**CURRICULUM VITAE**

**PROF. DR. NING WU**

**Family Name**: Wu **First Name**: Ning **Sex**: Male

**Nationality**: Chinese

**Affiliation and Position:** Director General, Professor, Chengdu Institute of Biology, Chinese Academy of Sciences

**Working Address:** No 9 of 4th Section, Renminnan Road, Chengdu 610041, Sichuan, China

**Academic expertise:**

1. Biodiversity conservation and ecosystem services; (2) Ecological restoration and ecosystem management; (3) Mountain ecology and wetland ecology; (4) climate change and GHG emission; (5) Transboundary conservation and regional development.

**Education experience:**

1981-1985: Sichuan University, China; BSc in Botany;

1988-1991: Graduate School of Chinese Academy of Sciences, China; MSc in ecology;

1991-1996: Free University Berlin, Germany; PhD in geography.

**Working experience:**

1996-1999: Chengdu Institute of Biology, Chinese Academy of Sciences; Associate Professor, Professor, Head of Ecology Department;

1999-2001: Free University Berlin, Centre for Development Studies; Research Fellow of Alexander von Humboldt Foundation, Postdoctoral researcher;

2001-2011: Chengdu Institute of Biology, Chinese Academy of Sciences; Professor, Director Assistant, Executive Deputy Director, Director-General.

2002: Otago University, New Zealand, visiting scholar in Botany Department.

2003: Basel University, Switzerland, visiting scholar in Botany Department.

2011-2018: International Centre for Integrated Mountain Development (ICIMOD), Nepal; Theme Leader of Ecosystem Services, Chief Scientist.

2018 ongoing: Chengdu Institute of Biology, Chinese Academy of Sciences; Professor, Director General.

**Engagement experience in IPBES:**

2015 – 2018: IPBES CLA of Chapter Four of Asia-Pacific Assessment on Biodiversity and Ecosystem Services;

2018 ongoing: IPBES Multidisciplinary Expert Panel (MEP) member;

2019 ongoing: Member of Management Committee, Assessment of Sustainable Use of Wild Species, IPBES;

2019-2020: Member of Scientific Steering Committee, IPBES-IPCC co-sponsored workshop on Biodiversity and Climate Change.

**Other relevant engagement:**

2004 ongoing: Chief Editor, Chinese Journal of Environmental and Applied Biology;

2011-2018: Organizational Focal Point for Ramsar Convention, ICIMOD;

2012: Delegate of observer (ICIMOD) participating in CBD COP12;

2013: Delegate of observer (ICIMOD) participating in Ramsar COP11;

2015: Delegate of observer (ICIMOD) participating in CBD COP13;

2016: Delegate of observer (ICIMOD) participating in Ramsar COP12;

2016-2019: CLA of Chapter Two of the Hindu Kush Himalaya Assessment – Mountains, Climate Change, Sustainability and People (HIMAP);

2019-2021: Member of CBD IAG on mainstreaming;

2021: National delegate of China participating in CBD COP15.

**Awards:**

2010: “National Excellent Scientist and Technologist”, by China Association for Science and Technology;

2008: “Scholar with Outstanding Contribution in Western China”, by Chinese Academy of Sciences;

2003: “Excellent Young Scholar in Qinghai-Tibet Plateau”, by China Research Association of Qinghai-Tibet;

2003: “National Excellent Oversea Returnee”, by Ministry of Human Resource of China, Ministry of Education of China.

**Selected publications since 2010:**

1. Wang, C.; Wang, J.; Naudiyal, N.; **Wu, N.**; Cui, X.; Wei, Y.; Chen, Q. (2022). Multiple Effects of Topographic Factors on Spatio-Temporal Variations of Vegetation Patterns in the Three Parallel Rivers Region, Southeast Qinghai-Tibet Plateau. ***Remote Sens***., 14, 151. https://doi.org/ 10.3390/rs14010151
2. Zhong B., Wu S., Sun G. and **Wu N.** (2022). Farmers’ strategies to climate change and urbanization: Potential of ecosystem-based adaptation in rural Chengdu Plain, Southwest China. ***International Journal of Environmental Research and Public Health***, 19, 952. https://doi.org/10.3390/ ijerph19020952
3. Dan Zhu, **Ning Wu**, Nabin Bhattarai, Krishna Prasad Oli, Huai Chen, Gopal Singh Rawat, Irfan Rashid, Maheshwar Dhakal, Srijana Joshi, Jianqing Tian, Qiu’an Zhu, Sunita Chaudhary, Kuenzang Tshering (2021). Methane emissions respond to soil temperature in convergent patterns but divergent sensitivities across wetlands along altitude. ***Global Change Biology***, 27:941-955. doi: 10.1111/GCB.15454
4. Niyati Naudiyal, Jinniu Wang, **Wu Ning**, Narayan Prasad Gaire, Shi Peili, Wei Yanqiang, He Jiali, Shi Ning (2021). Potential distribution of Abies, Picea, and Juniperus species in the sub-alpine forest of Minjiang headwater region under current and future climate scenarios and its implications on ecosystem services supply. ***Ecological Indicators***, 121: 107131. https://doi.org/10.1016/j.ecolind.2020.107131
5. Jinniu Wang, Jing Gao, Yan Wu, Bo Xu, Fusun Shi, Haiyan Zhou, Neha Bisht and **Ning Wu**. (2021) Effects of Heterogeneous Environment After Deforestation on Plant Phenotypic Plasticity of Three Shrubs Based on Leaf Traits and Biomass Allocation. ***Frontiers in Ecology and Evolution***. doi: 10.3389/fevo.2021.608663
6. Huai Chen, Xinwei Liu, Dan Xue, Dan Zhu, Wei Zhan, Wei Li, **Ning Wu**, Gang Yang (2021). Methane emissions during different freezing-thawing periods from a fen on the Qinghai-Tibetan Plateau: Four years of measurements. ***Agricultural and Forest Meteorology***, 297: 108279
7. Deepa Basnet, Yang Jianmei, Tashi Dorji, Xiao Qianli, Anu Kumari Lama, Yue Maowei, **Wu Ning**, Wei Yantao, Kamala Gurung, Li Rujun, Nishikant Gupta, Khilendra Singh Kanwal, and Yi Shaoliang (2021). Bird Photography Tourism, Sustainable Livelihoods, and Biodiversity Conservation: A Case Study from China. ***Mountain Research and Development***, 41(2): 1-9. https://doi.org/10.1659/MRD-JOURNAL-D-19-00054.1
8. Jinniu Wang, Bo Xu, Yan Wu, Jing Gao, Fusun Shi, **Ning Wu** (2021). Effect of inflorescence litter from distinct species and life forms on soil nutrients and microbial biomass in the eastern Tibetan Plateau. ***Global Ecology and Conservation***, 31, <https://doi.org/10.1016/j.gecco.2021.e01825>
9. Nannan Zhang, Ziyan Liao, Shuang Wu, Michael Peter Nobis, Jinniu Wang, **Ning Wu** (2021). Impact of climate change on wheat security through an alternate host of stripe rust. ***Food and Energy Security***. DOI: 10.1002/fes3.356
10. Srijana Joshi, Lily Shrestha, Neha Bisht, Wu Ning, Muhammad Ismail, Tashi Dorji, Gauri Dangol and Ruijun Long (2020). Ethnic and Cultural Diversity amongst Yak Herding Communities in the Asian Highlands. ***Sustainability***, 12, 957; doi:10.3390/su12030957
11. Li W, Chen H, Yan Z, Yang G, Rui J, **Wu N** and He Y (2020). Variation in the Soil Prokaryotic Community Under Simulated Warming and Rainfall Reduction in Different Water Table Peatlands of the Zoige Plateau. ***Front. Microbiol***., 11:343. doi: 10.3389/fmicb.2020.00343
12. Wu S., **Wu N.**, Zhong B. (2020). What ecosystem services flowing from linpan system – A cultural landscape in Chengdu Plain, southwest China. ***Sustainability***, 12(10), 4122; doi:10.3390/su12104122
13. SHI Peili, **WU Ning**, Gopal S. RAWAT (2020). The Distribution Patterns of Timberline and Its Response to Climate Change in the Himalayas. ***Journal of Resources and Ecology***, 11(4): 342-348.
14. Wang YF, **Wu N.**, Kunze C., Long RJ, Perlik M. (2019). Drivers of change to mountain sustainability in the Hindu Kush Himalaya, Chapter 2. In: Wester P., Mishra A., Mukherji A., Shrestha A.B. (eds.), The Hindu Kush Himalaya Assessment – Mountains, Climate Change, Sustainability and People. Springer Nature, Dordrecht.
15. Zeng, L., Tian, J., Chen, H., **Wu, N**., Yan, Z., Du, L., . . . Wang, X. (2019). Changes in methane oxidation ability and methanotrophic community composition across different climatic zones. ***Journal of Soils and Sediments***, 19(2), 533-543. doi:10.1007/s11368-018-2069-1
16. Bhatta, D. B., Shrestha A., Neupane N., Jodha N. S., and **Wu N.** (2019). Shifting dynamics of nature, society and agriculture in the Hindu Kush Himalayas: Perspectives for future mountain development. ***J. Mt. Sci.***, 16(5): 1133-1149. https://doi.org/10.1007/s11629-018-5146-4
17. Mei Wanga, Wenbing Yang, **Ning Wu**, Yan Wu, Peter Lafleure, Tao Lua (2019). Patterns and drivers of soil carbon stock in southern China’s grasslands. ***Agricultural and Forest Meteorology***, 276-277 (2019) 107634.
18. Zhang, N.N., Sun G., Zhong B., Wang E.T., Zhao C.Z., Cheng W. & **Wu, N**. (2019). Impacts of wise grazing on physicochemical and biological features of soil in a sandy grassland on the Qinghai–Tibetan Plateau. ***Land Degradation & Development***, 1(3). LDD-18-0621.R3
19. **Wu Ning**, Wang CY, Ausseil A.G., Alhafedh Y., Broadhurst L., Lin H.J., Axmacher J. C., Okubo S., Turney C., Onuma A., Chaturvedi R. K., Kohli P., Apadodharan S.K., Abhilash P. C., Settlele J., Claudet J., Yumoto T. (2018). *Direct and Indirect drivers of change in biodiversity and nature’s contributions to people (Chapter 4)*, 265-370. In: Karki, M., Senaratna Sellamuttu, S., Okayasu, S., and Suzuki, W. (eds)., The IPBES regional assessment report on biodiversity and ecosystem services for Asia and the Pacific. Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany. 612 pages.
20. IPBES (2018). Summary for policymakers of the regional assessment report on biodiversity and ecosystem services for Asia and the Pacific of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. M. Karki, S. Senaratna Sellamuttu, S. Okayasu, W. Suzuki, L. Acosta, Y. Alhafedh, J. A. Anticamara, A. G. Ausseil, K. Davies, A. Gasparatos, H. Gundimeda, I. Faridah-Hanum, R. Kohsaka, R. Kumar, S. Managi, **N. Wu**, A. Rajvanshi, G. S. Rawat, P. Riordan, S. Sharma, A. Virk, C. Wang, T. Yahara and Y. Youn (eds.). IPBES secretariat, Bonn, Germany. 41 pages.
21. Shrestha, B.B., Joshi, S., Bisht, N., Yi, S., Kotru, R., Chaudhary, R.P. & **Wu, N**. (2018). Inventory and impact assessment of invasive alien plant species in Kailash Sacred Landscape. ICIMOD Working Paper 2018/2. Kathmandu: ICIMOD.
22. Bhatta L. D., **Wu N**., Udas E., Agrawal N. K., Ranabhat S. and Basnet D (eds.). (2018). Wetlands in the Himalaya: Securing services for livelihoods. Special Publication. Kathmandu, ICIMOD.
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31. Yi Shaoliang, Gopal Rawat, **Wu Ning**, Rajan Kotru, Nakul Chettri, et al. (2017). Framework for Integrated Ecosystem Management in the Hindu Kush Himalayan Region. Kathmandu, ICIMOD.
32. Aryal K., Poudel S., Chaudhary R. P., Chettri N., **Wu N.**, Yi S. L., and Kotru R. (2017). Conservation and management practices of traditional crop genetic diversity by the farmers: A case from Kailash Sacred Landscape, Nepal. ***The Journal of Agriculture and Environment***, 18: 15-28.
33. Wang, J., Gao, J., Wu, Y., Jian, S., Xu, B., Shi, F., Bisht, N., Xu, J., and **Wu, N**. (2017). Biomass allocation and tradeoffs of Pedicularis longiflora Rudlph at two slope aspects in an alpine meadow of the eastern Tibetan Plateau. ***Applied Ecology and Environmental Research*** (Online) DOI: <http://dx.doi.org/10.15666/aeer/>
34. [Phuntsho, K.](https://www.cabi.org/cabebooks/search/?q=au%3a%22Phuntsho%2c+K.%22), [Rawat, G. S.](https://www.cabi.org/cabebooks/search/?q=au%3a%22Rawat%2c+G.+S.%22), [Rasul, G.](https://www.cabi.org/cabebooks/search/?q=au%3a%22Rasul%2c+G.%22), [**Wu Ning**](https://www.cabi.org/cabebooks/search/?q=au%3a%22Wu+Ning%22) (2017). Policies on shifting cultivation in the countries of the eastern Himalayas (Chapter 17). In: [Cairns, M.](https://www.cabi.org/cabebooks/search/?q=ed%3a%22Cairns%2c+M.%22) (ed.), Shifting cultivation policies: balancing environmental and social sustainability. 310-343. CABI Book. <https://www.cabi.org/cabebooks/ebook/20173323237>
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36. Lucas C. R. Silva, Geng Sun, Xia Zhu-Barker, Qianlong Liang, **Ning Wu**, William R. Horwath (2016). Tree growth acceleration and expansion of alpine forests: The synergistic effect of atmospheric and edaphic change. ***Science Advance***, 2(8) : e1501302 (31 August 2016)
37. Xu, B., Wang, J. N., Shi, F. S., & **Wu, N**. (2016). Relationships between plant colonization and soil characteristics in the natural recovery of an earthquake-triggered debris flow gully in the Wanglang National Nature Reserve, China. ***Journal of Mountain Science***, 13(1), 59-68.
38. Chettri, N., Chaudhary, S., Uddin, K., Sharma, B., Kandel, P., Khatri, T.B., Dhakal, M., **Ning, W.**, Sharma, E. (2016). ‘*An understanding of biodiversity value in a coupled socio-ecological wetland ecosystem- A case study from Koshi Basin, Nepal*’. Chapter 7 in: Doody, T.M., Cuddy, S.M., Bhatta, L.D. (eds) Connecting flows and ecology in Nepal: current state of knowledge for the Koshi Basin. pp 71- 78. Kathmandu: Sustainable Development Investment Portfolio (SDIP) project. CSIRO, Australia.
39. Chaudhary S., Chettri N., Uddin K., Khatri T. B., Dhakal M., Bajracharya B., and **Ning Wu** (2016). Implications of land cover change on ecosystems services and people’s dependency: A case study from the Koshi Tappu Wildlife Reserve, Nepal. ***Ecological Complexity***, 28: 200-211.
40. Kandel P., Gurung J., Chettri N., **Wu N**., Sharma E. (2016). Biodiversity research trends and gap analysis from a transboundary landscape, Eastern Himalayas. ***Journal of Asia-Pacific Biodiversity***, 9: 1-10. DOI: 10.1016/j.japb.2015.11.002.
41. Dan Zhu, Yan Wu, Huai Chen, Yixin He, **Ning Wu** (2016). Intense methane ebullition from open water area of a shallow peatland lake on the eastern Tibetan Plateau. ***Science of the Total Environment***, 542: 57-64.
42. Huai Chen, **Ning Wu**, Changhui Peng, Yanfen Wang (2015): Methane Emissions from Unique Wetlands in China – Case Studies, Meta-analysis and Modeling. Beijing: High Education Publishing House.
43. Shi, C., Silva, L. C. R., Zhang, H., Zheng, Q., Xiao, B., **Wu, N.**, & Sun, G. (2015). Climate warming alters nitrogen dynamics and total non-structural carbohydrate accumulations of perennial herbs of distinctive functional groups during the plant senescence in autumn in an alpine meadow of the Tibetan Plateau, China. ***Agricultural and Forest Meteorology***, 200, 21-29.
44. Changguang Shi, Geng Sun, Hongxuan Zhang, Bingxue Xiao, Bai Ze, Nannan Zhang, **Ning Wu** (2015). Effects of Warming on Chlorophyll Degradation and Carbohydrate Accumulation of Alpine Herbaceous Species during Plant Senescence on the Tibetan Plateau. ***PLOS One***, 9(9): 1-10.
45. Kabir Uddin, Sunita Chaudhary, Nakul Chettri, Rajan Kotru, Manchiraju Murthy, Ram Prasad Chaudhary, **Wu Ning**, Sahas Man Shrestha, Shree Krishna Gautam (2015). The changing land cover and fragmenting forest on the Roof of the World: A case study in Nepal’s Kailash Sacred Landscape. ***Landscape and Urban Planning***, 141:1-10.
46. Wang, M., Yang, G., Gao, Y., Chen, H., **Wu, N**., Peng, C., Zhu, Q., Zhu, D., Wu, J., & He, Y. (2015). Higher recent peat C accumulation than that during the Holocene on the Zoige Plateau. ***Quaternary Science Reviews***, 114, 116-125.
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