

Biographical

Curriculum Vitae

Name Ying Ping Wang

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 Yingping.wang@csiro.au Nationality Australian

 Yingpingwang

Qualifications

<i>Undergraduate</i>	1979-83	Central-south Forestry University, China	B.Sc. Agriculture
<i>Postgraduate</i>	1985-88	Edinburgh University	Ph.D <i>Crown Structure, radiation absorption, photosynthesis and transpiration.</i>

Honours, Awards, Prizes

1985	British Council scholarship
1996	Visiting fellowship, University of Edinburgh
2003	The Chief's commendation
2004	Senior visiting fellowship to USA, Australian Academy of Sciences
2011	Senior capability development award, CSIRO Marine and Atmosphere
2016	AOGS distinguished lecturer in terrestrial biogeochemistry
2017	Chinaflux 15 years anniversary memorial award
2019	CSIRO non-cash reward in recognition of contributions to ACCESS CMIP6

Current and former positions

In CSIRO

July 2014 – to date	Chief Research Scientist, CSIRO (highest ranking)
July 2005 – Jun 2014	Senior Principal Research Scientist, CSIRO
July 1997 – Jun 2005	Principal Research Scientist, CSIRO
July 1994 – Jun 1997	Senior Research Scientist, CSIRO
Jan 1990 - Jun 1994	Research Scientist, CSIRO
May 1988 – Dec 1989	Research Associate, University of Edinburgh

In other institutions

2017-2019	Lecturing Professor, Tsinghua University, China
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2017- 2020	Adjunct professor University of New South Wales
2008- to 2012	Adjunct professor University of Technology Sydney
2019- to date	F1000 Faculty Ecosystem Ecology Section

Short-term visit position

May 1989	Invited visiting scientist, University of Washington
August 1989	Invited visiting scientist, Research Institute for Forestry and Urban Ecology, Wageningen, The Netherlands
1990-1	Visiting Fellow, Research School of Biological Sciences, the Australian National University
1995	Invited visiting fellow, University of Edinburgh, UK
2005-6	Invited visiting scientist, Carnegie Institution of Washington, Stanford, USA
2008	Invited visiting scientist, The National Centre for Atmospheric Research, USA
2018	Invited visitor, LSCE, France

Management

2016 – present	Team leader, land surface modeling
2005 – 2015	Team Leader, Land Surface modelling and carbon cycle, CSIRO
2003 – 2005	Program Leader, Atmosphere and Earth Observation, CSIRO
1997 – 2003	Team Leader, Regional Sources and Sinks, CSIRO

International research profile and impact

- Editor-in-Chief, *Agricultural and Forest Meteorology* since June 2019 -2020
- Associate editor, *Agricultural and Forest Meteorology* since June 2010 -2019
- Editorial board, *Agricultural and Forest Meteorology* (1997-2010)
- Associate Editor, *Global Biogeochemical Cycles* (2020-2023)
- Review board, *Tree Physiology* (1991-2010)
- Review board, *Plant, Cell and Environment* (1995-2010)
- Editorial board, *The Journal of Tropical and Subtropical Botany* since 2003
- Committee member of the WCRP grand challenge on carbon-climate feedback since 2016
- Invited Speaker at 25 international conferences over the last five years
- Conference Organizing and Program Committees (5 over the last five years)
- Member of the American Geophysical Union
- Overseas Assessor of the Chinese Academy of Sciences (2001-present)

- Member of the review panel for the Institute of Geographic Sciences and Natural Resources, Chinese Academy of Sciences (2014)
- Reviewer for *Science*, *Nature*, *PNAS*, *Nature Scientific Report*, *Global Change Biology*, *Journal of Geophysical Research*, *Water Resources Research*, *Geophysical Research Letters*, *Journal of Climate*, *Global Biogeochemical Cycles*, *Biogeosciences*, *Remote Sensing Environment*, *Global Ecology and Biogeography*, *Ecology Letters*, *Journal of Hydrology*, *IPCC AR4 and AR5*
- Proposal reviews for the U.S. National Science Foundation, UK Natural Environment and Research Council, German Science Foundation.

National research profile and impact

- Supervisor of PhD students (9), postdoctoral fellow (5)
- Partner investigator of ARC Centre for Excellence for Climate System Science
- Partner investigator of ARC Discovery Grant: Australian savanna landscape: past, present and future (2012-6).
- Adjunct Professor of University of Technology Sydney (2012-2016)
- Adjunct Professor of the University of New South Wales (2017-2020)
- Member of Science Directional Team, CSIRO Marine and Atmospheric Research (2005-7)
- Member of Science Advisory Group, Australian Community Earth System Simulator (2006-13)
- Assessor of the Office of the Chief Executive postdoctoral fellowship proposals (2013)

Graduate students supervised

PhD

Alison Laining (University of Melbourne)
 Gab Abramowitz (Macquarie University)
 Alex Norton (University of Melbourne)
 Wenjuan Huang (Chinese Academy of Sciences)
 Qian Zhang (Beijing Normal University)
 Xingjie Lu (Beijing Normal University)
 Jianduo Li (Beijing Normal University)
 Xuanze Zhang (Beijing Normal University)
 Katrin Fleischer (University of Amsterdam)
 Shuo Zhang (Chinese Academy of Sciences)
 Yang Chen (Chinese Academy of Sciences)
 Zhongbing Chang (Chinese Academy of Sciences)

MSc

Lingxue Ma (Chinese Academy of Sciences)
 Shenhua Wang (Chinese Academy of Sciences)

Postdoctoral fellows supervised

Bernard Pak
William Sea
Lei Cheng
Longhui Li
Xingjie Lu
Jun Jiang

Invited speaker (last five year only, all expenses externally funded)

- Global Change, Biodiversity and Ecological Forecasting, 26-30 June 2019, Yuanan University, Kunming, China.
- Invited speaker, Invited speaker, International workshop on carbon, nitrogen, water cycle and climate change in forest ecosystem, 14-17th May 2019, Xishuangbanna Tropical Botanical Garden, Yunan, China
- Chinaflux workshop, 13-15th April, South China Normal University, Guangzhou, China.
- the second international workshop on the human-earth system dynamics and modeling, Beijing, China 22-23 October 2018.
- Invited speaker, International workshop on Global change and ecological forecast, Central China Agriculture University, Wuhan, 26-30th July 2018.
- Invited lectures, Mini-symposium and short training course on new advances in land carbon cycle modeling. 19-26, May 2018. Flagstaff, Arizona, USA
- Invited speaker, International workshop on the Human-Earth System dynamics and modeling. 27-28 November 2017, Beijing
- Invited speaker and session chair, International workshop on response and feedback of forest ecosystem carbon, nitrogen and water cycles to climate change, 12-15th October 2017, Xishuangbanna, Yunan, China
- Invited speaker and session chair,
- Invited keynote speaker, Chinaflux 15th Anniversary (17-19th August, Beijing China)
- Distinguished lecturer, AOGS Singapore 8 to 15 August 2017.
- AMAZON-FACE workshop: Munich Germany 10-12 July 2017
- Data-model integration, Hanzhou, China 18 to 21 May 2017
- Integrating physiological and ecological observations into global land models. 20-26th March 2017, Guang Zhou China
- The first kickoff meeting on the new grand challenge” carbon feedbacks in the climate system” (November 2016, Hamburg, Germany).
- AMAZON-FACE Modelling workshop (October 2016, San Paolo, Brazil)
- Global nutrient limitation on land workshop (15-17 June 2016, Yangling, Shaanxi, China)
- The response of ecosystem processes to different approaches of nitrogen addition (11-12 June 2016, Xianyang, Henan China)
- The second International Land Model Benchmarking workshop (May 2016, Washington DC, USA)
- Phosphorus model-measurement workshop (May 2016, Townsend, Tennessee, USA)
- Processes Linked to Uncertainty Modeling Ecosystems, PLUME-MIP workshop, 25-29 September 2015 Shanghai China
- Terrestrial carbon cycle and nonautonomous systems (August 2015, Baltimore, USA)

- Terrestrial carbon cycle and nonautonomous systems (July 2015, Knoxville, USA)
- Uncertainties in global land models (May 2015, Beijing, China)
- Climate models revisited: the biogeochemical consequences of mycorrhizal dynamics (April 2015, Amsterdam, The Netherlands)
- A pre-decadal survey workshop: the carbon-climate system (March 2015, Oklahoma)
- NimBIOS non-autonomous systems of terrestrial carbon cycle (November 2014) (Knoxville, USA)
- RCN soil carbon workshop (Breckenridge, Colorado, 12 to 14th June 2014)
- INTERFACE workshop, Beijing (2014)
- NimBIOS non-autonomous systems of terrestrial carbon cycle (March 2014) (Knoxville, USA)
- The National Centre for Atmospheric Research, Advanced Study Program and Colloquium, Boulder, CO, USA (July-August 2013)
- The 7th International Symposium on Modern Ecology, Guang Zhou, China (July 2013)
- NIMBIOs non-autonomous systems of terrestrial carbon cycle workshop, Knoxville, TN, USA (April 2013)
- Invited lecturer, Cornell University (February 2013)
- FACE II: model benchmarking. San Francisco (December 2012)
- Face: model-data workshop, Oak Ridge, November 2011

Conferences/workshops organised (last five year only)

- Nutrient limitation on land: how accurate are our global land models? (15-17 June 2016 Yangling, China)
- Coupled Modeling and prediction: from weather to Climate (19-22 October 2015, Melbourne, Australia)
- Uncertainties in global land models (May 2015, Beijing, China)
- AOGS-AGU Singapore conference (August 2012).
- OCE cutting edge symposium (June 2012)

Research Funding

1990-2, Australian Research Council (PI),	\$400,000
1992-4, State department of Environment of Victoria (co-PI),	\$250,000
1994-6, State department of Environment of Victoria (co-PI),	\$200,000
1995-7, RIRDC, Australia (co-PI),	\$600,000
1998-2014, Australian Greenhouse Office (PI)	\$3,750,000
2001-04, CSIRO Chief Executive Office (PI)	\$360,00
2010-13, CSIRO Chief Executive Office (PI)	\$360,00
2013-16, CSIRO Chief Executive Office (PI)	\$360,00
2011-17, Centre for Excellence, ARC (co-PI)	\$21,400,000
2014-17, ARC Discovery Project (co-PI)	\$1,200,000
2016-19, National Environmental Science Program (PI)	\$900,000
2017 CSIRO Research Office (PI)	\$23,000
2017-23, Centre for Excellence, ARC (co-PI)	\$30,050,000

List of publications

Publication statistics (as of 22nd March 2019)

- 186 peer reviewed journal papers including 22 papers in Science, PNAS, Nature and Nature family journals, and 12 book chapters
 - 13 highly cited papers in the field based on web of science
 - Paper of the week in Nature, 2009, 462:700, News and view in Nature Climate Change, 2008, 1:421-422
 - Web of Science citation: >9000 and h-index =49; Google Scholar citation >14500 and h-index of 59.
 - Highly cited researcher in the world (2018, 2019)
- (<https://publons.com/dashboard/records/award/certificate/hcr/6595/>).

Refereed book chapters

1. Kowalczyk EA, **Wang YP**, Law RM, Davies HL, McGregor JL, Abramowitz GS (2006) *The CSIRO Atmosphere Biosphere Land Exchange (CABLE) model for use in climate models and as an offline model*. In: Aspendale, Vic.: CSIRO Marine and Atmospheric Research.
2. **Wang YP**, McMurtrie R, Medlyn BE, Pepper D (2006) Issues in modelling plant ecosystem responses to elevated CO₂: interactions with soil nitrogen. In: Morison, J.; Morecroft, M., editor/s. *Plant growth and climate change*. Oxford: Blackwell; p165-186.
3. **Wang YP**, Leuning R, Isaac P, Zhou G. (2001) Scaling the estimate of maximum canopy conductance from patch to region and comparison of aircraft measurements. In: Mencuccini, M.; Grace, J.; Moncrieff, J.; McNaughton, K. G. editors, editor/s. *Forests at the land-atmosphere interface*. Wallingford: CABI Publishing; 2004. 175-188.
4. Galbally IE, Meyer CP, **Wang YP**, Weeks IA, Elsworth CM, Smith C, et al. (1996) *Greenhouse gas exchange and land use change in the Mallee in north western Victoria: final report to the Greenhouse Program, Environmental Protection Authority Victoria*. In: Aspendale: CSIRO Division of Atmospheric Research; 1996.
5. **Wang YP** Assessing the impact of climate change on grain production: some key issues. In: *Impacts of climate change on Australian grain production*. Kew, Vic.: Read Sturgess and Associates; 1996. Appendix 4.
6. **Wang YP** (1994). Models for assessing the impact of climatic change on forests. pp 133-136. In: A. J. Jakeman & A.B. Pittock (Editors) "*Climate Impact Assessment Methods for Asia and the Pacific*". Australian International Development Assistance Bureau.
7. Galbally IE, Meyer CP, **Wang YP**, Weeks IA, Tolhurst KG, Tomkins K, et al. (1993) *Research project: The enhanced emissions of greenhouse gases from soil following prescribed burning in a southern eucalyptus forest. First progress report to the Greenhouse Program, Environment Protection Authority of Victoria*. In: Mordialloc, Vic.: CSIRO Division of Atmospheric Research; 1993.

8. Fowler AM, **Wang YP**, Pittock AB, Mitchell CD (1992) *Regional impact of the enhanced greenhouse effect on New South Wales: annual report, 1991-92*. In: Bankstown, N.S.W.: N.S.W. Environment Protection Authority; 1992.
9. **Wang YP**, McMurtrie RE, Landsberg JJ. Modelling canopy photosynthetic productivity. In: Baker, N. R.; Thomas, H. editors, editor/s. *Crop photosynthesis: spatial and temporal determinants*. Amsterdam: Elsevier; 1992. 43-67.
10. **Wang YP**, Gifford RM, Farquhar GD, and Wong SC. (1991). Direct effect of elevated CO₂ on canopy leaf area development of a wheat crop from sowing to anthesis. In: *Proceedings: climatic variation and change: implications for agriculture in the Pacific Rim*, University of California – Davis, University of Melbourne, S. Geng, and C. W. Cady (editors). Davis, Calif.: Public Service Research and Dissemination Program, University of California - Davis. p. 19-26.
11. **Wang YP**, Jarvis PG. (1990) Effect of incident beam and diffuse radiation on PAR absorption, photosynthesis and transpiration of Sitka spruce: a simulation study. In: Jozefek, H. editor, editor/s. *Modelling to understand forest functions*. Joensuu, Finland: Joesuun yliopisto; p 167-180.
12. Jarvis PG, **Wang YP**, Borralho NMG & Pereira JS. (1989). Simulation of the role of stress on radiation absorption, assimilation, transpiration and water use efficiency of stands of *Eucalyptus globulus*. pp 169-180. In: J.S. Pereira and J.J. Landsberg (Editors) "*Biomass production by Fast-Growing Trees, NATO ASI Series, Vol 166*". Kluwer Academic Press, Dordrecht/ Boston/ London.

Refereed papers (** most significant papers; § highly cited)

2020

1. Du Y, **Wang YP**, Su FL, Jiang J, Wang C, Yu MX and Yan JH (2020). The response of soil respiration to precipitation change in asymmetric and differs between grasslands and forest. *Global Change Biology*, doi:10.1111/GCB.15270.
2. Mori T, Zhou K, Wang C, Wang S, **Wang Yingping**, Zheng M, Lu X, Zhang W, Mo J (2020), Effects of 14-year continuous nitrogen addition on soil arylsulfatase and phosphodiesterase activities in a mature tropical forest, *Global Ecology and Conservation* (2020), <https://doi.org/10.1016/j.gecco.2020.e00934>.
3. Paschalis A, Fatichi S, Zscheischler J, Ciais P, Bahn M, Boysen L, Chang JF, de Kauwe M, Esiarte M, Goll D, Hanson PJ, Harper AB, Hou EQ, Kigel J, Knapp AK, Larsen KS, Li W, Lierert S, Luo YQ, Meir P, Nabel J, Ogaya R, Parolari AJ, Peng CH, Penuelas J, Pongratz J, Sambal S, Schmidt IK, Shi H, Sternberg M, Tain HQ, Tschumi E, Ukkola A, Vicca S, Viovy N, **Wang Ying-Ping**, Wang ZN, Williams K, Wu DH, Zhu Q (2020) Rainfall-manipulation experiments as simulated by terrestrial biosphere models: where do we stand? *Global*

Change Biology, <https://doi.org/10.1111/gcb.15024>.

- Zhang HC, Goll DS, **Wang Ying-Ping**, Ciais P, Wieder WR, Abramoff R, Huang YY, Guenet B, Prescher AK, Rossel RAV, Barre P, Chenu C, Zhou GY and Tang XL (2020) Microbial dynamics and soil physiochemical properties explain large scale variations in soil organic carbon. *Global Change Biology*, <https://doi.org/10.1111/gcb.14994>.

2019

- Yu MX, **Wang Ying-Ping**, Baldock JA, Jiang J, Mo JM, Zhou GY and Yan JH (2019) Divergent responses of soil organic carbon accumulation to 14 years of nitrogen addition in two typical subtropical forests. *Science of Total Environment*, <https://doi.org/10.1016/j.scitotenv.2019.136104>.
- Peng J, **Wang Ying-Ping**, Houlton BZ, Dan L, Pak B and Tang XB (2019) Global carbon sequestration is highly sensitive to model-based formulations of nitrogen fixation. *Global Biogeochemical Cycles*, 34, e2019GB006296. <https://doi.org/10.1029/2019GB006296>.
- He PC, Gleason SM, Wright IJ, Weng ES, Liu H, Zhu SD, Lu MZ, Luo Q, Li RH, Wu GL, Yan ER, Song YJ, Mi XC, Hao GY, Reich PB, **Wang YP** and Ye Q (2019). Growing-season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. *Global Change Biology*, doi: 10.1111/GCB.14929
- Su Y, Liu L, Wu J, Chen X, Shang J, Ciais P, Zhou G, Laforzezza R, **Wang Ying-Ping**, Yuan W, Wang Y, Zhang H, Huang G and Huang N (2019) Quantifying the biophysical effects of forests on local air temperature using a novel three-layered land surface energy balance model. *Environmental International*. ,132:105080, <https://doi.org/10.1016/j.envint.2019.105080>.
- *Yuan WP, Zheng Y, Piao SL, Ciais P, Lombardozzi D, **Wang YP**, Ryu Y, Chen GX, Dong WJ, Hu ZM, Jain AK, Jiang CY, Kato E, Li SH, Lienert S, Liu SG, Nabel JEMS, Qin ZC, Quine T, Sitch S, Smith WK, Wang F, Wu CY, Xiao ZQ, and Yang S (2019). Increased atmospheric vapor pressure deficit reduces global vegetation growth. *Science Advances*, Vol. 5, no. 8, DOI: 10.1126/sciadv.aax1396.
- **Song J, Wan SQ, Piao SL, Knapp AK, Classen AT, Vicca S, Ciais P, Hovenden MJ, Leuzinger S, Beier C, Kardol P, Xia JY, Liu Q, Ru JY, Zhou ZX, Luo YQ, Guo DI, Langley JA, Zscheischler J, Dukes JS, Tang JW, Chen JQ, Hofmockel KS, Kueppers LM, Rustad L, Liu LL, Smith MD, Templer PH, Thomas RQ, Norby RJ, Phillips RP, Niu SL, Fatichi S, **Wang YP**, Wang DD, Lei LJ, Wang JL, Li XN, Zhang Q, Han HY, Shao PS, Li XM, Su FL, Liu B, Yang F, Ma GG, Li GY, Liu YC, Liu YZ, Yang ZL, Zhang KS, Miao Y, Hu MJ, Yan C, Zhang A, Zhong MX, Hui Y, Li Y and Zheng MM (2019) A synthesis of global change manipulative experiments: What have we learned? *Nature Ecology and Evolution*, <https://doi.org/10.1038/s41559-019-0958-3>.
- Yu, MX, **Wang Yingping**, Jiang J, Wang C, Zhou GY and Yan JH (2019) Soil organic carbon stabilization in the three subtropical forests: importance of clay and metal oxides. *Journal of Geophysical Research (biogeosciences)*, <https://doi.org/10.1029/2018JG004995>.
- **Fleischer K, Rammig A, Walker AP, de Kauwe M, Domingues T, Fuchslueger L, Garcia S, Goll D, Grandis A, Jiang M, Haverd V, Hofhansl F, Holm J, Kruijt B, Leung F, Medlyn B, Mercado L, Norby R, Pak B, Quesada QA, von Randow C, Schaap K, Valverde O, **Wang Y-P**, Yang X, Zaehle S, Zhu Q, Lapola DM (2019). Amazon carbon sink hinges on phosphorus use and acquisition strategies *Nature Geosciences*, <https://doi.org/10.1038/s41561-019-0404-9>.
- Norton AJ, Rayner PJ, Koffi EN, Scholze M, de Silver J and **Wang Ying-Ping** (2019). Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model. *Biogeosciences*, 16, 3069-3093,

doi.org/10.5194/bg-16-3069-2019.

14. Song H, Zhang K, Piao SL, Loi LL, **Wang Ying-Ping**, Chen YM, Yang ZL, Zhu L and Wan SQ (2019) Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. *Atmospheric Environment*, 213:585-596, <https://doi.org/10.1016/j.atmosenv.2019.06.043>.
15. Xia JZ, Yuan Wenping, Lienert S, Joos F, Ciais P, Viovy N, **Wang Ying-Ping**, Wang XF, Zhang HC, Chen Y, Tian X (2019) Global patterns in net primary production allocation regulated by environmental conditions and forest stand age: a model-data comparison. *Journal of Geophysical Research: Biogeosciences*, 124. <https://doi.org/10.1029/2018JG004777>.
16. Fleischer K, Dolman AJ, van der Molen, MK, Rebel KT, Erisman JW, Wassen MJ, Pak B, Lu XJ and **Wang Ying-Ping** (2019). Nitrogen deposition maintains a positive effect on terrestrial carbon sequestration in the twenty-first century despite growing phosphorus limitation at regional scales. *Global Biogeochemical Cycles*, doi:10.1029/2018GB005952.
17. Zhang, X. Z., Shushi Peng, Philippe Ciais, **Ying-Ping Wang**, Jeremy D. Silver, Shilong Piao, and Peter J. Rayner. 2019: Greenhouse gas concentration and volcanic eruptions controlled the variability of terrestrial carbon uptake over the last millennium. *Journal of Advances in Modeling Earth Systems*, doi:10.1029/2018MS001566.
18. Jiang J, **Wang Ying-Ping**, Yang YH, Yu MX, Wang C, and Yan JH (2019) Interactive effects of nitrogen and phosphorous additions on plant growth vary with ecosystem types. *Plant and Soil*, 1-15, <https://doi.org/10.1007/s11104-019-04119-5>.
19. Lei LJ, Zhang KS, Zhang XA, **Wang YP**, Xia JY, Piao SL, Hui DF, Zhong MX, Ru JY, Zhou ZX, Song HQ, Yang ZL, Wang D, Miao Y, Yang F, Lin B, Zhang A, Yu MY, Liu XH, Song YS, Zhu LL and Wan SQ (2019) Plant feedback aggravates soil organic carbon loss associated with wind erosion in Northwest China. *Journal of Geophysical Research (biogeosciences)*, 124,825-839, <https://doi.org/10.1029/2018JG004804>.
20. Wang J, Xia JY, Zhou XH, Huang K, Zhou J, Huang YY, Jiang LF, Xu X, Liang JY, **Wang Ying-Ping**, Cheng Xiao-li, Luo Yiqi (2019) Evaluating the simulated mean soil carbon transit times by Earth System Models using observations. *Biogeosciences*, 16:917-926. <https://doi.org/10.5194/bg-16-917-2019>.
21. ****Walker AP, De Kauwe MG, Medlyn BE, Zaehle S, Iversen C, Asao S, Guenet B, Harper A, Hickler T, Hungate BA, Jain A, Luo YQ, Lu XJ, Lu M, Luus K, Magonigal P, Oren R, Ryan E, Shu SJ, Talhelm A, Wang YP, Warren JM, Werner C, Xia JY, Yang B, Zak DR, Norby RJ** (2019) Decadal biomass increment in early secondary successional woody ecosystems is increased by CO₂ enrichment. *Nature Communications*, 10:454, <https://doi.org/10.1038/s41467-019-08348-1>.

2018

22. Li Zhao, Xia Jianyang, Ahlstrom Anders, Rinke Annette, Koven Charles, Hayes Daniel, Ji Duoying, Zhang Geli, Krinner Gerhard, Chen Guangsheng, Cheng Wanying, Dong Jinwei, Liang Junyi, Moore John, Jiang Lifen, Yan Liming, Ciais Philippe, Peng Shushi, **Wang Ying-Ping**, Xiao Xiangming, Shi Zheng, McGuire A, Luo Yiqi (2018) Non-uniform seasonal warming regulates vegetation greening and atmospheric CO₂ amplification over northern land. *Environmental Research Letters*, 13(12), article 124008, doi: 10.1088/1748-9326/aae9ad.
23. Vicca S, Stocker B, Reed S, Wieder W, Bahn M, Fay P, Jassens I, Lambers H, Penuelas J, Piao SL, Rebel K, Sigurdsson B, van Sundert K, **Wang Ying-Ping**, Ciais P, Zaehle S, Sardans J (2018) Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. *Environmental Research Letters*, 13(12), article 12560, <https://doi.org/10.1088/1748-9326/aaeae7>.

24. Peng J, Li D, **Wang YP**, Tang XB, Yang XJ, Yang FQ, Lu XJ and Pak B (2018) Role contribution of biological nitrogen fixation to future terrestrial net land carbon accumulation under warming condition at centennial scale. *Journal of Cleaner Production*, 202:1158-1166.
25. Jiang J, **Wang Y-P**, Yu M, Cao N and Yan JH (2018) Soil organic matter is important for acid buffering and reducing aluminium leaching from acidic forest soils. *Chemical Geology*, 501:86-94.
26. Li Qianyu, **Wang Yingping**, Huang Xin, Cox Peter M and Luo Yiqi (2018) Leaf area index identified as a major source of variability in modelled CO₂ fertilization. *Biogeosciences*, 15(22):6909-6925.
27. ****Huang K, Xia JY, Wang YP, Ahlstrom A, Schwalm C, Huntzinger DN, Chen JQ, Cook R, Cio EQ, Fang YY, Fisher JB, Li Z, Michalak AM, Schaefer K, Wei YX, Xu XM, Yan LM, Luo YQ (2018) Enhanced vegetation growth peak: key mechanisms and impacts. *Nature Ecology and Evolution*, 2(12):1897-1903, DOI: 10.1038/s41559-018-0714-0.**
28. Lu XJ, **Wang Ying-Ping**, Luo YP, Jiang LF (2018) Ecosystem carbon transit versus turnover times in response to climate warming and rising atmospheric CO₂ concentration. *Biogeosciences*, 15(21), 6559-6572.
29. Wang YL, Ciais, P, Goll D, Huang YY, Luo YQ, **Wang Y-P**, Bloom AA, Broquet G, Hartmann J, Peng SS, Penuelas J, Piao SL, Sardans J, Stocks BD, Wang R, Zaehle S, Zechmeister-Boltenstern S (2018). GOLUM-CNP v1.0: a data-driven modelling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. *Geoscientific Model Development*, <https://doi.org/10.5194/gmd-2018-23>,11:3903-3928.
30. ****Liang JY, Zhou ZG, Huo CF, Shi Z, Cole JR, Huang L, Konsratinidis KT, LI XM, Liu B, Luo ZK, Penton CR, Schuur EAG, Tiedje JM, Wang YP, Wu LY, Xia JY, Zhou JZ, Luo YQ (2018) More replenishment than priming loss of soil organic carbon with additional carbon input. *Nature Communications*, 9, doi:10.1038/s41467-018-05667-7.**
31. Zhang XZ, **Wang YP**, Peng SS, Rayner PJ, De Silver J, Ciais P, Zhu ZC, Lu XJ and Zheng XG (2018) Attribution of temporal variation in the terrestrial carbon sink: dominant regions and their drivers. *Global Change Biology*, doi: 10.1111/gcb.14275.
32. Hu, ZM, Shi H, Cheng KL; **Wang YP**, Piao SL, Li Y, Zhang L, Xia JY, Zhou L, Yuan WP, Running SW, Li LH, Hao YB, He NP, Yu Q and Yu GR. (2018). Joint Structural and physiological determinant of inter-annual variation in productivity in a temperate grassland: a data-model comparison. *Global Change Biology*, doi: 10.1111/gcb.14274.
33. Wu DH, Ciais P, Viovy N, Knapp A, Wilcox K, Bahn M, Smith M, Vicca S, Fatichi S, Zscheishler J, He Y, Li XY, Ito A, Arneth A, Harper A, Ukkola A, Paschalis A, Poulter B, Peng CH, Ricciuto D, Reinthaler D, Chen GS, Tian HQ, Genet H, Mao JF, Ingrisch J, Nabel J, Pongratz J, Boysen L, Kautz M, Schmitt M, Meir P, Zhu Q, Hasibeder R, Sippel S, Dangal S, Sitch S, Shi XY, **Wang YP**, Luo YQ, Liu YW, Piao SL (2018) Asymmetric Responses of Primary Productivity to Altered Precipitation Simulated by Ecosystem Models across Three Long-term Grassland Sites. *Biogeosciences*15:3421-3437.
34. Li LH, **Wang YP**, Arora VK, Eamus D, Shi H, Li J, Cheng L, Cleverly J, Jajima T, Ji DY, Jones C, Kawamiya M, Li WP, Tjiputra J, Wiltshire A, Zhang L and Yu Q (2018) Evaluating global land surface models in CMIP5: analysis of ecosystem water- and light-use efficiency and water use partitioning. *Journal of Climate*, doi:10.1175/JCLI-D-16-0177.1.
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