

Peer Reviewed Publications

J. Hou, Y. Xiang, D. Zheng, Y. Li, S. Xue, C. Wu, **W. Hartley**, W. Tan. Morphology-Dependent Enhancement of Arsenite Oxidation to Arsenate on Birnessite-Type Manganese Oxide. *Chemical Engineering Journal*. 2017. 327, 235–243.

C. Wu, L. Huang, S. Xue, Y. Huang, **W. Hartley**, M. Cui, M.H. Wong. Arsenic sorption by red mud-modified biochar produced from rice straw. *Environ Sci. Pollut. Res.* DOI 10.1007/s11356-017-9466-7

S. Xue, L. Shia, C. Wu, H. Wu, Y. Qin, W. Pan, **W. Hartley**, M. Cui. Cadmium, lead, and arsenic contamination in paddy soils of a mining area and their exposure effects on human HEPG2 and keratinocyte cell-lines. *Environmental Research*. 2017. 156, 23-30.

W. Pan, C. Wu, Q. Wang, Z. Su, H. Zhou, A. K. C. Chung, **W. Hartley**, L. Ge. Effect of wetland plants and bacterial inoculation on dissipation of phenanthrene. *International Journal of Phytoremediation*. doi.org/10.1080/15226514.2017.1301877

C. Wu, L. Huang, S. Xue, W. Pan, Q. Zou, **W. Hartley**, J. Mo. Effect of arsenic on spatial pattern of radial oxygen loss and iron plaque formation in rice. *Transactions of Nonferrous Metals Society of China*. 2017. 27, 413-419.

X. Kong, Y. Guo, S. Xue, **W. Hartley**, C. Wu, Y. Ye, Q. Cheng. Natural evolution of alkaline characteristics in bauxite residue. *Journal of Cleaner Production*. 2017. 143, 224–230.

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C. Wu, Q. Wang, S. Xue, W. Pan, L. Lou, D. Li, **W. Hartley**. Do aeration conditions affect arsenic and phosphate accumulation and phosphate transporter expression in rice (*Oryza sativa* L.)? *Environmental Science and Pollution Research*. 2017. doi:10.1007/s11356-016-7976-3.

C. Wu, Q. Zou, S. Xue, W. Pan, X. Yue, **W. Hartley**, L. Huang, J. Mo. Effect of silicate on arsenic fractionation in soils and its accumulation in rice plants. *Chemosphere* 2016. 165, 478-486.

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F. Zhu, X. Li, S. Xue, **W. Hartley**, C. Wu, F. Han. Natural plant colonization improves the physical condition of bauxite residue over time. *Environmental Science and Pollution Research*. 2016. doi:10.1007/s11356-016-7508-1

W. Hartley, P. Riby, J. Waterson. Effects of three different biochars on aggregate stability, organic carbon mobility and micronutrient bioavailability. *Journal of Environmental Management*. 2016. 181, 770-778.

F. Zhu, J. Liao, S. Xue, **W. Hartley**, Q. Zou, H. Wu. Evaluation of aggregate microstructures following natural regeneration in bauxite residue as characterized by synchrotron-based X-ray micro-computed tomography. *Science of the Total Environment* 2016. 573, 155–163. doi.org/10.1016/j.scitotenv.2016.08.108.

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