

最后一轮通知|第十届国际森林土壤学大会即将召开

随着社会经济的快速发展以及人们对生态平衡重视程度的日趋加深，生态环境问题越来越受到人们的重视。森林生态系统是陆地生态系统的主体，其所提供的强大生态服务功能，对于形成有利于人类生存与发展的生态环境至关重要。在全球变化问题日益加剧的背景下，森林土壤学研究已成为当前国际上土壤学、林业、生态学等学科的研究热点之一。世界各地科学家已开展了大量卓有成效的研究工作。为了深入探讨森林土壤学、林业和全球变化生态学等研究领域的热点科学问题，展示各领域最新研究成果，促进国际学术交流与合作，提升森林土壤学的科学研究水平，并讨论优化森林管理和应对全球变化的政策建议，国际土壤科学联合会和中国土壤学会定于 2024 年 10 月 15-19 日在中国杭州召开第十届国际森林土壤学大会。

参会并提交会议摘要的作者将有机会受邀在一区 SCITOP 期刊 *Biology and Fertility of Soils* (<https://link.springer.com/journal/374/updates/27691418>)、*Climate-Smart Forestry* 和 *Journal of Soil and Sediments* 为本次会议创建的专刊上提交论文并发表。

As the pace of socio-economic development accelerates and public consciousness about ecological balance deepens, environmental issues are increasingly capturing people's attention. The forest ecosystem, a mainstay of terrestrial ecosystems, provides critical ecological services essential for creating an environment conducive to human survival and development. Against the backdrop of escalating global environmental challenges, forest soil science has emerged as a focal point in international research in soil science, forestry, and ecology. Scientists around the world have conducted numerous effective studies in this field. To delve deeper into pressing scientific questions within forest soil science, forestry, and global change ecology, to showcase the latest research findings, to foster international academic exchanges and collaborations, to enhance the scientific level of forest soil research, and to discuss optimizing forest management and policy recommendations for addressing global changes, the International Union of Soil Sciences in conjunction with the Soil Science Society of China will convene the 10th International Symposium on Forest Soil Science in Hangzhou, China, from October 15 to 19, 2024.

Authors attending the conference and submitting abstracts for the conference will have the opportunity to be invited to submit papers for publication in the special issues created for this conference in *Biology and Fertility of Soils* (<https://link.springer.com/journal/374/updates/27691418>), *Climate-Smart Forestry* and the *Journal of Soil and Sediments*.

CONFERENCE TOPICS

The themes to be covered during the conference include but are not limited to:

- Assessing the impact of global change factors on carbon, water and nutrient cycling, and ecosystem functioning and services.
- Advancing innovative techniques and novel approaches to simulate and monitor the effects of forest ecosystem management and anthropogenic disturbances.
- Elucidating relationships between soil processes and ecosystem functioning and services.
- Understanding the role of soil microbes and fauna in forest soil processes and response to perturbations.
- Designing strategies for management and conservation: practices to maintain and enhance forest productivity and ecosystem services provided by forest soils in particular for water cycling and purification.
- Reclaiming degraded forestlands and managing the resilience of reclaimed land.
- Managing trees in the agricultural landscape: the role of agroforestry in mitigating environmental change.
- Other topics related to forest soils.

COMMITTEES

Scientific Committee

Name	Affiliation
Fu, Bojie (Honorary Chair)	Research Center for Eco-Environmental Science, Chinese Academy of Sciences (CAS), China
Xu, Zhihong (Chair)	Griffith University, Australia
Adams, Mary Beth	USDA Forest Service, USA
Anderson, Ian C.	University of Western Sydney, Australia
Binkley, Dan	Colorado State University, USA
Brown, Sally L.	University of Washington, USA
Cai, Zucong	Nanjing Normal University, China
Carnus, Jean-Michel	INRA, France
Chang, Scott X.	University of Alberta, Canada
Chen, Jinlin	Nanjing Forestry University, China
Choi, Woo-jung	Chonnam National University, South Korea
Clinton, Peter W.	Scion, New Zealand
Cui, Xiaoyang	Northeast Forestry University, China
DeLuca, Tomas H.	Oregon State University, USA
Driscoll, Charles T.	Syracuse University, USA
Fang, Shengzuo	Nanjing Forestry University, China
Feger, Karl-Heinz	Dresden University of Technology, Germany
Fernandez, Ivan J.	University of Maine, USA
Fox, Thomas R.	Rayonier Inc, USA
Fu, Shenglei	Henan University, China
Giardina, Christian P.	USDA Forest Services, USA
Hazlett, Paul W.	Canadian Forest Service, Canada
He, Jizheng	The University of Melbourne, Australia
He, Jinsheng	Peking University, China
He, Xinhua	Department of Primary Industries, NSW, Australia
Horn, Rainer	Christian-Albrechts University, Germany
Huang, Zhiquan	Fujian Normal University, China
Jiang, Peikun	Zhejiang A&F University (ZAFU), China
Jiao, Ruzhen	Research Institute of Forestry, Chinese Academy of Forestry, China

Johnson, Chris E.	Syracuse University, USA
Kazuhito, Morisada	Japan Forestry and Forest Products Research Institute, Japan
Kuzyakov, Yakov	University of Göttingen, Germany
Li, Chunyang	Zhejiang University, China
Li, Yan	ZAFU, China
Liu, Shenkui	ZAFU, China
Liu, Shirong	Chinese Academy of Forestry, China
Luo, Yiqi	Cornell University, USA
Ok, Yong Sik	Korea University, South Korea
Paré, David	Canadian Forest Service, Canada
Prescott, Cindy E.	University of British Columbia, Canada
Richter, Dan	Duke University, USA
Song, Xinzhang	ZAFU, China
Sun, Jianxin	Beijing Forestry University, China
Sun, Xiangyang	Beijing Forestry University, China
Ukonmaanaho, Liisa	Natural Resources Institute of Finland, Finland
Van Rees, Ken C. J.	University of Saskatchewan, Canada
Wang, Chuankuan	Northeast Forestry University, China
Wang, Hailong	Foshan University, China
Wang, Silong	Institute of Applied Ecology, CAS, China
Wang, Xihua	East China Normal University, China
Wang, Yixiang	ZAFU, China
Wu, Jiasheng	ZAFU, China
Xiang, Wenhua	Central South University of Forestry and Technology
Xu, Jianming	Zhejiang University, China
Xue, Jianming	Scion, New Zealand
Yang, Yusheng	Fujian Normal University, China
Yanai, Ruth D.	SUNY College of Environmental Science and Forestry, USA
Yu, Yuanchun	Nanjing Forestry University, China
Zeng, Dehui	Institute of Applied Ecology, CAS, China
Zhang, Jianguo	Research Institute of Forestry, Chinese Academy of Forestry, China
Zhang, Jinbo	Nanjing Normal University, China
Zhou, Guoyi	Nanjing University of Information Science and Technology, China
Zhou, Xiaoqi	East China Normal University, China
Zhou, Xuhui	Northeast Forestry University, China

Organizing Committee

Name	Affiliation
Zhou, Guomo (Honorary Chair)	Zhejiang A&F University (ZAFU), China
Chang, Scott X. (Chair)	University of Alberta, Canada
Cai, Yanjiang (Co-Chair)	ZAFU
Li, Yongfu (Co-Chair)	ZAFU
Xu, Qiufang (Co-Chair)	ZAFU
Chen, Youchao	ZAFU
Jiang, Zhenhui	ZAFU
Li, Yongchun	ZAFU
Wang, Yan	ZAFU
Xiao, Mouliang	ZAFU
Tang, Ronggui	ZAFU
Zhang, Baogang	ZAFU
Zhang, Qianqian	ZAFU

Publication Committee

Name	Affiliation
Xu, Zhihong (Chair)	Griffith University, Australia
Cai, Yanjiang	Zhejiang A&F University (ZAFU), China
Chang, Scott X.	University of Alberta, Canada
Clinton, Peter W.	Scion, New Zealand
Huang, Zhiqun	Fujian Normal University, China
Johnson, Chris E.	Syracuse University, USA
Li, Yongfu	ZAFU
Ma, Zilong	Sun Yat-sen University, China
Paolo Nannipieri	University of Firenze, Italy
Tang, Ronggui	ZAFU
Wang, Hailong	Foshan University, China
Wang, Yan	ZAFU
Xue, Jianmin	Scion, New Zealand

CONFERENCE ORGANIZATION

Sponsors

- International Union of Soil Science (IUSS)
- Soil Science Society of China (SSSC)

Organizers

- State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University
- College of Environment and Resources and College of Carbon Neutrality, Zhejiang A&F University
- Key Laboratory of Soil Remediation and Quality Improvement in Zhejiang Province

Co-Organizers

- Griffith University (Australia)
- University of Alberta (Canada)
- Anji Natural Resources & Planning Bureau (Anji Forestry Bureau)
- Nanjing Mancheng Event Co., Ltd

Keynote speakers



Binkley, Dan. Professor Emeritus
Colorado State University (USA)



Fu, Bojie. Academician
Research Center for Eco-
Environmental Sciences, CAS



Liu, Shirong. Academician
Chinese Academy of Forestry



Zhu, Yongguan. Academician
Research Center for Eco-
Environmental Sciences, CAS

Invited speakers



Adams, Mary Beth.
Research Soil Scientist,
Emerit, US Department
of Agriculture (USA)



Bai, Edith.
Professor,
Northeast Normal
University



Cai, Zucong.
Professor,
Nanjing Normal
University



Choi, Woo-Jung.
Professor,
Chonnam National
University (Korea)



Clinton, Peter W.
Principal Researcher,
Scion
(New Zealand)



DeLuca, Thomas.
Professor,
Oregon State
University (USA)



Fang, Huajun.
Professor,
Inst. of Geographic
Sciences and Natural
Resources Research, CAS



Feger, Karl-Heinz.
Professor,
Dresden University of
Technology (Germany)



Fu, Shenglei.
Professor,
Henan University



Giardina,
Christian Paul.
Research
Ecologist,
USDA (USA)



Kang, Hojeong.
Professor,
Yonsei University (South
Korea)



Huang, Zhiqun.
Professor,
Fujian Normal University



He, Jizheng (Jim).
Professor,
The University of
Melbourne (Australia)



Jia, Zhongjun.
Professor,
Northeast Inst. of
Geography and
Agroecology,
CAS



Jiang, Mingkai.
Professor,
Zhejiang University



Johnson, Chris E.
Professor,
Syracuse University
(USA)



Li, Chunyang.
Professor, Zhejiang
University



Luo, Yiqi.
Professor,
Cornell
University (USA)



Ma, Bin.
Professor,
Zhejiang University



Ni, Xiangyin.
Professor,
Fujian Normal University



Prescott, Cindy E.
Professor Emerita,
University of British
Columbia (Canada)



Richter, Daniel.
Professor,
Duke University
(USA)



Wang, Junjian.
Professor,
Southern University of
Science and Technology



Wang, Silong.
Professor, Inst. of
Applied Ecology, CAS



Xu, Jianming.
Professor,
Zhejiang University



Xu, Zhihong.
Professor,
Griffith
University
(Australia)



Yang, Yuanhe.
Professor,
Inst. of Botany, CAS



Yanai, Ruth.
Professor,
SUNY College of
Environmental Science
and Forestry (USA)



Yu, Mingjian.
Professor,
Zhejiang University



Zhang, Xudong.
Professor,
Inst. of Applied
Ecology, CAS

(In alphabetical order by surname)



CONFERENCE PROGRAM AT A GLANCE

Content 会议内容	Date 日期	Time 时间	Location 地点
Registration 参会人员报到、注册	Oct. 15 th	08:00-22:00	Hotel lobby 酒店大厅
Graduate Student Parallel Session 1 研究生分会场一	Oct. 15 th	18:30-22:00	Fish Wharf 渔人码头
Graduate Student Parallel Session 2 研究生分会场二	Oct. 15 th	18:30-22:00	Long Quan 龙泉山厅
Opening Ceremony and Keynote Presentations I 开幕式、大会报告一	Oct. 16 th	08:30-12:10	Song Dynasty 宋城厅
Parallel Session 1 分会场一报告	Oct. 16 th	14:00-17:20	Creative City 创意城厅
	Oct. 17 th	08:30-12:20	
Parallel Session 2 分会场二报告	Oct. 16 th	14:00-17:30	Zurich 苏黎士厅
	Oct. 17 th	08:30-12:20	
Parallel Session 3 分会场三报告	Oct. 16 th	14:00-17:30	Long Quan 龙泉山厅
	Oct. 17 th	08:30-12:20	
Parallel Session 4 分会场四报告	Oct. 16 th	14:00-17:30	Fish Wharf 渔人码头
	Oct. 17 th	08:30-12:20	
Keynote Presentations II and Closing Ceremony 大会报告二、闭幕式	Oct. 17 th	14:00-17:50	Song Dynasty 宋城厅
Field trip to Anji (Option A) 野外考察（安吉）	Oct. 18 th	08:30-18:00	ZAFU & Anji 浙江农林大学和安吉 基地
Field trip to Xixi National Wetland Park (Option B) 野外考察（西溪湿地）	Oct. 19 th	08:30-18:00	Xixi National Wetland Park 西溪国家湿地公园

CONFERENCE REGISTRATION

会议注册: <https://isfs2024.casconf.cn/register>。注册费用包括全套会议材料(陪同人员不发放会议资料)、茶歇、会议期间午餐和晚餐。住宿及交通费用自理。

缴费与发票: 现场注册缴费者提前联系会务组成员,可适当优惠。本次会议由南京满程会议服务有限公司负责会务并开具注册费发票。在会议网站上在线填写注册信息后即可将注册费汇款至以下账户(可通过单位财务、银行、网银、手机银行、支付宝、微信等汇款支付方式)。参会者也可以通过扫码支付。

汇款转账

汇款账户(转账请附言: ISFS+参会人员姓名)

开户名: 南京满程会议服务有限公司

开户行: 中国工商银行南京市雨花支行

账号: 4301013709100920971

扫码支付



会议联系

唐荣贵 rgtang@zafu.edu.cn, 手机: +86-15251846271

王燕 wangyan@zafu.edu.cn, 手机: +86-16657153532

陈有超 chenyouchao@zafu.edu.cn, 手机: +86-18671450155

酒店预订

杭州第一世界大酒店(浙江省杭州萧山区风情大道 2555 号宋城湘湖片区内)

联系人: 赵雷 13584091939

扫码预定



KEYNOTE PRESENTATIONS I

Oct. 16th morning, Song Dynasty Hall / 10 月 16 日上午, 宋城厅

Opening Ceremony		
Chair: Chang, Scott X.		
8:30-8:50	Distinguished Speakers	<i>The Leadership</i> of Zhejiang A&F University
		<i>Xu, Zhihong</i> Scientific Committee Chair, Griffith University, Australia
		<i>Feng, Huajun</i> Dean of College of Environment and Resources, College of Carbon Neutrality, Zhejiang A&F University
8:50-9:00	Group Photo	
Keynote Presentations		
Session Chair: Chang, Scott X.		
9:00-9:40	<i>Liu, Shirong</i> Chinese Academy of Forestry	Responses and adaptation of warm temperate forest ecosystems to prolonged drought
9:40-10:20	<i>Binkley, Dan</i> Colorado State University, USA	How we make sense of forest soils: the poor, the weak, and the wrong (online)
10:20-10:40	Coffee Break	
Invited Presentations		
Session Chair: Cai, Zucong		
10:40-11:10	<i>Luo, Yiqi</i> Cornell University, USA	The role of microbial carbon use efficiency in global soil carbon storage
11:10-11:40	<i>Xu, Zhihong</i> Griffith University, Australia	Climate change, wildfires and prescribed burning in native and plantation forests of subtropical Australia: challenges and opportunities
11:40-12:10	<i>Fu, Shenglei</i> Henan University	Responses of forest ecosystems to atmospheric nitrogen deposition

KEYNOTE PRESENTATIONS II

Oct. 17th afternoon, Song Dynasty Hall / 10 月 17 日下午, 宋城厅

Keynote Presentations	
Session Chair: Xu, Zhihong	
14:00-14:40	Fu, Bojie <i>Research Center for Eco-Environmental Sciences, CAS</i> China's ecosystem restoration and carbon neutrality
14:40-15:20	Zhu, Yongguan <i>Research Center for Eco-Environmental Sciences, CAS</i> Planetary homeostasis of reactive nitrogen
15:20-15:40	Coffee Break
Invited Presentations	
Session Chair: DeLuca, Tomas H.	
15:40-16:10	Adams, Mary Beth <i>United States Department of Agriculture, USA</i> The forestry reclamation approach: restoring forest soils and ecological services on drastically disturbed landscapes
16:10-16:40	Cai, Zucong <i>Nanjing Normal University</i> Possible response of biological nitrogen fixation in terrestrial ecosystems to global change
16:40-17:10	Xu, Jianming <i>Zhejiang University</i> The microbial regulation of soil element balance following wildfire in boreal forests
Closing Ceremony	
Chair: Xu, Zhihong	
17:10-17:30	Awards Ceremony
17:30-17:50	Closing Ceremony

PARALLEL SESSIONS (Oct. 16th)

Parallel Session 1	
Impact of global change factors on forest soil biogeochemical processes	
Location: Creative City Hall (创意城厅)	
Time	Session Chairs: Fang, Huajun / Chen, Xinli
14:00-14:30	<p><i>Giardina, Christian Paul</i> United States Department of Agriculture (USDA), USA</p> <p>Invited Presentation: Response of belowground processes and soil carbon to rising temperatures - Lessons from a highly constrained MAT gradient in Hawai'i (online)</p>
14:30-15:00	<p><i>Yang, Yuanhe</i> Institute of Botany, CAS</p> <p>Invited Presentation: Enhanced response of soil respiration to experimental warming upon thermokarst formation</p>
15:00-15:20	<p><i>Zhou, Zhenghu</i> Northeast Forestry University</p> <p>Soil microbial carbon use efficiency and climate change</p>
15:20-15:40	<p><i>Zhou, Xiaoqi</i> East China Normal University</p> <p>Impact of drought on soil methane sinks in subtropical forests</p>
15:40-16:00	Coffee Break & Poster
Time	Session Chair: Yang, Yuanhe
16:00-16:30	<p><i>Fang, Huajun</i> Institute of Geographic Sciences and Natural Resources Research, CAS</p> <p>Invited Presentation: Contrasting response of N₂O emissions from a temperate forest soil to N forms and levels and its driving mechanisms</p>
16:30-17:00	<p><i>Chen, Xinli</i> Zhejiang A&F University</p> <p>Invited Presentation: Tree diversity effects on soil carbon accumulation</p>
17:00-17:20	<p><i>Wang, Yi</i> International Centre for Bamboo and Rattan</p> <p>Root exclusion changed the response of soil enzyme activity to the nitrogen and phosphorus addition in <i>Phyllostachys edulis</i> forest</p>

Parallel Session 2

Functions of soil biota in forest soil processes

Location: Zurich Hall (苏黎士厅)

Time	Session Chairs: Hu, Zhenhong/ Cai, Yanjiang
14:00-14:30	Kang, Hojeong <i>Yonsei University, Korea</i> Invited Presentation: Effects of forest thinning on soil organic matter and CH ₄ oxidation
14:30-15:00	Huang, Zhiqun <i>Fujian Normal University</i> Invited Presentation: Tree species richness increases net sink of soil CH ₄ and N ₂ O in a subtropical forest
15:00-15:20	Pu, Gaozhong <i>Guangxi Institute of Botany, Chinese Academy of Sciences</i> Characteristics and driving factors of archaea community in typical karst Tiankeng soil
15:20-15:40	Dai, Zhongmin <i>Zhejiang University</i> Croplands favored microorganisms with more r- strategies than pristine soils
15:40-16:00	Coffee Break & Poster
Time	Session Chairs: Kang, Hojeong/Huang, Zhiqun
16:00-16:30	Prescott, Cindy E. <i>University of British Columbia, Canada</i> Invited Presentation: Regenerative forestry – managing forests for soil life (online)
16:30-16:50	Luan, Junwei <i>International Centre for Bamboo and Rattan</i> Biodiversity mitigates drought and disturbance stresses in the decomposer system
16:50-17:10	Zhou, Shixing <i>Sichuan Agricultural University</i> Litter mixture effects on decomposition and nitrogen dynamics across biomes: The role of litter identity, diversity and soil fauna
17:10-17:30	Hu, Zhenhong <i>Northwest A&F University</i> Fungal composition associated with host tree identity mediates nutrient addition effects on wood microbial respiration

Parallel Session 3

Relationships between soil properties and ecosystem functioning

Location: Long Quan Hall (龙泉山厅)

Time	Session Chairs: Jia, Zhongjun/ Li, Yongfu
14:00-14:30	<i>Johnson, Chris E. Syracuse University, USA</i> Invited Presentation: An inadvertent “enhanced rock weathering” experiment: long-term effects of calcium silicate addition to a hardwood forest soil
14:30-15:00	<i>Li, Chunyang Zhejiang University</i> Invited Presentation: Effect of sex on the soil of poplar plantation
15:00-15:20	<i>Yang, Yujing Hubei University</i> Carbon-microbial mediation of SOC component synergy in warm-temperate but not subtropical forests after 11-year soil warming
15:20-15:40	<i>Liu, Min Institute of Geographic Sciences and Natural Resources Research</i> Uptake of organic and inorganic nitrogen by trees in different temperate zones and the effects of mycorrhiza, tree age and tree species richness
15:40-16:00	Coffee Break & Poster
Time	Session Chairs: Johnson, Chris E. / Li, Chunyang
16:00-16:30	<i>Jia, Zhongjun Northeast Institute of Geography and Agroecology, CAS</i> Invited Presentation: Formation and evolution mechanism of typical functional microbial communities in forest soils
16:30-16:50	<i>Lu, Zhanyuan Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences</i> Technology innovation and application of cultivated land protection and utilization in agro-pastoral ecotone
16:50-17:10	<i>Zhang, Yuting Zhejiang A&F University</i> Soil multifunctionality and nutrient cycling-related genes in <i>Cunninghamia lanceolata</i> plantations
17:10-17:30	<i>Min, Kaikai Institute of Applied Ecology, CAS</i> Enzyme stoichiometries and microbial traits are more tightly coupled in cropland than forest ecosystems
Parallel Session 4	
Forest soil microbial dynamics and global change biology	
Location: Fish Wharf Hall (渔人码头)	
Time	Session Chairs: Zhang, Xudong/ Li, Yongchun

14:00-14:30	<i>Clinton, Peter</i> Scion, New Zealand Invited Presentation: Pressures and requirements for forest soils
14:30-15:00	<i>Ma, Bin</i> Zhejiang University Invited Presentation: Biogeographic patterns and drivers of global soil viromes
15:00-15:20	<i>Xia, Shangwen</i> Xishuangbanna Tropical Botanical Garden, CAS Plant apparency but not home-field advantage explains site effect of litter decomposition in tropical rainforest
15:20-15:40	<i>Liao, Xiaolin</i> Nanjing Forestry University Effects of biochar on soil carbon sequestration and greenhouse gas emissions in a subtropical poplar plantation
15:40-16:00	Coffee Break & Poster
Time	Session Chairs: Clinton, Peter W. / Ma, Bin
16:00-16:30	<i>Zhang, Xudong</i> Institute of Applied Ecology, CAS Invited Presentation: Resilience of soil micro-organisms and its significance
16:30-16:50	<i>Wang, Yanhui</i> Ecology and Nature Conservation Institute, Chinese Academy of Forestry Spatio-temporal variation of soil organic and inorganic carbon pools of dryland forests in northwest China
16:50-17:10	<i>Shi, Xiuzhen</i> Fujian Normal University Tree species richness promoted ecosystem multifunctionality and mitigated negative effects of nitrogen deposition
17:10-17:30	<i>Wang, Hui</i> Ecology and Nature Conservation Institute, Chinese Academy of Forestry Evenness of soil organic carbon chemical components changes with tree species richness, composition and functional diversity across forests in China



PARALLEL SESSIONS (Oct. 17th)

Parallel Session 1	
Impacts of global change factors on forest soil biogeochemical processes	
Location: Creative City Hall (创意城厅)	
Time	Session Chair: Wang, Junjian
8:30-9:00	<p>Choi, Woo-Jung <i>Chonnam National University, South Korea</i></p> <p>Invited Presentation: Using $\delta^{15}\text{N}$ of tree foliage and rings for understanding the changes in atmospheric N deposition</p>
9:00-9:30	<p>DeLuca, Thomas H. <i>Oregon State University, USA</i></p> <p>Invited Presentation: Nitrogen fixation in non-nodulating species in boreal and temperate ecosystems</p>
9:30-9:50	<p>Zhou, Hui <i>Department of Water Resources for Pastoral Areas</i></p> <p>Effect of salt and organic-inorganic proportion on soil nitrogen mineralization</p>
9:50-10:10	<p>Qi, Le <i>Inner Mongolia University</i></p> <p>Effect of grazing on greenhouse gas emission in a typical steppe</p>
10:10-10:30	<p>Xing, Aijun <i>Institute of Botany, CAS</i></p> <p>Reversal of the litter N effect on decomposition at higher N addition rates</p>
10:30-10:50	Coffee Break & Poster
Time	Session Chair: Choi, Woo-Jung
10:50-11:20	<p>Wang, Junjian <i>Southern University of Science and Technology</i></p> <p>Invited Presentation: Impacts of forest fires on soil organic matter and environmental quality</p>
11:20-11:40	<p>Wang, Zhikang <i>Zhejiang A&F University</i></p> <p>Elevated CO_2 enhances plant drought resistance by conditioning rhizosphere microbiome</p>
11:40-12:00	<p>Li, Changjia <i>Beijing Normal University</i></p> <p>The ecological impacts of large-scale ecological conservation and restoration projects in China's drylands</p>
12:00-12:20	<p>Li, Yuhong <i>Central South University of Forestry & Technology</i></p>

	Microbial response to irrigation after different levels of drought stress in the rhizosphere of <i>Camellia oleifera</i>
Parallel Session 2 Functions of soil biota in forest soil processes Location: Zurich Hall (苏黎士厅)	
Time	Session Chair: Yu, Mingjian
8:30-9:00	He, Jizheng <i>The University of Melbourne, Australia</i> Invited Presentation: How will tree mycorrhizal type impact tree microbiome and soil carbon sink in a subtropical forest
9:00-9:30	Ni, Xiangyin <i>Fujian Normal University</i> Invited Presentation: Litter substrate controls microbial-derived soil organic matter formation via microbial catabolism and anabolism
9:30-9:50	Liu, Zhanfeng <i>South China Botanical Garden, CAS</i> Soil biota and ecosystem restoration
9:50-10:10	Zhang, Xiao <i>Northwest A&F University</i> The maintenance mechanisms of forest soil microbial diversity
10:10-10:30	Tian, Qiuxiang <i>Wuhan Botanical Garden, CAS</i> Topography modifies the effect of mycorrhizal type on soil carbon and nitrogen accumulation in a subtropical mountainous forest
10:30-10:50	Coffee Break & Poster
Time	Session Chair: He, Jizheng
10:50-11:20	Yu, Mingjian <i>Zhejiang University</i> Invited Presentation: Multidimensional plant diversity and soil system processes in fragmented forests
11:20-11:40	Shi, Man <i>Zhejiang A&F University</i> Microbial mechanisms underlying active organic carbon pool increases via rhizodeposition by Moso bamboo under in situ crown ¹³ CO ₂ enrichment
11:40-12:00	Li, Yuzhu <i>Institute of Applied Ecology, CAS</i> Toward soil carbon storage: the influence of parent material and vegetation on profile-scale microbial community structure and necromass accumulation
12:00-12:20	Yu, Wenjuan <i>Zhejiang A&F University</i>

	Bacteria are more closely related to soil lignin decomposition than fungi at continental scale
Parallel Session 3 Relationships between soil properties and ecosystem functioning Location: Long Quan Hall (龙泉山厅)	
Time	Session Chair: Wang, Silong
8:30-9:00	Richter, Daniel D. <i>Duke University, USA</i> Invited Presentation: Understanding soil change: over time scales of the multimillennia, centuries, and decades (online)
9:00-9:30	Feger, Karl-Heinz <i>Dresden University of Technology, Germany</i> Invited Presentation: The importance of forest soils for water yield and quality
9:30-9:50	Shen, Jianlin <i>Institute of Subtropical Agriculture, CAS</i> Long-term atmospheric nitrogen deposition in subtropical forest in China: implication on non-point source nitrogen pollution
9:50-10:10	Li, Quan <i>Zhejiang A&F University</i> Impact of nitrogen deposition on the source and fractions of soil organic carbon in Moso bamboo forests and its legacy effects
10:10-10:30	Wang, Haiyan <i>Beijing Forestry University</i> Spatial variability and driving factors of forest soil multifunctionality in Wangyedian Nature Reserve
10:30-10:50	Coffee Break & Poster
Time	Session Chair: Feger, Karl-Heinz
10:50-11:20	Wang, Silong <i>Institute of Applied Ecology, CAS</i> Invited Presentation: Belowground carbon allocation determines the stability of soil organic carbon in Chinese fir plantation
11:20-11:40	Li, Suyan <i>Beijing Forestry University</i> The impact and determinants of mountainous topographical factors on soil microbial community characteristics
11:40-12:00	Zhang, Zhenming <i>Guizhou University</i> Estimation of soil organic carbon storage and its driving factors in karst forests in southwest China

12:00-12:20	Jing, Hang <i>Nanjing Normal University</i> Hierarchical responses of rhizosphere soil and root with different diameters to nitrogen deposition
Parallel Session 4 Forest soil microbial dynamics and global change biology Location: Fish Wharf Hall (渔人码头)	
Time	Session Chair: Yanai, Ruth
8:30-9:00	Bai, Edith <i>Northeast Normal University</i> Invited Presentation: The important role of soil microbes in carbon and nitrogen cycling
9:00-9:30	Jiang, Mingkai <i>Zhejiang University</i> Invited Presentation: Confronting models with data: carbon-phosphorus interactions under elevated CO ₂ in a mature forest
9:30-9:50	Smaill, Simeon <i>Scion, New Zealand</i> The accelerator trial series: faster and better trees, but what about the soil?
9:50-10:10	Yin, Huajun <i>Chengdu Institute of Biology, CAS</i> Soil free-living nitrogen fixation in forests: the role of carbon availability
10:10-10:30	Wu, Pengfei <i>Southwest Minzu University</i> Soil microarthropod abundances determined by soils but diversity affected by soils, climate and vegetation on regional scale
10:30-10:50	Coffee Break & Poster
Time	Session Chair: Bai, Edith
10:50-11:20	Yanai, Ruth D. <i>SUNY College of Environmental Science and Forestry</i> Invited Presentation: Nitrogen and phosphorus limitation in northern hardwood forest ecosystems
11:20-11:40	Geng, Yuqing <i>Beijing Forestry University</i> Shift in soil microbial community and enzyme activity under <i>Picea crassifolia</i> plantation and its natural forest

11:40-12:00	Zhou, Xue <i>Jilin Agricultural University</i> The long-term impact of reforestation on carbon sequestration pathways in black soils of northeast China
12:00-12:20	Zhou, Lingyan <i>East China Normal University</i> Effect of nitrogen and phosphorus addition on the multifunctionality in a subtropical forest