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研究助理

马传鑫

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广东工业大学环境生态工程研究院A+类特聘教授, 硕导。

一 基本信息

马传鑫, 1985年生, 美国马萨诸塞大学阿默斯特分校植物与土壤科学博士, 广东工业大学环境生态工程研究院A+类特聘教授。主要从事工程纳米颗粒在土壤中的环境行为及生态毒理、植物抗逆生理、新型纳米材料在农业生产中的应用等方面的研究。

二 研究方向

环境土壤化学、环境生物学、环境分析化学。

三 教育经历

2004.9-2008.6, 天津理工大学, 环境科学, 获学士学位;

2008.9-2011.6, 天津理工大学, 环境科学, 获硕士学位;

2011.9-2016.6, 美国马萨诸塞大学阿默斯特分校, 植物与土壤科学, 获博士学位。

四 工作经历

2016.09-2017.08 美国康涅狄格州农业试验站 博士后(Postdoc Agricultural Scientist)

2017.09-2019.04 美国威斯康星大学麦迪逊分校 研究助理(Research Associate)

2019.04-2020.07 美国康涅狄格州农业试验站研究助理(Postdoc Associate)

2020.09-至今, 广东工业大学环境生态工程研究院, 教授、硕导。



五 学术兼职

1. Plant Physiology and Biochemistry期刊编委

2. Sustainable Nanotechnology Organization (SNO)会员

六 科研成果

1. **Ma, C.**; Liu, H.; Guo, H.; Chen, G.; Zhao, Q.; Rakesh M.; Long, S.; Tang, Y.; Saad, E.; DeLa TorreRoche, R.; White, J.; Dhankher, P.^{*}; Xing, B.^{*}, Dual roles of glutathione in silver nanoparticle detoxification and enhancement of nitrogen assimilation in soybean (*Glycine max*L. [Merrill]). *Environmental Science: Nano* **2020**, 7, 1954-1966 (IF: 7.704; Recent HOT Articles)

2. Hao, Y.^{*}; **Ma, C.**[†]; White, J.; Adeel, M.; Jiang, R.; Zhao, Z.; Rao, Y.; Rui, Y.[†]; Xing, B., Physiological response and endophytic fungal composition in rice (*Oryza sativa*L.) as affected by different carbon-base nanomaterials. *Environmental Science: Nano* **2020**, 7, 2047-2060 (IF: 7.704)

3. **Ma, C.**; Borgatta, J.; Torre-Roche, R.; Zuverza-Mena, N.; White, J.[†]; Hamers, R.; Elmer, W., Time-dependent transcriptional response of tomato (*Solanum lycopersicum*L.) to Cu nanoparticle exposure upon infection with *Fusarium oxysporum f. sp. lycopersici*. *ACS Sustainable Chemistry & Engineering* **2019**, 7 (11): 10064-10074 (IF: 6.970)

4. Rui, M.^{*}; **Ma, C.**^{†, *}; Jason C. White; Hao, Y.; Wang, Y.; Tang, X.; Yang, J.; Jiang, F.; Rui, Y.[†]; Cao, W.; Chen, G.; Xing, B., Metal oxide nanoparticles alter peanut (*Arachis hypogaea*L.) physiological response and reduce nutritional quality: A life cycle study. *Environmental Science: Nano* **2018**, 5: 2088-2102 (IF: 7.704)

5. Hao, Y.^{*}; Yuan, W.^{*}; **Ma, C.**^{†, *}; White, J.C.; Zhang, Z.; Adeel, M.; Zhou, T.[†]; Rui, Y.[†]; Xing, B., Engineered nanomaterials suppress Turnip mosaic virus infection in tobacco (*Nicotiana benthamiana*). *Environmental Science: Nano* **2018**, 5: 1685-1693 (IF: 7.704)

6. **Ma, C.**; White, J.; Zhao, J.; Zhao, Q.; Xing, B.[†], Uptake of nanoparticles by food crops: characterization, mechanisms, and implications. *Annual Review of Food Science and Technology* **2018**, 9: 129-153 (Invited Review Article; IF: 8.511)

7. **Ma, C.**; White, J. C.; Dhankher, O. P.[†]; Xing, B.[†], Metal-based nanotoxicity and detoxification pathways in higher plants. *Environmental science & technology* **2015**, 49 (12): 7109-7122 (Critical Review; IF: 7.149; 高被引)

8. **Ma, C.**; Chhikara, S.; Minocha, R.; Long, S.; Musante, C.; White, J. C.; Xing, B.[†]; Dhankher, O. P.[†], Reduced silver nanoparticle phytotoxicity in *Crambe abyssinica* with enhanced glutathione production by overexpressing bacterial γ -glutamylcysteine synthase. *Environmental Science & Technology* **2015**, 49 (16): 10117-10126 (IF: 7.149)

9. **Ma, C.**; Liu, H.; Guo, H.; Musante, C.; Coskun, S.H.; Nelson, B.C.; White, J.C.; Xing, B.[†]; Dhankher, O.P.[†], Defense mechanism and nutrient displacement of *Arabidopsis thaliana* in response to exposures of CeO₂ and In₂O₃ nanoparticles. *Environmental Science: Nano* **2016**, 3: 1369-1379 (IF:

10. Ma, C.*; Liu, H.*[†]; Chen, G.; Zhao, Q.; Eitzer, B.; Wang, Z.; Cai, W.; Newman, L.; White, J. C.; Dhankher, P.; Xing, B.[†], Effects of titanium oxide nanoparticles on tetracycline accumulation and toxicity in *Oryza sativa*L. *Environmental Science: Nano* **2017**, 4: 1827-1839 (IF: 7.704)

11. Liu, H.*; Ma, C.*; Chen, G.; White, J.C.; Wang, Z.; Xing, B.[†]; Dhankher, P.[†], Titanium dioxide nanoparticles alleviate tetracycline toxicity to *Arabidopsis thaliana*. *ACS Sustainable Chemistry & Engineering* **2017**, 5: 3204-3213 (IF: 6.970)

12. Zhao, Q.*[†]; Ma, C.*; White, J.C.; Dhankher, O. P.; Zhang, X.; Zhang, S.; Xing, B.[†], Quantitative evaluation of multi-walled carbon nanotube uptake by terrestrial plants. *Carbon* **2017**, 114: 661-670 (IF: 7.466)

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15. Hao, Y.*; Ma, C.*; Zhang, Z.; Song, Y.; Cao, W.; Guo, J.; Zhou, G.; Rui, Y.[†]; Liu, L.; Xing, B., Carbon nanomaterials alter plant physiology and soil microbial community composition in a rice-soil-microbial ecosystem. *Environmental Pollution* **2018**, 232: 123-136 (IF: 5.714)

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17. Xu, Tao.*; Ma, C.*; Aytac, Z.; Hu, X.; Ng, K.; White, J.[†]; Demokritou, P.[†], Enhancing agrichemical delivery and seedling development with biodegradable, tunable, biopolymer-based nanofiber seed coatings. *ACS Sustainable Chemistry & Engineering* **2020**, 8 (25), 9537-9548(IF: 6.970)

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20. Zhang, Z.; Xia, M.; Ma, C.; Guo, H.; We, W.; White, J.; Xing, B.; He, L.[†], Rapid Organic Solvent Extraction Coupled with Surface Enhanced Raman Spectroscopic Mapping for Ultrasensitive Quantification of Silver Nanoparticles in Plant Leaves. *Environmental Science: Nano* **2020**, 7, 1061-1067(IF: 7.704)

21. Cao, X.; Ma, C.; Zhao, J.; Musante, C.; White, J.; Wang, Z.[†]; Xing, B.[†], Interaction of graphene oxide with co-existing arsenite and arsenate: adsorption, transformation and joint toxicity. *Environment International* **2019**, 131, 104992(IF: 7.943)

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23. Borgatta, Y.; Ma, C.; Hudson-Smith, N.; Elmer, W.; Plaza-Pere, C.; Roche, R.; Zuverza-Mena, N.; Haynes, C.; White, J.[†];

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