

## 姜一凡

讲师

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研究方向：菊花次生代谢物质的调控与生物合成

### 教育经历：

2001/09-2005/06，山东农业大学，园林专业，学士；

2005/09-2008/06，江西农业大学，园林植物与观赏园艺专业，硕士；

2008/09-2012/06，西北农林科技大学，园林植物与观赏园艺专业，博士



### 工作经历：

2009/09-2011/10，美国田纳西大学，联合培养博士

2012/09-2017/12，常州大学，艺术学院园林系，讲师

2014/09-2017/09，爱沙尼亚生命科学大学，博士后

2018/01-至今，南京农业大学，园艺学院，讲师

### 主持或参加科研项目：

(1) 国家自然科学基金面上项目，C020409，江南卷柏miRNA和circRNA的识别及其在萜类合成中的调控网络解析，2018/01-2021/01，80万，在研，参加

### 发表论文：

(1) **Yifan Jiang**, Linda-Liisa Veromann-Jürgenson, Jiayan Ye, Ülo Niinemets\*. Oak gall wasp infections of *Quercus robur* leaves lead to profound modifications in foliage photosynthetic and volatile emission characteristics. *Plant Cell & Environment*. 2017, 41(1):160-175.

(2) Shuai Li, Tiina Tosens, Peter C. Harley, **Yifan Jiang**, Arooran Kanagendran, Mirjam Grosberg, Kristen Jaamets, Ülo Niinemets. Glandular trichomes as a barrier against atmospheric oxidative stress: relationships with ozone uptake, leaf damage and emission of lox products across a diverse set of species. *Plant Cell & Environment*. 2018. (In press)

- (3) **Yifan Jiang**, Jiayan Ye, Shuai Li, Ülo Niinemets\*. Methyl jasmonate-induced emission of biogenic volatiles is biphasic in cucumber (*Cucumis sativus*): a high-resolution analysis of dose dependence. *Journal of Experimental Botany*. 2017, 68(16):4679-4694.
- (4) **Yifan Jiang**, Jiayan Ye, Linda-Liisa Veromann-Jürgenson, Ülo Niinemets\*. Scaling of photosynthesis and constitutive and induced volatile emissions with severity of leaf infection by rust fungus (*Melampsora larici-populina*) in *Populus balsamifera* var. *suaveolens*. *Tree Physiology*. 2016, 36 (7): 856–872.
- (5) **Yifan Jiang**, Jiayan Ye, Shuai Li, Ülo Niinemets\*. Regulation of floral terpenoid emission and biosynthesis in sweet basil (*Ocimum basilicum*). *Journal of Plant Growth Regulation*. 2016, 35: 921–935.
- (6) **Yifan Jiang**, Hao Chen, Xinlu Chen; Tobias G. Kollner, Qidong Jia, Troy W. Wymore, Fei Wang, Feng Chen\*. Volatile squalene from a nonseed plant *Selaginella moellendorffii*: Emission and biosynthesis. *Plant Physiology and Biochemistry*. 2015, 96:1–8.
- (7) Sandra Irmisch, **Yifan Jiang**, Feng Chen, Jonathan Gershenzon, Tobias G. Kollner\*. Terpene synthases and their contribution to herbivore-induced volatile emission in western balsam poplar (*Populus trichocarpa*). *BMC Plant Biology*, 2014, 14(1):1–16.
- (8) **Yifan Jiang**, Jiayan Ye and Bao Jiang. Characterization of Volatile Constituents from the Flowers and Leaves of *Ailanthus altissima* by Dynamic Head-Space Collection/GC-MS. *Asian Journal of Chemistry*. 2014, 26 (20), 6737-6739
- (9) Guanglin Li, Tobias G. Kollner, Yanbin Yin, **Yifan Jiang**, Hao Chen, Ying Xu, Jonathan Gershenzon, Eran Pichersky, Feng Chen\*. Nonseed plant *Selaginella moellendorffii* has both seed plant and microbial types of terpene synthases. *PNAS*, 2012, 109 (36):14711–14715.
- (10) Xiaofeng Zhuang, Tobias G. Kollner, Nan Zhao, Guanglin Li, **Yifan Jiang**, Liucun Zhu, Jianxin Ma, Jorg Degenhardt, Feng Chen\*. Dynamic evolution of herbivore-induced sesquiterpene biosynthesis in sorghum and related grass crops. *The Plant Journal*. 2012, 69 (1): 70–80.

(11) **Yifan Jiang**, Nan Zhao, Fei Wang, Feng Chen\*. Emission and Regulation of Volatile Chemicals from *Globe Amaranth* Flowers. *Journal of the American Society for Horticultural Science*. 2011, 136(1):16–22.

(12) **Yifan Jiang**, Xinlun Chen, Hong Lin, Fei Wang, Feng Chen\*. Floral Scent in *Wisteria*: Chemical Composition, Emission Pattern, and Regulation. *Journal of the American Society for Horticultural Science*. 2011, 136(5):307–314.

(13)姜一凡, 徐维杰, 廖飞雄, 刘晓荣. 卫星搭载鸡冠花种子SP2代的生长、发育与性状变异研究. *激光生物学报*. 2013. 22 (5) : 410-416