



## 陈法军

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### 研究方向：

- 1) 环境昆虫学和全球气候变化生物学
- 2) 植物-昆虫-共生菌互作关系研究
- 3) 昆虫迁飞生理学、迁飞动力学和地磁定向研究

### 教育经历：

2004.08~2006.08:浙江大学农业与生物技术学院（浙江省农科院博士后工作站），博士后

2001.08~2004.07:中国科学院动物研究所整合生物学中心生态学专业获得理学博士学位

1998.09~2001.07:南京农业大学植保系农业昆虫与害虫治理专业获得农学硕士学位

1994.09~1998.07:莱阳农学院植保系植物保护专业获得农学学士学位

### 工作经历：

2011.12 – 今:南京农业大学植物保护学院，教授，博导

2006.12-2011.12:南京农业大学植物保护学院，副教授、硕士研究生导师

2011.01-2012.01:美国 Texas A&M University 的 AgriLife Research Center (Lubbock) ,访问学者

### 承担课题:

1. 国家自然科学基金面上项目——温度和 CO<sub>2</sub> 浓度升高下褐飞虱生理与行为响应及其调控机理研究 (31871963; 2019.01~2022.12; 70.80 万元; 主持; 在研)
2. 国家重点研发计划“化学肥料和农药减施增效综合技术研发”专项——“活体生物农药增效及有害生物生态调控机制”之“多因子协同控害的区域性农田病虫害生态调控机制”(2017YFD0200400; 2017~2020; 72 万元; 骨干; 在研)
3. 转基因生物新品种培育科技重大专项重大项目——自然生态风险监测与控制技术: 任务九“基于农田景观多样性布局的多种转基因作物自然生态风险综合防控技术” (2016ZX08012-005; 2016~2020; 142.30 万元; 子课题主持; 在研)
4. 环境保护部“生物多样性保护”专项——“京津冀太行山优先区域太行山片区昆虫多样性调查与评估” (主持; 2019.07-2020.10; 58 万元; 主持; 在研) 。
5. 环境保护部“生物多样性保护”专项——“北京延庆区昆虫多样性调查与评估示范” (主持; 2017.09-2018.12; 40 万元; 主持; 结题) 。

### 代表性科研成果:

1. Li LK, Wang MF, Pokharel SS, Li CX, Parajulee MN, Chen FJ, Fang WP. 2019. Effects of elevated CO<sub>2</sub> on foliar soluble constituents and functional

components of tea, and population dynamics of tea aphid, *Toxoptera aurantii*.

Plant Physiology and Biochemistry, DOI: 10.1016/j.plaphy.2019.10.023.

2. Liu YM, Dang ZH, Wang YH, Wan GJ, Parajulee MN, Chen FJ\*. 2019. Interactive effects of [CO<sub>2</sub>] and temperature on plant chemistry of transgenic Bt rice and population dynamics of a non-target planthopper, *Nilaparvata lugens* (Stål) under different levels of soil nitrogen. *Toxins*, 11, 261.
3. Wang L, Pokharel SS, Chen FJ\*. 2019. Arbuscular mycorrhizal fungi alter the food utilization, growth, development and reproduction of armyworm, *Mythimna separata* fed on *Bacillus thuringiensis* maize. *Peer J*, DOI: 10.7717/peerj.7679.
4. Song YY, Liu RY, Wang MF, Liu MQ, Liu XH, Ge F, Chen FJ\*. 2019. Transgenic Bt rice with single Cry1Ab and fused Cry1Ab/Cry1Ac have specific effects on the abundance dynamics and community diversity of soil mites. *Archives of Agronomy and Soil Science*, <https://doi.org/10.1080/03650340.2019.1628345>.
5. Qian L, Liu XW, Huang ZJ, Zhang YF, Wang L, Gui FR\*, Gao YL, Chen FJ\*. 2019. Elevated CO<sub>2</sub> enhances the host resistance against the Western flower thrips, *Frankliniella occidentalis*, through increased callose deposition. *Journal of Pest Science*, <https://doi.org/10.1007/s10340-019-01123-7>.
6. Li Z, Li LK, Liu B, Wang L, Parajulee MN, Chen FJ\*. 2019. Effects of seed mixture sowing with transgenic Bt rice and its parental line on the population dynamics of target stemborers and leafrollers, and non-target planthoppers. *Insect Science*, 26: 777-794.
7. Qian L, He SQ, Liu XW, Huang ZJ, Chen FJ\*, Gui FR\*. 2018. Effect of elevated CO<sub>2</sub> on the interaction between invasive thrips, *Frankliniella occidentalis*, and its host kidney bean, *Phaseolus vulgaris*. *Pest Management Science*, 74: 2773-2782.
8. Li Z, Wan GJ, Wang L, Zhang YF, Parajulee MN, Zhao ZH, Chen FJ\*. 2018. Effects of seed mixture sowing with resistant and susceptible rice on population dynamics of target planthoppers and non-target stemborers and leafrollers. *Pest Management Science*, 74: 1664-1676.
9. Dai Y, Wang MF, Jiang SL, Zhang YF, Parajulee MN, Chen FJ\*. 2018. Host-selection behavior and physiological mechanisms of the cotton aphid, *Aphis*

- gossypii, in response to rising atmospheric carbon dioxide levels. *Journal of Insect Physiology*, 109: 149-156.
10. Jiang SL, Lu YQ, Dai Y, Qian L, Muhammad AB, Li T, Wan GJ, Parjulee MN, Chen FJ\*. 2017. Impacts of elevated CO<sub>2</sub> on exogenous *Bacillus thuringiensis* toxins and transgene expression in transgenic rice under different levels of nitrogen. *Scientific Reports*, 7: 14716 (DOI:10.1038/s41598-017-15321-9)

### 社会服务工作:

1. 中国昆虫学会农业昆虫专业委员会委员
2. 江苏省昆虫学会理事
3. 《应用昆虫学报》编委

### 荣誉奖励:

1. 高校“青蓝工程”优秀中青年学术带头人 (2014~2018)
2. 江苏省“133”重点人才工程二期人才培养人选 (2010~)
3. 高校“青蓝工程”优秀青年骨干教师培养对象 (2010~2014)
4. 中国科学院“地奥”奖学金 (2005.07)
5. 江苏省优秀硕士学位论文 (2002.12)