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工作单位: 应用气象学院、生态研究院

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主讲课程: 大气环境前沿讲座

主要研究领域: 大气环境及其生态效应

教育背景:

- 1994.9 ~ 1998.7 曲阜师范大学化学系, 获学士学位, 化学教育专业
- 1998.9 ~ 2001.7 兰州大学生命科学院, 获硕士学位, 生态学专业
- 2001.9 ~ 2004.7 中国科学院生态环境研究中心, 获博士学位, 生态学专业

工作经历:

- 2004.7 ~ 2006.6 中国科学院生态环境研究中心, 助理研究员
- 2006.7 ~ 2009.6 中国科学院生态环境研究中心, 副研究员
- 2007.7 ~ 2009.3 东京大学农学院, 日本环境省Eco-Frontier Fellowship 特别研究员
- 2007.8 ~ 2007.10 美国伊利诺伊大学厄巴纳—香槟分校 (University of Illinois at Urban
- 2009.4 ~ 2011.2 东京大学农学院, 日本文部省JSPS 特别研究员

- 2011.3~ 2013.2 瑞典哥德堡大学植物环境系 研究员
- 2013.3 ~2018.12 中国科学院生态环境研究中心, 研究员; 中国科学院大学教授
- 2019.1 ~ 2019.6 南京信息工程大学环境科学与工程学院 教授
- 2019.6 ~ 至今 南京信息工程大学应用气象学院 副院长

学术兼职:

- 日本生态前沿 (Eco-Frontier Fellowship) 和日本学术振兴会 (JSPS) 特别研究员 (2007-2013.2)。SCI杂志《Science of the Total Environment》、《Journal of Agricultural Meteorology》副主编。世界林业组织IUFRO 7.01.02主协调人、中国生态学会污染生态学专业委员会委员、Assessment Report (TOAR) 科学委员会成员。

- 荣誉获奖:

- 中国科学院百人计划项目结题优秀。

- 近期主要论著:

- 总SCI 论文85篇。近5年 (2014-2019) 发表59篇, 其中第一或通讯作者论文36篇, 包括

- 1. Jinlong Peng, Bo Shang, Yansen Xu, Zhaozhong Feng*, Hakan Pleijel, Vicent Calatayud. Yield response relationships for maize. Environmental Pollution, DOI:10.1016/j.envpol.2019.04.012.

- 2. Bo Shang, Xiangyang Yuan, Pin Li, Yansen Xu, Zhaozhong Feng* (2019). Effects of drought on poplar saplings: Changes in carbon and nitrogen stocks and their allocation to different organs. Environmental Pollution, 245: 89–98.

- 3. Zhaozhong Feng*, Xiangyang Yuan, Silvano Fares, Francesco Loreto, Pin Li, Yansen Xu. Isoprene is more affected by climate drivers than monoterpenes: a meta-analytic review. Environmental Pollution, 42, 1939-1949.

- 4. Pin Li, Huimin Zhou, Yansen Xu, Bo Shang, Zhaozhong Feng* (2019). The effect of drought on the growth and allocation of poplar biomass depend strongly on water and nitrogen availability. Science of the Total Environment, 657: 169-178.

- 5. Shuo Liu, Shuangxi Fang*, Miao Liang, Wanqi Sun, Zhaozhong Feng* (2019). Atmospheric carbon monoxide at two background stations in China. Atmospheric Research, 200: 104757.

- 6. Zhaozhong Feng*, Bo Shang, Feng Gao, Vicent Calatayud (2019). Current air quality and its impact on poplar growth: a global meta-analysis and response relationships. Science of the Total Environment, 657: 169-178.

- 7. Yansen Xu, Zhaozhong Feng*, Bo Shang, Lulu Dai, Johan Uddling, Lasse Tarrasch. Ozone limitation of photosynthesis in poplar under elevated ozone. Science of the Total Environment, 657: 169-178.

- 8. Lulu Dai, Zhaozhong Feng*, Xiaodong Pan, Yansen Xu, Pin Li, Allen S Lefohn. Increase of apoplastic ascorbate induced by ozone is insufficient to remove the negative effects of ozone on poplar growth. Environmental Pollution, 245: 380-388.

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- 10. Jin Zhang, Feng Gao, Huixia Jia, Jianjun Hu*, Zhaozhong Feng* (2019). Molecular mechanisms of combined ozone and drought. Science of the Total Environment, 655: 1364-1375.

- 11. Martina Franz, Rocio Alonso, Almut Arneth, Patrick Büker, Susana Elvira, Giac Feng, Didier Le Thiec, Riccardo Marzuoli, Elina Oksanen, Johan Uddling, Matthew Wilkir simulated ozone effects in forest ecosystems against biomass damage estimates from f 6941–6957.
- 12. Gina Mills, Katrina Sharps, Håkan Pleijel, David Simpson, Michael Frei, Kent B Broberg, Zhaozhong Feng, Kazuhiko Kobayashi, Madhoolika Agrawal, 2018. Closing the cobenefits for multi-stress tolerance. *Global Change Biology*, 24: 4869-4893.
- 13. Johan Uddling, Malin C. Broberg, Zhaozhong Feng, Håkan Pleijel (2018). Crop Current Opinion in Plant Biology, 45, 262-267.
- 14. Zhaozhong Feng*, Lijun Jiang, Vicent Calatayud, Lulu Dai, Elena Paoletti (2018). Sensitivity of wheat (*Triticum aestivum* L.) to ambient ozone in northern China as assessed by ethylenediure Research, 29: 29208-29218.
- 15. Gina Mills, Katrina Sharps, David Simpson, Håkan Pleijel, Malin Broberg, Joha Davies, Frank Dentener, Maurits Van den Berg, Madhoolika Agrawal, S.B. Agrawal, Eliza Emberson, Zhaozhong Feng, Harry Harmens, Felicity Hayes, Kazuhiko Kobayashi, Elena pollution will compromise efforts to increase global wheat production. *Global Change E*
- 16. Wen Xu, Bo Shang, Yansen Xu, Xiangyang Yuan, Anthony J. Dore, Yuanhong (2018). Effects of elevated ozone concentration and nitrogen addition on ammonia stor *Environmental Pollution*, 238, 760-770.
- 17. Zhaozhong Feng*, Johan Uddling, Haoye Tang, Jianguo Zhu, Kazuhiko Koba sensitivity to ozone between open-top chamber and free-air experiments. *Global Chang*
- 18. Weiwei Zhang, Miao Wang, Aiyang Wang, Xiaohan Yin, Zhaozhong Feng, Gu concentration decreases whole-plant hydraulic conductance and disturbs water use reg *Plantarum*, 163: 183-195.
- 19. Pin Li, Alessandra De Marco, Zhaozhong Feng*, Alessandro Anav, Daojing Zh level ozone measurements in China suggest serious risks to forest health. *Environmenta*
- 20. Bo Shang, Zhaozhong Feng*, Pin Li, Vicent Calatayud (2018). Elevated ozone and nutrient resorption of two poplar clones. *Environmental Pollution*, 234, 136-144.
- 21. Zhaozhong Feng*, Vicent Calatayud, Jianguo Zhu, Kazuhiko Kobayashi (2018) relationships with photosynthesis of winter wheat under fully open air condition. *Scienc* 1544.
- 22. Yansen Xu, Bo Shang, Xiangyang Yuan, Zhaozhong Feng*, Vicent Calatayud with exposure- and flux-based O₃ metrics in three urban tree species. *Science of the Tc*
- 23. Lijun Jiang, Zhaozhong Feng*, Lulu Dai, Bo Shang, Elena Paoletti (2018). Larg across 19 ethylenediurea-treated Chinese cultivars of soybean is driven by total ascorba 22
- 24. Zhaozhong Feng*, Patrick Büker, Hakan Pleijel, Lisa Emberson, Per Erik Karls explanation for variation in ozone sensitivity among woody plants. *Global Change Biolo*

- 25. Lu Zhang, Bin Xu, Tao Wu, Xun Wen, Lianxue Fan, Zhaozhong Feng, Elena Paoletti, and Pi-Choi under acute ozone exposure revealed regulatory mechanism against ozone stress. *Environmental Pollution*, 10.1186/s12870-017-1202-4
- 26. Pin Li, Zhaozhong Feng*, Vicent Calatayud, Xiangyang Yuan, Yansen Xu, Eler, physiological, and biochemical responses of woody species to ground-level ozone high Cell and Environment, 40, 2369-2380.
- 27. Xiangyang Yuan, Zhaozhong Feng*, Shuo Liu, Bo Shang, Pin Li, Yansen Xu, E based dose-responses of isoprene emission from poplar leaves and plants exposed to a and Environment, 40, 1960-1971.
- 28. Feng Gao, Vicent Calatayud, Elena Paoletti, Yasutomo Hoshika, Zhaozhong F negative effects of ozone on photosynthesis and biomass in poplar plants. *Environment*
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- 30. Xiangyang Yuan, Bo Shang, Yansen Xu, Yue Xin, Yuan Tian, Zhaozhong Feng effects between nitrogen stimulation and ozone inhibition of isoprene emission in Cath 601-602: 222-229.
- 31. Weiwei Zhang, Zhaozhong Feng, Xiaoke Wang, Xiaobing Liu, Enzhu Hu (201 stomatal uptake- yield response relationships for soybean in Northeast China. *Science c*
- 32. Xu Yue, Nadine Unger, Kandice Harper, Xiangao Xia, Hong Liao, Tong Zhu, Ji Ozone and haze pollution weakens net primary productivity in China. *Atmospheric Che*
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- 34. Ji Chen, Yiqi Luo, Jianwei Li, Xuhui Zhou, Junji Cao, Ruiwu Wang, Yunqiang V Walker, Zhaozhong Feng, Shuli Niu, Wenting Feng, Siyang Jian, Lingyan Zhou (2017). C soil respiration by nitrogen addition. *Global Change Biology*, 23: 1328-1337.
- 35. Fulu Tao*, Zhaozhong Feng, Haoye Tang, Yi Chen, Kazuhiko Kobayashi (2017 wheat productivity in Eastern China, singly and in combination. *Atmospheric Environme*
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- 38. Yue Xin, Xiangyang Yuan, Bo Shang, Manning WJ, Aizhen Yang, Younian Wa drought did not affect the effectiveness of ethylenediurea (EDU) in protecting Populus the Total Environment, 569-570: 1536-1544.

- 39. Feng Gao, Vicent Calatayud, Francisco García-Breijo, Jose Reig-Arminana, Zh ozone on physiological, anatomical and ultrastructural characteristics of four common u Indicators, 67: 367-379.
- 40. Pin Li, Vicent Calatayud, Feng Gao, Johan Uddling, Zhaozhong Feng* (2016). species are related to leaf morphology and antioxidant levels. *Tree Physiology*, 36: 1105.
- 41. Zhaozhong Feng, Xuejun Liu, Fusuo Zhang (2015). Air pollution affects food *Frontier Agricultural Sciences and Engineer*, 2(2): 152-158.
- 42. Jingsong Sun, Jindong Sun, Zhaozhong Feng* (2015). Modelling photosynthe aestivum) considering the variation in photosynthesis parameters during development.
- 43. Liang Wang, Jing Pang, Zhaozhong Feng*, Jianguo Zhu, Kazuhiko Kobayashi ascorbate in winter wheat leaves in relation to ozone detoxification. *Environmental Poll*
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- 46. Zhaozhong Feng*, Tobias Rütting, Hå kan Pleijel, Gö ran Wallin, Peter B. Reic Kazuhiko Kobayashi, Yunjian Luo, Johan Uddling* (2015). Constraints to nitrogen acquis *Global Change Biology*, 21: 3152-3168.
- 47. Xiangyang Yuan, Vicent Calatayud, Lijun Jiang, William J. Manning, Felicity I Assessing the effects of ambient ozone in China on snap bean genotypes by using ethy 205: 199-208.
- 48. Yonglong Lu, Alan Jenkins, Robert C. Ferrier, Mark Bailey, Lain J. Gordon, Shu Zhang, Xuejun Liu, Zhaozhong Feng, Zhibin Zhang (2015). Addressing China' s grand c ensuring environmental sustainability. *Science Advance*, 1: e1400039.
- 49. Zhaozhong Feng*, Elena Paoletti, Andrzej Bytnerowicz, Harry Harmons (2015 202: 215-216.
- 50. Zhaozhong Feng*, Enzhu Hu, Xiaoke Wang, Lijun Jiang, Xuejun Liu (2015). Gr food crops in China: A Review. *Environmental Pollution*, 199: 42-48.
- 51. Malin C. Broberg, Zhaozhong Feng, Yue Xin, Hakan Pleijel* (2015). Ozone eff *Environmental Pollution*, 197: 203-213.
- 52. Zhaozhong Feng, Jingsong Sun, Wuxing Wan, Enzhu Hu, Vicent Calatayud* (visible injury on plants in Beijing, China. *Environmental Pollution*, 193: 296-301.
- 53. Weiwei Zhang, Zhaozhong Feng*, Xiaoke Wang*, Jianfeng Niu (2014). Elevate current-year leaves but not previous-year leaves in evergreen *Cyclobalanopsis glauca* se
- 54. Weiwei Zhang, Guanghua Wang, Xiaobing Liu*, Zhaozhong Feng* (2014). Eff concentration and photosynthesis of nine soybean cultivars (*Glycine max* (L.) Merr.) in N

- 55. Weiwei Zhang, Zhaozhong Feng*, Xiaoke Wang, Jianfeng Niu (2014). Impact photosynthesis of *Metasequoia glyptostroboides* Hu et Cheng. *Plant Science*, 226: 182-191.
- 56. Jindong Sun*, Zhaozhong Feng, Donald R. Ort (2014). Impacts of rising tropic metabolite levels of field grown soybean. *Plant Science*, 226: 147-161.
- 57. Jindong Sun*, Zhaozhong Feng, Andrew D. B. Leakey, Xinguang Zhu, Carl J. I. Ojima (2014). Inconsistency of mesophyll conductance estimate causes the inconsistency for the estimates of maximum linear, rectangular and non-rectangular hyperbola biochemical models of leaf photosynthesis. *Plant Science*, 226: 49-60.
- 58. Yasutomo Hoshika, Giulia Carriero, Zhaozhong Feng, Yulong Zhang, Elena Paoletti (2014). Sluggishness in ozone-exposed deciduous tree species. *Science of The Total Environment*, 499: 100-108.
- 59. Jianfeng Niu, Zhaozhong Feng, Weiwei Zhang, Ping Zhao, Xiaoke Wang (2014). Effects of elevated O₃ on growth and photosynthesis in *Cinnamomum camphora* seedlings exposed to elevated O₃. *PLOS one*, 9(6): e98572.
- 60. Liang Wang, Zhaozhong Feng*, Jan. K. Schjoerring * (2013). Effects of elevated O₃ on growth and photosynthesis of wheat (*Triticum aestivum* L.): A meta-analytic test of current hypotheses. *Agriculture, Ecosystems and Environment*, 163: 10-18.
- 61. Xiaoke Wang, Qianqian Zhang, Feixiang Zheng, Qiwei Zheng, Fangfang Yao, Zhaozhong Feng, Wenzhi Song, Fei Lu (2012). Effects of elevated O₃ concentration on growth and photosynthesis of *Liriodendron chinense* (Hemsl.) Sarg. in the Yangtze River Delta, China. *Environmental Pollution*, 171: 118-125.
- 62. Zhaozhong Feng#, Haoye Tang#, Johan Uddling, Håkan Pleijel, Kazuhiko Kobayashi, Guo (2012). A stomatal ozone flux-response relationship to assess ozone-induced yield loss. *Environmental Pollution*, 164: 16-23.
- 63. Weiwei Zhang, Zhaozhong Feng*, Xiaoke Wang*, Junfeng Niu (2012). Responses of winter wheat to elevated ozone in subtropical China. *Environmental Pollution*, 163: 149-157.
- 64. Zhaozhong Feng*, Junfeng Niu, Weiwei Zhang, Xiaoke Wang*, Fangfang Yao (2012). Effects of elevated ozone concentration on growth and photosynthesis of sub-tropical evergreen *Cinnamomum camphora* seedlings grown in different nitrogen levels. *Environmental Pollution*, 163: 617-625.
- 65. Zhaozhong Feng, Jing Pang, Kazuhiko Kobayashi, Jianguo Zhu, Donald R. Ort (2012). Effects of winter wheat to elevated ozone concentration under fully open-air field conditions. *Global Change Biology*, 18: 2697-2706.
- 66. Xinkai Zhu, Zhaozhong Feng #, Taofang Sun, Xiaocheng Liu, Haoye Tang, Jianguo Zhu, Kazuhiko Kobayashi (2011). Effects of elevated ozone concentration on yield of four Chinese cultivated wheat varieties under different nitrogen conditions. *Global Change Biology* 17: 2697-2706.
- 67. Shuguang Wang, Zhaozhong Feng*, Xiaoke Wang, Wenliang Gong (2011). Effects of elevated ozone concentration on growth and nutrient uptake of snap bean (*Phaseolus vulgaris* L.) to O₃. *Journal of Environmental Quality*, 40: 100-108.
- 68. Junfeng Niu, Weiwei Zhang, Zhaozhong Feng*, Xiaoke Wang*, Yuan Tian (2011). Effects of elevated ozone concentration on growth and biomass of *Cinnamomum camphora* seedlings under different nitrogen levels. *Environmental Monitoring and Assessment*, 173: 2873-2879.
- 69. Weiwei Zhang, Jianfeng Niu, Xiaoke Wang*, Yuan Tian, Fangfang Yao, Zhaozhong Feng (2011). Effects of elevated ozone concentration on growth and photosynthesis of the seedlings of *Liriodendron chinense* (Hemsl.) Sarg. in the Yangtze River Delta, China. *Environmental Pollution*, 163: 149-157.

Photosynthetica 49: 29-36.

- 70. Zhaozhong Feng#, Pang Jing#, Isamu Nouchi, Kazuhiko Kobayashi*, Takashi ascorbate contributes to the differential ozone sensitivity in two varieties of winter whe Environmental Pollution 158: 3539-3545.
- 71. Zhaozhong Feng*, Shuguang Wang, Zoltan Szantoi, Shuai Chen, Xiaoke Wang ozone by applications of ethylenediurea (EDU): A meta-analytic review. Environmental F
- 72. Zhan Chen, Xiaoke Wang, Fangfang Yao, Feixiang Zheng, Zhaozhong Feng community in a rice paddy. Soil Science Society of America Journal, 74: 829-837.
- 73. Zhan Chen Xiaoke Wang, Zhaozhong Feng, Qin Xiao, Xiaonan Duan (2009). I community function under wheat crop. Water Air and Soil Pollution, 198: 189-198.
- 74. Hiroki Oue, Zhaozhong Feng, Jing Pang, Akira Miyata, Masayoshi Mano, Kaz Modeling the stomatal conductance and photosynthesis of a flag leaf of wheat under e Agricultural Meteorology, 65 (3): 239-248.
- 75. Zhaozhong Feng, Kazuhiko Kobayashi* (2009). Assessing the impacts of curre ozone on crop yield with meta-analysis. Atmospheric Environment, 43: 1510-1519.
- 76. Zhaozhong Feng*, Kazuhiko Kobayashi, Xiaoke Wang, Zongwei Feng (2009). formation to elevated ozone concentration. Chinese Science Bulletin, 54: 249-255.
- 77. Xiaoke Wang, Qiwei Zheng, Zhaozhong Feng, Juqing Xie, Zongwei Feng, Zhi Comparison of a diurnal vs steady state ozone exposure profile on growth and yield of chambers in the Yangtze Delta, China. Environmental Pollution, 156: 449-453.
- 78. Zhan Chen, Xiaoke Wang, Zhaozhong Feng, Feixiang Zheng, Xiaonan Duan, on growth and yield of field-grown rice in Yangtze River Delta, China. Journal of Environ
- 79. Zhaozhong Feng, Kazuhiko Kobayashi*, Elizabeth A. Ainsworth (2008). Impac physiology, and yield of wheat (*Triticum aestivum* L.): A meta-analysis. Global Change B
- 80. Zhaozhong Feng*, Huiqing Zeng, Xiaoke Wang, Qiwei Zheng, Zongwei Feng glyptostroboides to ozone stress. Photosynthetica, 46 (3): 463-465.
- 81. Xiaoke Wang, Qiwei Zheng, Fangfang Yao, Zhan Chen, Zhaozhong Feng, Wi of ambient ozone on growth and yield of a rice (*Oryza sativa* L.) and a wheat (*Triticum* : Delta, China, using three rates of application of ethylenediurea (EDU). Environmental Pc
- 82. Zhaozhong Feng*, Fangfang Yao, Zhan Chen, Xiaoke Wang*, Qiwei Zheng, Z exchange and yield components of field-grown *Triticum aestivum* L. to elevated ozone
- 83. Zhaozhong Feng, Xiaoke Wang*, Zongwei Feng (2005). Soil N and salinity lea impact on groundwater in Hetao Irrigation District, China. Agricultural Water Managem
- 84. Zhaozhong Feng*, Anhong Guo, Zongwei Feng (2003). Amelioration of chillir seedlings. Plant Growth Regulation, 39(3): 277-283.
- 85. Zhaozhong Feng*, Anhong Guo, Zongwei Feng (2003). Delay of senescence c triadimefon. *Biologia Plantarum*, 46(3):571-575.

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- 近期科研项目:
- 1.杨树人工林水分利用效率对开放式臭氧浓度升高的多尺度响应机制, 国家自然科学基金,
- 2.多目标温室气体测量技术, 国家重点研发计划, 课题: “典型生态系统温室气体通量监测
2020. 507万元、进行中、主持
- 3.城市生态要素对城市化的响应机制, 城市生态要素, 城市与区域生态国家重点实验室自
• 4.臭氧对中国和意大利陆地生态系统的影响, 中国科学院-意大利研究理事会 院级合作项
• 5.中国科学院前沿科学重点研究项目, 地表臭氧对人工林碳-氮耦合机制的影响、QYZDB-
中、主持。
- 6.科技部重点研究计划项目, 京津冀城市群生态安全保障技术研究SQ2016YFSF030062、
修复技术研发、2016-2020、125万元、进行中、主持。
- 7.突发大气污染事故植物损害评估技术方法研究, 环境保护部环境规划院, 2017.4-2019.
- 8.北京市自然科学基金面上项目, 地表臭氧浓度增加对北京桃果实生长发育的影响机制研
持。
- 9.臭氧对我国华北平原粮食作物产量损失与果实品质的影响. 中国科学院南京土壤研究所土
2016-2018、20万元、结题、主持。
- 10.中国科学院“百人计划”项目, 地表臭氧对城市森林服务功能的影响、2015/01-2018/
- 11.国家自然科学基金青年基金项目, 大气O₃浓度升高对我国亚热带城市绿化树种水杉和香樟
2010/12、19万元、结题、主持。

学院概况	师资队伍	本科教育	研究生教育	科学研究
学院简介	教师风采	专业设置	学科简介	研究机构
现任领导	导师风采	质量工程	导师名录	科研团队
机构设置	应用气象系	教学管理	研究生招生	科研项目
历任领导	农业资源与环... 生态系	实验教学	研究生培养	科研成果 学术动态 实验室管理制...

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