Chen Xuan

Professor
Dean of department of tea science

Areas of Research

Tea physiology and tea biochemistry, effects of acidic soil to tea plants.

Contact Information

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Research Interests

1.The distribution mechanism of tea plant nutrition in "soil-root-stem-leaf" cycle

2. Absorption mechamism of "H+-Aluminum-Nutrients" in Tea Garden Soil

3. The stress mechanism of metal elements in tea plants in acidic environment

Education Background

Bachelor：Shandong University

Master：Zhejiang University

Doctor：Nanjing Agricultural University

Work experience

Assistant / Associate/Full Professor, Nanjing Agricultural University 2005-

Selected Publication

Rajiv Periakaruppan[#], Xuan Chen[#], Kuberan Thangaraj, Anburaj Jeyaraj, Hoang Ha Nguyen, YingYu, Shunkai Hu, Li Lu, Xinghui Li*. 2021, Utilization of tea resources with the production of superparamagnetic biogenic iron oxide nanoparticles and an assessment of their antioxidant activities. Journal of Cleaner Production. 278 : 123962

Emmanuel Arkorful, Shunkai Hu, Zhongwei Zou, Ying Yu, Xuan Chen*, and Xinghui Li*. 2020, Metabolomic analyses provide new insight into signaling mechanisms for nutrient uptake by lateral roots of pruned tea plant (*Camellia sinensis*), *J. Agric. Food Chem* 68, 30, 7890–7903

Emmanuel Arkorful, Ying Yu, Changsong Chen, Li Lu, Shunkai Hu, Hanpu Yu, Qingping Ma, Kuberan Thangaraj, Rajiv Periakaruppan, Anburaj Jeyaraj, Xuan Chen*, Xinghui Li*, 2020, Untargeted metabolomic analysis using UPLC-MS/MS identifies metabolites involved in shoot growth and development in pruned tea plants (Camellia sinensis (L.) O. Kuntz), Scientia Horticulturae 264: 109164

HuiJuan Li HaiBing Wang, Yi Chen, QingPing. Ma, Zhen Zhao, XingHui Li, and Xuan Chen*, 2020, Isolation and expression profiles of class III PRX gene family under drought stress in Camellia sinensis, BIOLOGIA PLANTARUM 64: 280-288

Jiahao Li, Yiqing Yang, Kang Sun, Yi Chen, Xuan Chen * and Xinghui Li * 2019, Exogenous Melatonin Enhances Cold, Salt and Drought Stress Tolerance by Improving Antioxidant Defense in Tea Plant (Camellia sinensis (L.) O. Kuntze)，MOLECULES，24, 1826.

Jin Li[#], Kang Sun[#], Qingping Ma, Jin Chen, Le Wang, Dingjun Yang, Xuan Chen*and Xinghui Li1*.2017. Colletotrichum gloeosporioides-Contaminated Tea Infusion Blocks Lipids Reduction and Induces Kidney Damage in Mice，FRONTIERS IN MICROBIOLOGY，8: 2089

Mingle Wang, Zhongwei Zou, Qinghui Li, Huahong Xin, Xujun Zhu,Xuan Chen, Xinghui Li*. 2017. Heterologous expression of three Camellia sinensis small heat shock protein genes confers temperature stress tolerance in yeast and Arabidopsis thaliana，PLANT CELL REPORTS，36:1125–1135