

### **Current professional status**

South China Normal University, 2017.08-until now, Associate professor

### **Professional skills**

To proficiency in soil nematode identification and analysis

### **Research interests:**

Global environmental change is a major threat to ecosystems function and biodiversity. Now i mainly study the potential mechanisms of rainfall changes and warming on soil microbial and nematode communities, and nutrient cycle.

### **Published paper:**

**Feng Sun**, Linan Fan, Guangyan Deng, Yakov Kuzyakov, Yue Zhang, Jinchuang Wang, Yingwen Li, Faming Wang, Zhian Li, Akash Tariq, **Jordi Sardans**, **Josep Penuelas**, Mei Wang, Changlian Peng. Responses of tropical forest soil organic matter pools to shifts in precipitation patterns. *Soil Biology and Biochemistry* 2024, 197, 109530.

**Feng Sun**, Guanzhao Yan, Wei Lin, Wei He, Xianli Cheng, Yingwen Li, Akash Tariq, **Jordi Sardans**, **Josep Penuelas**, Jinchuang Wang, Mei Wang, Yuelin Li, Changlian Peng. Warming enhanced the interaction effects of fungi and fungivores and soil potassium mineralization in tropical forest. *Catena* 2024, 243, 108229.

**Feng Sun**, Wei Lin, Guangyan Deng, Linan Fan, Hanxia Yu, Zhengchao Yu & Changlian Peng. Low temperature-mediated changes in soil free-living nitrogen fixation functional groups in tree species at different successional stages in subtropical forests. 2024, DOI 10.1007/s11104-024-06724-5.

**Feng Sun**, Ruiying Chang, Akash Tariq, **Jordi Sardans**, **Josep Penuelas**, Hui Jiang, Xingmei Zhou, Na Li. Livestock grazing-exclusion under global warming scenario decreases phosphorus mineralization by changing soil food web structure in a Tibetan alpine meadow. *Science of the Total Environment* 2023, 873, 162313.

Na Li, Ruiying Chang, Hui Jiang, Akash Tariq, **Jordi Sardans**, **Josep Penuelas**, **Feng Sun\***, Xingmei Zhou\*. Combined livestock grazing-exclusion and global warming decreases nitrogen mineralization by changing soil microbial community in a Tibetan alpine meadow. *Catena* 2022, 106589.

**Feng Sun**, S & kou F. M. Coulibaly, Nathalie Cheviron, Christian Mougin, Micka & Hedde, Pierre-Alain Maron, Sylvie Recous, Jean Trap, C & cile Villenave, Matthieu Chauvat. The multi-year effect of different agroecological practices on soil nematodes and soil respiration. *Plant and Soil* 2023, 490, 109–124.

**Feng Sun**, Lingda Zeng, Minling Cai, Matthieu Chauvat, Estelle Forey, Akash Tariq, Corina Graciano, Zhihao Zhang, Yanfang Gu, Fanjiang Zeng, Yu Gong, Faming Wang, Mei Wang. An invasive and native plant differ in their effects on the soil food-web and plant-soil phosphorus cycle. *Geoderma* 2022, 410, 115672.

Xun Gong#, **Feng Sun**#, Wang FM et al. The mechanisms and potentially positive effects of seven years of delayed and wetter wet seasons on nitrous oxide fluxes in a tropical monsoon forest. *Geoderma* 2022, 412, 115740.

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**Feng Sun**, Chengjun Song, Mei Wang et al. Long-term increase in rainfall decreases organic phosphorus decomposition in tropical forests. *Soil Biology and Biochemistry* 2020, 108056.

**Feng Sun**, Qiaojing Ou, Hanxia Yu, et al. The invasive plant *Mikania micrantha* affects the soil foodweb and plant-soil nutrient contents in orchards. *Soil Biology and Biochemistry* 2019, 107630.

**Feng Sun**, Yuyi Ou, Qiaojing Ou et al. The invasive potential of a hybrid species: insights from soil chemical properties and soil microbial communities. *Journal of Plant Ecology* 2019, 13, 20–26.

**Feng Sun**, Kaiwen Pan, OA Olatunji et al. Specific legumes allay drought effects on soil microbial food web activities of the focal species in agroecosystem. *Plant and Soil* 2019, 437, 455-471.

**Feng Sun**, Kaiwen Pan, Zilong Li et al. Soybean supplementation increases the resilience of microbial and nematode communities in soil to extreme rainfall in an agroforestry system. *Science of the Total Environment* 2018, 626, 776-784.

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**Feng Sun**, Akash Tariq, Huai Chen et al. Effect of nitrogen and phosphorus application on agricultural soil food webs. *Archives of Agronomy and Soil Science* 2017, 63, 1176-1186.

Dagang Song, Kaiwen Pan, Akash Tariq, **Feng Sun**, Zilong Li et al. Large-scale patterns of distribution and diversity of terrestrial nematodes. *Applied Soil Ecology* 2017, 114, 161-169.

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