

Publications

SCI papers:

- Chen X**, Ru Y, Takahashi H, Nakazono M, Shabala S, Smith SM et al. (2023) Single-cell transcriptomic analysis of pea shoot development and cell-type-specific responses to boron deficiency. *Plant Journal*. <https://doi.org/10.1111/tpj.16487>
- Chen X**, Zhao C, Yun P, Yu M, Zhou M, Chen ZH, Shabala S (2023) Climate-resilient crops: Lessons from xerophytes. *Plant Journal*. <https://doi.org/10.1111/tpj.16549>
- Chen X**, Smith SM, Shabala S, Yu M (2023) Phytohormones in plant responses to boron deficiency and toxicity. *Journal of Experimental Botany*. <https://doi.org/10.1093/jxb/erac443>
- Chen X**, He Y, Shabala S, Smith SM, Yu M (2023) Multi-omics analysis reveals activation of jasmonate synthesis and modulation of oxidative stress responses in boron deficient pea. *Environmental and Experimental Botany*. <https://doi.org/10.1016/j.envexpbot.2023.105583>
- Chen X**, Humphreys JL, Ru Y, He Y, Wu F, Mai J et al. (2022) Jasmonate signaling and remodeling of cell wall metabolism induced by boron deficiency in pea shoots. *Environmental and Experimental Botany*. <https://doi.org/10.1016/j.envexpbot.2022.104947>
- Chen X**, Gao H, Chen Z, Li T, Zhang Z, Yun Z, Jiang Y (2020) Metabolic variations in the pulp of four litchi cultivars during pulp breakdown. *Food Research International*. <https://doi.org/10.1016/j.foodres.2020.110080>
- Chen X**, Wu Q, Chen Z, Li T, Zhang Z, Gao H, Yun Z et al. (2019) Changes in pericarp metabolite profiling of four litchi cultivars during browning. *Food Research International*. <https://doi.org/10.1016/j.foodres.2019.02.046>
- Xu Q, Wu M, Zhang L, **Chen X**, Zhou M, Jiang B et al. (2024) Unraveling Key Factors for Hypoxia Tolerance in Contrasting Varieties of Cotton Rose by Comparative Morpho-physiological and Transcriptome Analysis. *Physiologia Plantarum*. <https://doi.org/10.1111/ppl.14317>
- Chen Z, He M, Zhou Y, **Chen X**, Zhu H, Yang B et al. (2023) Degradation of water-soluble polysaccharides in pulp of litchi during storage. *Food Chemistry*. <https://doi.org/10.1016/j.foodchem.2022.134289>
- Yun Z, Gao H, **Chen X**, Duan X, Jiang Y (2022) The role of hydrogen water in delaying ripening of banana fruit during postharvest storage. *Food Chemistry*. <https://doi.org/10.1016/j.foodchem.2021.131590>
- Yun Z, Gao H, **Chen X**, Chen Z, Zhang Z, Li T, Qu H, Jiang Y (2020) Effects of hydrogen water treatment on antioxidant system of litchi fruit during the pericarp browning. *Food Chemistry*. <https://doi.org/10.1016/j.foodchem.2020.127618>
- Wu Q, Li Z, **Chen X**, Yun Z, Li T, Jiang Y (2019) Comparative metabolites profiling of harvested papaya (*Carica papaya* L.) peel in response to chilling stress. *Journal of the Science of Food and Agriculture*. <https://doi.org/10.1002/jsfa.9972>
- Wu Q, Li T, **Chen X**, Wen L, Yun Z, Jiang Y (2018) Sodium dichloroisocyanurate delays ripening and senescence of banana fruit during storage. *Chemistry Central Journal*. <https://doi.org/10.1186/s13065-018-0503-5>

Patents:

- Jiang Y, Wu Q, Zhang D, Duan X, Li T, Jian Q, Liu J, **Chen X**. A banana preservative and banana storage preservation method: China, 201810291872.6 [P]. 2021-10-15.
- Jiang Y, Wu Q, Zhang D, Duan X, Li T, Jian Q, Liu J, **Chen X**. A papaya preservative and papaya storage preservation method: China, 201810290826.4 [P]. 2021-12-10.