

Xiaoming Yin

Professor of Environmental and Biological Sciences

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Education:

- Ph.D., Nanjing Agricultural University; Plant Sciences, 2010
- M.D., Institute of Botany Jiangsu Province and Chinese Academy of Sciences, 2002

Research interests and expertise:

My research has examined plant nutritional physiology. This includes plant electro-physiological and biochemical responses to nitrogen status. Currently, I focus on crop nutrient management under environmental stress such as salinity, heavy metals and polycyclic aromatic hydrocarbons (PAHs). I have found that nitrogen and phosphorus levels and their interactions may alleviate abiotic stress. This might be help for the green production of crops.

Current teaching:

- Agricultural and Chemical Analysis of Soil

Selected publications:

- 1) Yin XM, Liang X, Xu GH, Zhan XH (2014) Effect of phenanthrene uptake on membrane potential in roots of soybean, wheat and carrot. *Environmental and Experimental Botany* 99: 53–58.
- 2) Yin X M, Luo W, Wang SW, Shen Q R, Long X H (2014) Effects of nitrogen starvation on the response of two rice cultivars to nitrate uptake and utilization. *Pedosphere*, 24(5): 690-698
- 3) Yin XM, Liang X, Zhang R, Yu L, Xu GH, Zhou QS, Zhan XH (2015) Impact of phenanthrene exposure on activities of nitrate reductase, phosphoenolpyruvate carboxylase, vacuolar H⁺-pyrophosphatase and plasma membrane H⁺-ATPase in roots of soybean, wheat and carrot. *Environmental and Experimental Botany*. 113: 59-66
- 4) Yin XM, Quan LT, Yang N, Zheng CF, Shi F, Wang CH, Zheng QS(2016) Comparison of the Distribution of Mineral Nutrients and Active Substances in Dehydrationand Salinity-Stressed Aloe vera. *Journal of Plant Nutrition*, 39(13):1840-1851

Prizes, awards, honors:

- Advanced individual of practical teaching, Nanjing Agricultural University 2017