

# LONGBIN HUANG

PRINCIPAL RESEARCH FELLOW (ASSOCIATE PROFESSOR)  
PROGRAM LEADER – ECOLOGICAL ENGINEERING OF SOIL-PLANT SYSTEMS  
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## EDUCATION

2002	B.IT. (Comp Studies)	Murdoch University, Australia
1994	PhD in Environmental Science (Soil-Plant	Murdoch University, Australia
1986	Relation) BSc (Honours) in Agronomy (Soil Science & Plant Physiology)	Jiangxi Agricultural University, China

## EMPLOYMENT HISTORY

2015 – Present	Principal Research Fellow, Program Leader - Ecological Engineering of Soil-Plant Systems), Environment Centres (Centre for Mined Land Rehabilitation (CMLR)), Sustainable Minerals Institute (SMI), The University of Queensland (UQ).
2007 – 2014	Senior Research Fellow & group leader in Eco-Engineering of Soil-Plant Systems, CMLR, SMI, UQ.
2009 – 2011	Professorial Research Fellow in Plant Mineral Nutrition, College of Natural Resources and Environmental Science, South China Agricultural University, Guangzhou, China.
2004 – 2007	Lecturer (Level B, tenure position) in Plant Mineral Nutrition, School of Land & Food Sciences, The University of Queensland.
2002 – 2004	Lecturer (Level B)/Research Fellow in Plant Mineral Nutrition and Land Management, School of Environmental Science, Murdoch University.
1998 – 2002	Research Fellow in Plant Mineral Nutrition, School of Environmental Science, Murdoch University.
1997 – 1998	Postdoctoral Research Scientist in Soil Science and Land Management, Division of Forestry and Forest Products, CSIRO.
1994 – 1997	Postdoctoral Research Fellow in Plant Trace Element Nutrition and Crop Land Management, School of Environmental Science, Murdoch University, Australia.

## AWARDS

2017	SMI-Industry Engagement Award, University of Queensland
2015	SMI-Inaugural Bright Research Ideas Forum Award, University of Queensland
2014	SMI-RHD Supervision Award, University of Queensland
2009 – 2011	Vice Chancellor Professorial Research Fellowship, South China Agricultural University, China
2001	GRDC Travel Award, Australia
1999	Australian Research Council (ARC) International Research Exchange Program – Asia Pacific Link Award (Japan)
1997	Australian Plant Nutrition Trust – Jack Loneragan Award

## **MEMBERSHIP OF BOARD, COMMITTEE AND SOCIETY**

### **PROFESSIONAL ASSOCIATIONS AND SOCIETIES**

- 2010 – Present Australian Soil Science Society.  
2016 – Present Soil Society of America  
2015 – Present American Society of Mining and Reclamation (ASMR)  
2016 – Present Society for Ecological Restoration (SER)

### **EDITORIAL BOARDS**

- 2017 - present: Member of Editorial Board, *Scientific Report (Nature)*  
2017 - present: Section Editor, *Plant and Soil*  
2011 - present: section editor, *Frontiers in Plant Science*, section Plant Nutrition  
2012 – present: coordinating editor, *Environmental Geochemistry and Health*

### **COMMITTEE**

- 2008 – present: Member of Academic Committee, Key Laboratory of Land Consolidation and Rehabilitation, Ministry of Land and Resources of China.  
2016 – present: SMI representative, Local Confirmation and Promotion Committee (Level B-D).

## **RESEARCH FUNDING**

### **PENDING PROJECTS**

1. Ecological Engineering of Soil and Landform for Sustainable Rehabilitation of Red Mud Dams - QAL-Long Term Rehabilitation Trials. **QAL** (2018-2020) (under contracting).  
**L.Huang**

### **CURRENT PROJECTS**

1. **Developing in situ Technology for Engineering Red Mud into Functional Soil - A new technology for cost-effective and sustainable rehabilitation of red mud domains. Rio Tinto Aluminium (RTA) (2018-2019).**  
**L.Huang**
2. **Eco-engineering soil from mine tailings for native plant rehabilitation, ARC Linkage Proposal (LP16) (019806). (2016-2019).**  
**L.Huang et al.**
3. **A Proposal to engage field-research expertise for developing in situ strategies of tailings rehabilitation at Karara mine (909UWAKARA), Karara Mining Ltd. (2016-2019).**  
**L.Huang**
4. **Evaluation of Key Attributes of Nutrient Cycling in Revegetated Waste Rock Landform of Ranger Uranium Mine. ERA Ltd (2017-2018).**  
**L. Huang**
5. **A pilot study to scope treatment factors in eco-engineering technosols and hardpan from seawater neutralised red mud at QAL Refinery, Queensland Alumina Ltd (2017-2018)**  
**L.Huang**
6. **A pilot study to scope requirements for eco-engineering technosols from seawater neutralized red mud of RTA-Yarwun Operations, RTA-Yarwun (2017-2018).**  
**L.Huang**  
**Longbin Huang, P Bond, J Stevens, J Lambers, K Dixon, G Southam, R Houlihan**

## COMPLETED PROJECTS

- 7. Developing Options and Strategies for Red Mud Bioremediation at Rodinia Resources Pty Ltd Stage 1– A Proof of Concept, Rare Metals Jamaica Limited, (2015 – 2016).**  
**L. Huang**
- 8. An Examination of Tailings Revegetation Options and Strategies at Mt Isa Phase II: Evaluation of Amendment Options for Reconstructing a Root Zone in Base Metal Mine Tailings for Supporting Open-shrubland Ecosystems - Root Zone Reconstruction Requirements and Field Model.**  
Xstrata copper (Mount Isa Mines) (2012-2015)  
**L Huang** and T Baumgartl (UQ)
- 9. Biogeochemical processes of hardpan formation in sulfidic base metal tailings**  
SMI-Category I research grant SMI, UQ.  
**L Huang**
- 10. Research on Key Technology Cooperation for Comprehensive Improvement to Acidic Pollution in Metallic Mine Dump**  
Ministry of Science and Technology, China Central Government, DeXing Copper Mine, Jiangxi, China ( 2012-2014)  
**L Huang**, T. Baumgartl, M. Edraki at UQ and L Zhou and Q Wang in Beijing General Institute of Mining and Metallurgy, China)
- 11. Transitional Research Plan: Evaluation of Tailings Amendment Options on Native Grass Growth, Mineral Nutrition and Arsenic Accumulation in Plants**  
Xstrata Copper (Ernest Henry Mine) (2012-2013).  
**L Huang**, T Baumgartl (UQ)
- 12. Demonstration Trials to Understand and Assess the Processes Required to Recover the Productivity of Cropping Soils After Mining (Terminated in 2013)**  
ACARP  
T Baumgartl, **L Huang**
- 13. Engineering Biochars for Restoring and Sustaining Soil-Plant Systems – from Mined Land to Crop fields**  
UWA – UQ Bilateral Research Collaboration Award  
**L Huang** with 7 others (UQ)
- 14. Tailoring Nano-crystal Suspensions for Extended Ion Supply to Hydrophobic and Hydrophilic Leaf Surfaces**  
ARC Linkage Grant  
A Nguyen, ZP Xu and **L Huang** (UQ)
- 15. Developing a Strategy for Revegetating Saline Red Mud at the Gove Alumina Refinery**  
Rio Tinto Alcan Gove  
T Baumgartl, M Edraki, **L Huang** (UQ)
- 16. Phosphorus Use Efficiency (PUE) in Sugarcane Genotypes**  
UQ-CIEF Grant  
I Godwin, **L Huang**, D Joyce (UQ)
- 17. Improved Stability and Functionality of Cross-linking Biopolymer Membrane by Incorporating Clay Nanomaterials**  
UQ-CIEF Grant (partnered with Incitec Pivot Ltd)  
ZP Xu, **L Huang**, R Truss (UQ)
- 18. Preparation of Cross-linking Starch-based Nanocomposite Films and Characterisation of Water Adsorption and Mechanical Strength**

- Incitec Pivot Ltd  
ZP Xu, **L Huang**, R Truss (UQ)
- 19. Developing a Closure Strategy for Current Tailings Storage Facilities at Northparkes Mines** Technological Resources Ltd  
T Baumgartl, M Edraki, L Huang, A Fletcher, D Mulligan (UQ)
  - 20. Increasing Phosphorus Fertiliser Use Efficiency in Crop Production Using Novel Water-sensing Crosslinking Biopolymer Nanocomposites**  
UQ-First Link,  
L Huang
  - 21. An Examination of Options and Strategies for Tailings Revegetation at Mt Isa & Ernest Henry Mines**  
Xstrata Copper (Mount Isa Mines)  
**L Huang**, A Fletcher, T Baumgartl, D Mulligan (UQ)
  - 22. Training Workshop in Research Design, Data Analysis, and Interpretation in Adaptive Research**  
Australian Centre for International Agricultural Research (ACIAR)  
L Huang, O Kravchuk (UQ)
  - 23. Training Workshops in Research Design, Data Analysis, and Interpretation in Adaptive Research – Indonesia and Papua New Guinea**  
Australian Centre for International Agricultural Research (ACIAR)  
L Huang, O Kravchuk (UQ)
  - 24. Design and Analysis of Agricultural Experiments and Interpretation of experimental Findings**  
Australian Centre for International Agricultural Research (ACIAR)  
L Huang, O Kravchuk (UQ)
  - 25. Quantifying Effects of Maize Rotation on Soil Quality and Nutrient Availability on Cotton Growth and Yield**  
Pioneer Hi-Bred Australia Pty Ltd  
**L Huang**
  - 26. Low Temperature Tolerance of New Hardwood Species Corymbia-hybrids and Modulation by Boron Nutrition**  
UQ-First Link.  
L Huang
  - 27. Nutriomics of Iron (Fe) Sink-Source Relationship in Rice During Grain-filling**  
UQ-R&D Grant  
**L Huang**, I Godwin, S Fukai (UQ)
  - 28. Management of Parthenium Weed through Fertilizer Application”**  
Queensland Murray Darling Committee Inc.  
S Aktins, L Huang (UQ)
  - 29. Investigation of Little Leaf Syndromes in Eucalypts Plantations Treated with Herbicides**  
Integrated tree cropping Ltd (ITC Ltd.)  
L Huang, B Dell (Murdoch University)
  - 30. Evaluation of P-supplying Behaviour and Capacity of Ironman-P Products in Contrasting Western Australian Soils**  
Iluka Resources Ltd  
L Huang, R Bell (Murdoch University)
  - 31. Boron Distribution in Anther Cells (ARC IREX Award)**

## PUBLICATIONS

### Scholarly Book Chapters

1. **Huang L** and You F (2017) Chapter 5 Rehabilitation of Biological Characteristics in Mine Tailings. In Eds N.S. Bolan, M.B. Kirkham and Y.S. Ok, *Spoil to Soil: Mine Site Rehabilitation and Revegetation* CRC Press
2. Wijesekara, H., Bolan, N. S., Vithanage, M., Xu, Y., Mandal, S., Brown, S. L., Hettiarachchi, G. M., Pierzynski, G. M., **Huang, L.**, Ok, Y. S., Kirkham, M. B., Saint, C. and Surapaneni, A. (2016). Utilization of Biowaste for Mine Spoil Rehabilitation. In *Advances in agronomy* (pp. 97-173) London, United Kingdom: Academic Press. doi:10.1016/bs.agron.2016.03.001
3. Goldbach HE, **Huang L**, Wimmer MA (2007) Boron functions in plants and animals: recent advances in boron research and open questions. In 'Advances in Plant and Animal Boron Nutrition.' (Eds F Xu, HE Goldbach, PH Brown, RW Bell, T Fujiwara, CD Hunt, S Goldberg and L Shi) pp. 3-25. (Springer: Dordrecht).
4. Bell RW, Dell B, **Huang L** (2004) Importance of micronutrients in crop nutrition. In: IFA International Symposium on Micronutrients. 23-25 February. New Delhi, India.
5. Dell B, Xu D, Rogers C and Huang L (2003) Micronutrient disorders in eucalypt plantations: causes, symptoms, identification, impact and management. In: Eds Wei R-P, Xu D, Eucalyptus Plantations Research, Management and Development – Proceedings of the International Symposium. World Scientific Publ. Co., Singapore, pp. 241-252.
6. **Huang L**, Dell B (2003) Database system approach for integrated plantation nutrition management. In 'Eucalyptus Plantations: Research, Management and Development.' (Eds W Run-Peng and D Xu) pp. 290. (World Scientific: Singapore).

### REFEREED JOURNAL ARTICLES (# corresponding author)

1. Kong X, Tian T, Xue S, Hartley W, **Huang L**, Wu C, Li C (2018) Development of alkaline electrochemical characteristics demonstrates soil formation in bauxite residue undergoing natural rehabilitation. *Land Degradation & Development* 29: 58-67.
2. Wu, Songlin, Hu, Yajun, Zhang, Xin, Sun, Yuqing, Wu, Zhaoxiang, Li, Tao, Lv, Jitao, Li, Jinglong, Zhang, Jing, Zheng, Lirong, **Huang, Longbin** and Chen, Baodong (2018) Chromium detoxification in arbuscular mycorrhizal symbiosis mediated by sulfur uptake and metabolism. *Environmental and Experimental Botany*, 147 43-52.
3. You F, Dalal R, **Huang L**<sup>#</sup> (2018) Biochar and biomass organic amendments shaped different dominance of lithoautotrophs and organoheterotrophs in microbial communities colonizing neutral copper(Cu)-molybdenum(Mo)-gold(Au) tailings. *Geoderma* 309 (2018) 100-110.
4. Igalavithana A D, Park J, Ryu C, Lee Y H, Hashimoto Y, **Huang L**, Kwon E E, Ok Y S and Lee S S (2017) Slow pyrolyzed biochars from crop residues for soil metal(loid) immobilization and microbial community abundance in contaminated agricultural soils. *Chemosphere*, 177 157-166.
5. Li X, Bond P L and **Huang L**<sup>#</sup> (2017) Diversity of As metabolism functional genes in Pb-Zn mine tailings. *Pedosphere*, 27 3: 630-637.
6. Kabas S, Saavedra-Mella F, Huynh T, Kopittke P M, Carter S and **Huang L** (2017) Metal uptake and organic acid exudation of native Acacia species in mine tailings. *Australian Journal of Botany*, 65 4:357-367.

7. Yuan M, Xu Z P, Nguyen T, Baumgartl T and **Huang L**<sup>#</sup> (2017) Interaction of Humic Acid with Cu/Pb-Zn Tailings of Different Degrees of Weathering. *Soil Science Society of America Journal*, 81 4: 712-722.
8. Vithanage, Meththika, Herath, Indika, Almaroai, Yaser A., Rajapaksha, Anushka Upamali, **Huang, Longbin**, Sung, Jwa-Kyung, Lee, Sang Soo and Ok, Yong Sik (2017) Effects of carbon nanotube and biochar on bioavailability of Pb, Cu and Sb in multi-metal contaminated soil. *Environmental Geochemistry and Health*, 1-12..
9. Wang J, Li X, Bai Z and Huang L (2017) The effects of coal gangue and fly ash on the hydraulic properties and water content distribution in reconstructed soil profiles of coal-mined land with a high groundwater table. *Hydrological Processes*, 31(3):687-697.
10. Wang P, Liu Y, Menzies N W, Wehr J B, de Jonge M D, Howard D L, Kopittke P M and **Huang L**<sup>#</sup> (2016) Ferric minerals and organic matter change arsenic speciation in copper mine tailings. *Environmental Pollution*, 218 835-843.
11. Jiang S, Nguyen T A H, Rudolph V, Yang H, Zhang D, Ok Y S and **Huang L**<sup>#</sup> (2016) Characterization of hard- and softwood biochars pyrolyzed at high temperature. *Environmental Geochemistry and Health*, 1-13.
12. Li P, Du Y, **Huang L**, Mitter N and Xu Z P (2016) Nanotechnology promotes the R&D of new-generation micronutrient foliar fertilizers. *RSC Advances*, 6 73: 69465-69478. doi:10.1039/C6RA09428G
13. Liu Y, **Huang L**<sup>#</sup> (2016) Magnetite recovery from copper tailings increases arsenic distribution in solution phase and uptake in native grass. *J Environ Manage*. 2016 May 19. pii: S0301-4797(16)30274-2. doi: 10.1016/j.jenvman.2016.05.025.
14. Yuan M, Nguyen TAH, Xu ZP, Baumgartl T, **Huang L**<sup>#</sup> (2016) Organic amendment and plant growth improved aggregation in Cu/Pb-Zn tailings. *Soil Science Society of American Journal*, 80: 27-37. IF 1.7
15. You F, Dalal RC, **Huang L**<sup>#</sup> (2016) Biochemical properties of highly mineralized and infertile soil modified by acacia and spinifex plants in northwest Queensland, Australia. *Soil Research*, 54: 265-275. IF 1.32
16. Shao, Qi, Weatherley, Dion, Huang, Longbin and Baumgartl, Thomas (2015) RunCA: a cellular automata model for simulating surface runoff at different scales. *Journal of Hydrology*, 529: 816-829.
17. **Huang L**, Li X, Nguyen TAH (2015) Extremely high phosphate sorption capacity in Cu-Pb-Zn mine tailings. *PLoS ONE* 10(8), e0135364. IF 3.23
18. Li X, Bond PL, Van Nostrand JD, Zhou J, **Huang L**<sup>#</sup> (2015). From lithotroph- to organotroph-dominant: directional shift of microbial community in sulphidic tailings during phytostabilization. *Scientific Reports*, 5, 12978. IF 5.58
19. Li X, Zhu Y-G, Shaban B, Bruxner TJC, Bond PL, **Huang L**<sup>#</sup> (2015). Assessing the genetic diversity of Cu resistance in mine tailings through high-throughput recovery of full-length copA genes. *Scientific Reports*, 5, 13258. IF 5.58

20. Du Y, Li P, Nguyen AV, Xu ZP, Mulligan D, **Huang L<sup>#</sup>** (2015) Zinc uptake and distribution in tomato plants in response to foliar supply of Zn hydroxide-nitrate nanocrystal suspension with controlled Zn solubility. *Journal of Plant Nutrition and Soil Science*, 178: 722-731. *IF* 1.46
21. Jiang S, **Huang L<sup>#</sup>**, Nguyen TAH, Ok YS, Rudolph V, Yang H, Zhang D (2015) Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. *Chemosphere*. 142, 64-71. *IF* 3.34
22. Li X, You F, Bond PL, **Huang L<sup>#</sup>** (2015) Establishing microbial diversity and functions in weathered and neutral Cu-Pb-Zn tailings with native soil addition. *Geoderma*, 247-248: 108-116. *IF* 2.77
23. Du Y, Kopittke PM, Noller BN, James SA, Harris HH, Xu Z P, Li P, Mulligan D R, **Huang L<sup>#</sup>** (2015) In situ analysis of foliar zinc absorption and short-distance movement in fresh and hydrated leaves of tomato and citrus using synchrotron-based X-ray fluorescence microscopy. *Annals of Botany*, 115: 41-53. *IF* 3.65
24. You F, Dalal R, Mulligan D, **Huang L<sup>#</sup>** (2015). Quantitative measurement of organic carbon in mine wastes: methods comparison for inorganic carbon removal and organic carbon recovery. *Communications in Soil Science & Plant Analysis*, 46: 375-389. *IF* 0.39
25. Yuan M, Xu ZP, Baumgartl T, **Huang L** (2014) Effects of surface properties of organic matter on cation adsorption in solution phase. *Water, Air, and Soil Pollution*, 225(9): 1-14. *IF* 1.55
26. Li X, **Huang L** (2014) Toward a new paradigm for tailings phytostabilization – nature of the substrates, amendment options and anthropogenic pedogenesis. *Critical Review of Environmental Science and Technology*, 45:813-839. *IF* 3.47
27. Du Y, Li P, Mulligan D, **Huang L<sup>#</sup>** (2014) Foliar zinc uptake processes and critical factors influencing foliar Zn efficacy. *Biointerface Research in Applied Chemistry*, 4: 754-766
28. Li P, Li L, Du Y, Hampton MA, Nguyen AV, **Huang L**, Rudolph V, Xu ZP (2014) Potential foliar fertilizers with copper and zinc dual micronutrients in nanocrystal suspension. *Journal of Nanoparticle Research*, 16: 2669-2676. *IF* 2.18
29. Li P, Du Y, Li Li, **Huang L**, Rudolph V, Nguyen AV, Xu ZP (2014) Preparation and characterisation of manganese and iron compounds as potential control-release foliar fertilisers. *Biointerface Research in Applied Chemistry*, 43:746-753
30. Li X, **Huang L<sup>#</sup>**, Bond PL, Lu Y, Vink S (2014) Bacterial diversity in response to direct revegetation in the Pb–Zn–Cu tailings under subtropical and semi-arid conditions. *Ecological Engineering*, 68: 233-240. *IF* 2.58
31. Li X, You F, **Huang L**, Strounina E, Edraki M (2013) Dynamics in leachate chemistry of Cu-Au tailings in response to biochar and woodchip amendments: a column leaching study. *Environmental Sciences Europe*, 25(1):32. *IF* 0.62
32. Vu TD, **Huang L<sup>#</sup>**, Nguyen VA, Du Y, Xu ZP, Hampton AM, Li P, Rudolph V (2013) Quantitative methods for estimating foliar uptake of zinc from suspension-based Zn chemicals. *Journal of Plant Nutrition and Soil Science*, 176: 764-775. *IF* 1.46
33. **Huang L**, Baumgartl T, Mulligan D (2012) Is rhizosphere remediation sufficient for sustainable revegetation of mine tailings? *Annals of Botany*, 110: 223-238. *IF* 3.65
34. Li P, Xu ZP, Hampton MA, Vu DT, **Huang L**, et al. (2012) Control preparation of zinc hydroxide nitrate nanocrystals and examination of the chemical and structural stability. *The Journal of Physical Chemistry C* 116: 10325-10332. *IF* 4.77
35. Hampton MA; Nguyen T AH, Nguyen A V, Xu ZP, **Huang L**, Rudolph V (2012) Influence of surface orientation on the organization of nanoparticles in drying nanofluid droplets. *Journal of colloid and interface science*, 377(1): 456-462. *IF* 3.37

36. Nguyen T AH, Nguyen A V, Hampton M A, Xu Z P, **Huang L**, Rudolph V (2012) Theoretical and experimental analysis of droplet evaporation on solid surfaces. *Chemical Engineering Science*, 69, 522-529. *IF 2.34*
37. Lu Y, Yin W, **Huang L**, Zhang G, Zhao Y (2011) Assessment of bioaccessibility and exposure risk of arsenic and lead in urban soils of Guangzhou City, China. *Environmental Geochemistry and Health*, 33, 93-102. *IF 2.57*
38. Kuang Y, Sun F, Wen D, Xu Z, **Huang L**, Li J (2011) Nitrogen deposition influences nitrogen isotope composition in soil and needles of *Pinus massoniana* forests along an urban-rural gradient in the Pearl River Delta of south China. *Journal of Soils and Sediments*, 11(4), 589-595. *IF 2.14*
39. Prom-U-Thai C, **Huang L**, Cakmak I, Rerkasem B (2011) Simultaneous fortification of iron and zinc in parboiled rice kernel. *Science Asia*, 37 4: 296-302.
40. Prom-u-thai C, Rerkasem B, Fukai S, **Huang L** (2010) Key factors affecting Fe density in Fe-fortified parboiled rice: parboiling conditions, storage duration, external Fe loading rate and genotypic differences. *Food Chemistry*, 123, 628-634. *IF 3.39*
41. Kuang YW, Wen DZ, Li J, Sun FF, Hou E Q, Zhou G Y, Zhang DQ, **Huang L** (2010) Homogeneity of  $\delta^{15}\text{N}$  in needles of Masson pin (*Pinus massoniana* L.) was altered by air pollution. *Environmental Pollution*, 158: 1963-1967. *IF 4.14*
42. Prom-u-thai C, Rerkasem B, Cakmak I, **Huang L** (2010) Zinc fortification of whole rice grain through parboiling process. *Food Chemistry*, 120, 858-863. *IF 3.39*
43. Prom-u-thai C, Rerkasem B, Fukai S, **Huang L** (2009) Iron fortification and parboiled rice quality: appearance, cooking quality and sensory attributes. *Journal of the Science of Food and Agriculture*, 89: 2565-2571. *IF 1.71*
44. Prom-u-thai C, Glahn R P, Cheng Z, Fukai S, Rerkasem B, **Huang L** (2009) The bioavailability of iron fortified in whole grain parboiled rice. *Food Chemistry*, 112: 982-986. *IF 3.39*
45. Mulyati, Bell RW, **Huang L** (2009) Root pruning and transplanting increase zinc requirements of canola (*Brassica napus*). *Plant and Soil*, 314: 11-24. *IF 2.95*
46. Zhou Z, Xu D, Liang K, **Huang L**, Qiu Z (2009) Effects of calcium ions and pH values on the growth and nutrient uptake of teak (*Tectona grandis*) tube seedlings. *Journal of Central South University of Forestry & Technology*, 3:2.
47. Prom-u-thai C, Fukai S, Godwin ID, Rerkasem B, **Huang L** (2008) Iron-fortified parboiled rice - a novel solution to high iron density in rice-based diets. *Food Chemistry*, 110: 390-398. *IF 3.39*
48. Prom-u-thai C, **Huang L**, Rerkasem B, Thomson G, Kuo J, Saunders M, Dell B. (2008) Distribution of protein bodies and phytate-rich inclusions in grain tissues of low and high iron rice genotypes. *Cereal Chemistry*, 85: 257-265. *IF 1.23*
49. **Huang L**, Bell RW, Dell B (2008) Evidence of phloem boron transport in response to interrupted boron supply in white lupin (*Lupinus albus* L. cv. Kiev Mutant) at the reproductive stage. *Journal of Experimental Botany*, 59: 575-583. *IF 5.53*
50. Prom-u-thai C, Sanchai C, Rerkasem B, Jamjod S, Fukai S, Godwin ID, **Huang L** (2007) Grain morphology variability and its effect to degree of milling and Fe loss in rice. *Cereal Chemistry*, 84: 384-388. *IF 1.23*
51. Prom-u-thai C, Fukai S, Godwin I, **Huang L** (2007) Genotypic variation of iron partitioning in rice grain. *Journal of the Science of Food and Agriculture* 87: 2049-2054. *IF 1.71*
52. Prom-u-thai C, **Huang L**, Glahn R P, Welch R M, Fukai S, Rerkasem B (2006) Iron (Fe) bioavailability and the distribution of anti-Fe nutrition biochemicals in the unpolished, polished grain and bran fraction of five rice genotypes. *Journal of the Science of Food and Agriculture*, 86: 1209-1215. *IF 1.71*



53. **Huang L**, Bell RW, Dell B, Ye ZQ (2005) Boron nutrition and chilling tolerance of warm climate crop species. *Annals of Botany*, 96: 755-767. *IF3.65*
54. Nachiangmai D, Dell B, Bell R, **Huang L**, Rerkasem B (2004) Enhanced boron transport into the ear of wheat as a mechanism for boron efficiency. *Plant and Soil*, 264: 141-147.
55. **Huang LB**, Bell, RW, Woodward J (2004) Rapid nitric acid digestion of plant material with an open-vessel microwave system. *Communications in Soil Science & Plant Analysis*, 35: 427-440.
56. Ye ZQ, **Huang LB**, Bell RW, Dell B (2003) Low root zone temperature favours shoot B partitioning into young leaves of oilseed rape (*Brassica napus* L. cv Hyola 42). *Physiologia Plantarum*, 118: 213-220.
57. Sakya AT, Dell B, **Huang L** (2002) Boron requirements for *Eucalyptus globulus* seedlings. *Plant and Soil*, 246: 87-95.
58. Xu JM, Wang K, Bell RW, Yang YA, **Huang LB** (2001) Soil boron fractions and their relationship to soil properties. *Soil Science Society of American Journal*, 65: 133-138.
59. **Huang L**, Bell RW, Dell B (2001) Boron supply into wheat (*Triticum aestivum* L. cv. Wilgoyne) ears whilst still enclosed within leaf sheaths. *Journal of Experimental Botany*, 52:1731-1738.
60. Ye ZQ, Bell RW, Dell B, **Huang L** (2000) Response of sunflower to boron supply at low root zone temperature. *Communications in Soil Science & Plant Analysis*, 31: 2379-2392.
61. **Huang L**, Pant J, Dell B, Bell RW (2000) Effects of boron deficiency on anther development and floret fertility in wheat (*Triticum aestivum* L. cv. Wilgoyne). *Annals of Botany*, 85: 493-500.
62. Gheradi MJ, Dell B, **Huang L** (1999) Functional copper requirement for catechol oxidase activity in plantation *Eucalyptus* species. *Plant and Soil*, 210: 75-81.
63. **Huang L**, Bell RW, Dell B (1999) Factors controlling equilibrium boron concentration in a B-buffered solution culture. *Plant Soil*, 208: 233-241.
64. **Huang L**, Bell RW, Dell B (1999) Estimating boron requirements for sunflower growth with a B-buffered solution culture system. *Communications in Soil Science Plant Analysis*, 31: 2111-2123.
65. Wei Y, Bell RW, Yang Y, Ye Z, Wang K, **Huang L** (1998) Prognosis of boron deficiency in oilseed rape (*Brassica napus*) by plant analysis. *Australian Journal of Agricultural Research*, 49: 867-874.
66. Dell B, **Huang L** (1997) Physiological responses of plants to boron. *Plant and Soil*, 193: 103-120.
67. Asad A, Bell RW, Dell B, **Huang L** (1997) External boron requirements of canola in boron buffered solution culture system. *Annals of Botany*, 80: 65-73.
68. Asad A, Bell RW, Dell B, **Huang L** (1996) Development of a boron buffered solution culture system for controlled studies of plant boron nutrition. *Plant and Soil*, 188: 21-32.
69. **Huang L**, Ye Z, Bell RW (1996) The importance of sampling immature leaves for the diagnosis of boron deficiency in oilseed rape (*Brassica napus* cv. Eureka). *Plant and Soil*, 183: 187-198.
70. **Huang L**, Hu D, Bell RW (1996) Diagnosis of zinc deficiency in canola by plant analysis. *Communications in Soil Science Plant Analysis*, 26: 12-18.
71. **Huang L**, Murray F, Yang X (1994) Interaction between mild salinity and sub-lethal SO<sub>2</sub> pollution on wheat *Triticum aestivum* cv. Wilgoyne (Ciano/Gallo). I. Responses of stomatal conductance, photosynthesis, growth and assimilate partitioning. *Agriculture, Ecosystem and Environment*, 48: 163-178.
72. **Huang L**, Murray F, Yang X (1994) Interaction between mild salinity and sublethal SO<sub>2</sub> pollution on wheat *Triticum aestivum* cv. Wilgoyne (Ciano/Gallo). II. Accumulation of sulphur and ions. *Agriculture, Ecosystem and Environment*, 47: 335-351.

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### Refereed Conference Papers

75. Kabas S, **Huang L**, Kopittke, P (2015). Root growth and uptake responses of Australian *Acacia chisholmii* to soluble cobalt and nickel. Poster presentation in Rhizosphere 4 Conference. 21-25 June 2015. Maastricht, Netherlands.
76. **Huang L**, Baumgartl T, Zhou L, Mulligan D (2014) The new paradigm for phytostabilizing mine wastes – Ecologically engineered pedogenesis and functional root zones. Life-of-Mine Conference 2014, AusIMM, 16-18 July. Brisbane, Queensland, Australia.
77. Liu Y J, Zhao L and **Huang L** (2014) Arsenic bioavailability regulated by magnetite in copper tailings: As mobilization into pore water and plant uptake. The 5<sup>th</sup> International Congress on Arsenic in the Environment, 11-16 May. Buenos Aires, Argentina.
78. Edraki M, Huynh T, Baumgartl T, **Huang L**, Andrusiewicz M, Tungpalan K, Tayebi-Khorami M, Wightman E, Palaniandy S, Manlapig E, Evans C, Farrokhpay S, Bradshaw D, Vink S (2013). Designing mine tailings through collaborative research. In: Stuart Winchester, Fernando Valenzuela and David Mulligan, *Environline2013*: 3rd International Seminar on Environmental Issues in Mining. Proceedings. 4-6 December. Santiago, Chile.
79. You F, **Huang L**, Dalal R, Mulligan DR (2013). Microbial biomass and activities in response to nutrition and toxicity factors in amended base metal mine tailings (394-1). In General Soil Biology & Biochemistry: I, The International Annual Meetings of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, 3-6 November. Tampa, USA.
80. You F, **Huang L**<sup>#</sup>, Dalal R, Mulligan D (2013) Quantitative measurement of organic carbon in mine wastes: Recovery, limitation and methods comparison. An oral presentation in the 13<sup>th</sup> International Symposium on Soil and Plant Analysis - "New Opportunities for Soil and Plant Testing". 9-12 April. Queenstown, New Zealand.
81. Du Y, Nguyen V A, Xu Z P, Rudolph V, **Huang L**<sup>#</sup> (2013) Comparative mobility of foliar applied Zn from zinc hydroxide nitrate crystals (ZnHNC) and Zn nitrate in tomato plants. Proceedings of the International Plant Nutrition Colloquium XVII. 19-22 August. Istanbul, Turkey.
82. **Huang L**, Baumgartl T, Edraki M, Mulligan D (2012). Sustainable phytostabilisation of mine tailings – a critical analysis of system requirements and approaches. Life-of-Mine 2012: Conference Proceedings. Life of Mine Conference (AusIMM), 10-12 July. Brisbane, Australia pp. 105-113.
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84. Li P, Xu Z P, Hampton M A, Vu D T, **Huang L**, Nguyen A, Rudolph V (2011) Characteristics of synthesized zinc-containing crystals for controlled zinc release and foliar uptake. Australian Chemical Engineering Conference (Chemeca 2010). 26-29 September. Adelaide, Australia.

85. **Huang L**, Baumgartl T, Mulligan D (2011) Organic matter amendment in copper mine tailings improving primary physical structure, water storage and native grass growth. *Environme* 2011, 2<sup>nd</sup> International Seminar on Environmental Issues in the Mining Industry. 1-Aug. Gecamin
86. **Huang L**, Vu D, Nuyen A, Du Y, Xu ZP, Rudolf V (2011) A rapid leaf washing method for accurate analysis of trace metals in leaves. *In* Paul Milham & Marcia Lambert: *The Environment – The Future*, Proceedings 2010 ASPAC Conference. 29 November – 1 December 2010, Canberra, pp. 20.
87. Nguyen TAH, Nguyen AV, Hampton MA, Xu ZP, **Huang L**, Rudolph V (2010) Theoretical and experimental analysis of droplet evaporation on solid surfaces, Australian Chemical Engineering Conference (Chemeca 2010). 26-29 September. Adelaide, Australia.
88. Prom-u-thai C, **Huang L**, Fukai S, Rerkasem B (2009). Iron fortification in parboiled rice – a rapid and effective tool for delivering Fe nutrition to rice consumers. *The Proceedings of the International Plant Nutrition Colloquium XVI*. UC Davis: Department of Plant Sciences, UC Davis.
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90. Paytas M, Yeates S, Fukai S, **Huang L** (2008). Effect of early moisture deficit on growth, development and yield in high retention Bt cotton. *In*: M. Unkovich, *Global Issues, Paddock Action: Proceedings of the 14<sup>th</sup> Australian Society of Agronomy Conference*. 14<sup>th</sup> Australian Society of Agronomy Conference. 21-25 September 2008. Adelaide, Australia.
91. Goldbach HE, **Huang L**, Wimmer MA (2007) Boron functions in plants and animals: recent advances in boron research and open questions. Xu et al., *Advances in Plant and Animal Boron Nutrition*, Proceedings of the 3<sup>rd</sup> International Symposium on All Aspects of Plant and Animal Boron Nutrition. Springer, Dordrecht, The Netherlands, pp. 3
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- 97 **Huang L**, Bell RW and Hu D (1995) Diagnosis of zinc deficiency in canola plants (*Brassica napus* cv. Eureka) by plant analysis. Proceedings of the 9<sup>th</sup> International Rapeseed Congress - Rapeseed Today and Tomorrow", 4-7 July. Cambridge, UK. vol. 1, p. 314-316.

#### Other (Patent and industry report)

- 98 **Huang L**, Nguyen AV, Rudolph V, Xu G (2015) Foliar fertilizer US 20150266786. In. (Google Patents). (equal contribution)
- 99 **Huang L**, Baumgartl T, Li X, Nguyen T, You F, Dorjsuren M, Yuan M (2015) An Examination of Tailings Revegetation Options and Strategies at Mt Isa Phase II- Evaluation of Amendment Options for Reconstructing a Root Zone in Base Metal Mine Tailings for Supporting Open-shrubland Ecosystems Root Zone: *Reconstruction Requirements and Field Model*. Sustainable Minerals Institute, The University of Queensland.
- 100 **Huang L**, Baumgartl T, Mulligan D (2012) An examination of options and strategies for tailings revegetation at Mt Isa and Ernest Henry Mines - A final report (Phase I). Sustainable Minerals Institute, The University of Queensland.
- 101 **Huang L**, Mulligan D (2010) Revegetation of base metal mine tailings: past lessons and potential options. *Brisbane: The University of Queensland*.

#### CONFERENCE PRESENTATIONS

##### Invited keynote (unless indicated)

1. **Huang L (2017) Microbial Bioweathering of Metal Mine Tailings:** Molecular Mechanisms and Application in Ecological Rehabilitation, *GeoTrop 2017 – 8<sup>th</sup> International Conference on Geochemistry in the Topics & Sub-tropics*, 9-12 December, 2017. Peking University, Shenzhen, China.
2. **Huang L. (2017)** Microbial roles in the initiation of technosol formation from mine tailings. *23<sup>rd</sup> ISEB - International Symposium on Environmental Biogeochemistry*, 25-29 September, 2017. Cairns, Australia.
3. **Huang L (2017) Ecological Rehabilitation of Metal Mine Tailings – Current Pitfalls and Emerging Innovations.** 4th International Conference on Pollution Ecology, *Ecology Science Society of China*, Changsha, China, August 24-26, 2017
4. **Huang L (2015)** Biogeochemistry of technosol development in sulfidic tailings for sustainable phytostabilization. The International Conference on Risk Assessment and Management of Contaminated Site, 26-28 August. Hannam University.
5. **Huang L (2015)** The hidden biogeochemical processes of heavy metal mobilization in Cu-Pb-Zn Tailings amended with organic matter. Korean KSSS (<http://www.kswwww.or.kr/>): 26-28 August.
6. **Huang L (2015)** Integrated technology and process to rehabilitate tailings landscape with native plant communities at base metal mines”. Australian Mine Rehabilitation.18-20 August. Adelaide, Australia.
7. **Huang L (2014)** The international conference contaminated land, ecological assessment and remediation (CLEAR2014), October 5-8 2014, Chuncheon, Korea, (<http://www.clear2014.org/index2.asp>)
8. **Huang L (2013)** Soil formation and development in mined land under rehabilitation: Linkages between processes and trajectories. Australian Mine Rehabilitation 17-19 August. Adelaide, Australia. (<http://www.youtube.com/watch?v=FfhpE0570JA>).
9. **Huang L (2012)** Phytostabilization of mine wastes. CLEAR2012, 4-8 November. LinAn, China.

##### Oral presentations

1. **Huang L (2017)** Microbial roles in the initiation of technosol formation in mine tailings. 23rd International Symposium on Environmental Biogeochemistry, Cairns, 24-29 September 2017.
2. **Huang L (2014)** Risks of metals and metalloids in subsistence farming systems peripheral to metal mines and agronomic interventions. In the symposium of IDS 13. Integrated Management Strategies for As and Cd in Rice Paddy Environments, the 20<sup>th</sup> World Congress of Soil Science, 8-13 June 8-13. Cheju, Korea.
3. **Huang L, Du Y (2012)** Nano-crystal foliar Zn, Cu, Mn, Fe fertilisers – a cutting edge technology for prolonged supply and uptake at leaf surfaces. International Workshop on Modifying Plant-Soil Interactions to Enhance Food Security, March 25-27. Beijing, China (China Agricultural University, James Hutton Institute, Lancaster University, UK).
4. **Huang L, Baumgartl T, Mulligan D (2012)** Is rhizosphere remediation sufficient for sustainable revegetation of mine tailings? Rhizosphere 3 – International Conference, 25-30 September. Perth, Australia.
5. **Huang L, Baumgartl T, Mulligan D (2011)**. System requirements for reconstructing root zones for sustainable revegetation of mine tailings. In: Nichols O, Vikuckis N, eds. Australian Mine Rehabilitation 2011. Adelaide, South Australia: JKTech, SMI, 303 – 329.
6. Nguyen TAH, Nguyen AV, Hampton MA, Xu ZP, **Huang L**, Rudolph V (2010), Theoretical and experimental analysis of droplet evaporation on solid surfaces, Australian Chemical Engineering Conference (Chemeca 2010), Adelaide, Australia, 26-29 September.
7. **Huang L (2009)** Fe-fortification of parboiled rice: An novel solution to Fe deficiency anaemia. A meeting on global alliance for micronutrient fortification in rice. December 2009. Sydney, Australia.
8. **Huang L, Bell R, Dell B (2009)**. Exploring the physiological basis for high reproduction sensitivity to boron deficiency in plants. The Proceedings of the International Plant Nutrition Colloquium XVI, California, USA.
9. **Huang L, Dell B, Liao H, Yan X (2009)** Boron deficiency in acid soils and its role in root phosphorus acquisition strategy of P-efficient genotypes. The 7<sup>th</sup> International symposium on plant-soil interactions at low pH. 17-21 May. Guangzhou, China
10. **Huang L, Bell R, Dell B (2005)** Boron modulation of low temperature tolerance in leaf cells. The 3<sup>rd</sup> International Symposium of B in All Aspects of Plant and Animal Nutrition. 10-13 September. Wuhan, China.
11. Goldbach HE, **Huang L**, Wimmer MA (2005) Boron functions in plants and animals: recent advances in boron research and open questions. The 3<sup>rd</sup> international symposium of B in All Aspects of Plant and Animal Nutrition. 10-13 September. Wuhan, China.
12. **Huang L, Ye Z, Bell RW, Dell B (2004)**. Boron Nutrition and Chilling Tolerance. The International Symposium on Trace Elements and Health – Trace Elements in Agroecosystem and Health, 10-13 October. Hangzhou, China.
13. **Huang L, Bell RW, Hu D (1995)** Diagnosis of zinc deficiency in canola plants (*Brassica napus* cv. Eureka) by plant analysis. Proceedings of the Ninth International Rapeseed Congress - Rapeseed Today and Tomorrow", 4-7 July. Cambridge, UK., vol. 1, p. 314 - 316.
14. **Huang L, Pant J, Bell RW, Dell B, Deane K (1996)**. Effects of boron deficiency and low temperature on wheat sterility. Sterility in wheat in subtropical Asia: Extent, causes and solutions - A workshop 18-21 September. Lumle Agricultural Research Centre, Pokhara, Nepal.

#### Poster presentations

15. Kabas, S., **Huang, L.**, Kopittke, P., 2015. Root growth and uptake responses of Australian *Acacia chisholmii* to soluble cobalt and nickel. Rhizosphere 4 Conference. 21-25 June. Maastricht, Netherlands.
16. Du Y, **Huang L**, Vu DT, Li P, Xu ZP, Nuyen A, Rudolph V, Mulligan D (2012) Prolonged zinc uptake controlled by Zn nanocrystals at foliar surface. International Conference of Plant Growth, Nutrition & Environment Interactions, 18-21 February. Vienna, Austria.
17. Dorjsuren M, **Huang L**, Li X, Mulligan D (2011) Effects of organic matter on the transformation of phosphorus in base metal mine tailings. At: Rhizosphere 3 – International Conference. 25-30 September. Perth, Australia.
18. **Huang L**, Vu DT, Nuyen A, Du Y, Xu ZP, Rudolf V (2010). A rapid leaf washing method for accurate analysis of trace metals in leaves. Australasian Soil & Plant Analysis Council Conference – The Environment – The future. 29 Nov-1 Dec 2010. CSIRO, Canberra, Australia.
19. Prom-u-thai C, **Huang L**, Fukai S, and Rerkasem B (2005) Effects of organic compounds in rice grain on iron bioavailability. In C. J. Li *et al* (Eds), Plant Nutrition for Food Security, Human Health and Environmental Protection. Tsinghua University Press, Beijing, pp. 434-435.
20. Mulyati, Bell RW, **Huang L** (2005) Seedbed zinc nutrition affects the early growth of transplanted oilseed rape (*Brassica napus* L.) in chelate-buffered nutrient solution. In CJ Li *et al* (Eds), Plant Nutrition for Food Security, Human Health and Environmental Protection. Tsinghua University Press, Beijing, pp. 898-899.

## REFEREES

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