin to Megadroughts in a Warming Climate.
58. Gao Y., C.M. Zhu, E. Salathe, R. Leung, and D. P. Lettenmaier, AGU Fall Meeting, San Francisco, CA, Dec 2009, Performance of dynamical downscaling for Colorado River Basin.
59. Gao Y., Enhancement of Land Surface Information and Its Impact on Atmospheric Modeling in the Heihe River Basin, Northwest China, Oral presentation on CAS-TWAS-WMO Forum 2008, Kunming, 17-19 Sep, 2008.

60. Gao Y., Coupling of the high-resolution Router with Noah-MM5 and Applications in Mountainous region NW China, on National numerical prediction development and application. April 10-12, 2008, wuhan, China
61. Gao Y., Development of Coupled high-resolution Router-Noah-MM5 for Mountainous region and Applications of enhanced land information in the Heihe River Basin，Oral presentation on the international Networking for Young Scientists Workshop: Modeling Climate Variability and Change. Feb 25-Mar 1,2008, Exeter, UK
62. Gao Y., Coupling of the Noah-Router Land Surface Model to MM5 and it's Application in Heihe River Basin, Northwest China. On International Symposium on Arid Climate Change and Sustainable Development（ISACS）, Sep 11-13,2007, Lanzhou, China
63. Gao Y., Satellite Remote Sensing and Applications for Hydrometeorology，Oral presentation on The 1th International Workshop on the Energy and Water Cycle over the Tibetan Plateau, September 3- 12, 2006 / Lhasa, Tibet, China
64. Gao Y., Coupling of the Noah-Router Land Surface Model to the MM5 Model. Oral presentation on Westen Parcific Geophisics Meeting, July.24-27, 2006, Beijing, China
65. Gao Y., Simulation of Critical Scale of Oasis Maintenance and Development in NWC Arid Regions. On The International Dry Lands Development Commission (IDDC) Eighth International Conference on Dry Land Development: Humans and Nature– Working Together for Sustainable Development in Dry Lands, February 25-28 2006, Beijing, China
66. Gao Y., Improvement of land hydrological scheme and implement in the Upper Reaches of Heihe River Basin, NW China. On 2005 CTWF International workshop: Land surface models and their applications, Nov 15-18, 2005, Zhuhai, Guangdong, China
67. Gao Y., Simulation of Watershed Convergence Processes and its Influence on Environment in Upper Reaches of Heihe River Basin. On International Symposium on Arid Climate Change and Sustainable Development（ISACS）, May 23-25,2005, Lanzhou, China