

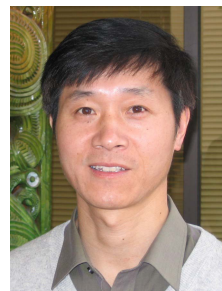
ESPR Subject Area 5 'Environmental Microbiology, (Bio)Technologies, Health Issues'

Hailong Wang (Principal Subject Editor for Area 5)

Subject Editor for Area 5.1: Microbial studies and technologies supporting waste disposal, management, and remediation of municipal and industrial hazardous wastes

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Profile

Dr. Hailong Wang is a senior scientist in environmental soil chemistry. He works in land application of municipal and industrial residuals and its impact on the ecosystems.

Professional Experience

- 2006–present Adjunct Professor, Hainan University, China
- 2005–present Senior Scientist, Ensis, New Zealand
- 1996–2005 Scientist/Senior Scientist, New Zealand Forest Research Institute, New Zealand
- 1985–1992 Associate Lecturer/Lecturer, Zhejiang University, China

Academic Qualifications

- 1996 Ph.D. in Soil Science, Massey University, New Zealand
- 1985 M.Sc. in Soil Science & Plant Nutrition, Zhejiang University, China
- 1982 B.Sc. in Soil Science & Agrochemistry, Zhejiang University, China

Memberships, Advisory Boards, Major Committees

- Member of the Technical Committee, New Zealand Land Treatment Collective
- Member of Job Evaluation Committee, Scion Group
- Member of the New Zealand Society of Soil Science; New Zealand Water and Waste Association; Soil Science Society of America

Professional Activities

Dr. Hailong Wang's research program focuses mainly on land application of organic residuals and their impacts on the ecosystems, and nutrient management in relation to surface water eutrophication. Dr. Wang leads a number of research tasks involving beneficial use of municipal and industrial wastes through land application. He looks into the fate and mobility of waste-derived nutrients and contaminants in the receiving environment. Dr. Wang also investigates soil carbon sequestration in relation to land application of organic residuals and land-use change.

In addition to research, Dr. Wang is actively involved in supervision of Ph.D. and M.S. students, and is regularly invited to examine postgraduate students' theses and to review scientific articles for >10 international journals. As an editor and author, he was intensively involved in the development of New Zealand guidelines for sewage effluent application to land. Currently he leads a project to develop NZ guidelines for best practices in vegetable processing waste management. He has been invited to present speech and lectures at a number of international conferences and universities, and hosted international visiting scientists. He coordinates scientific programs for the New Zealand Land

Treatment Collective annual conferences, and provides consulting services to the central and local governments and industry.

Areas of interest

- soil-water-plant relationship
- soil/water contamination
- soil and environmental research
- land application, biosolids, sewage, other wastes
- isotope geochemistry

The challenges I have identified in and for Area 5, including Area 5.1 where I am involved as Subject Editor

- Understanding the relationship between land applied wastes and soil greenhouse gas emission;
- Understanding the effects of engineered nanomaterial-derived wastes on the environment
- Developing new technologies to improve soil C sequestration using waste materials
- Developing novel and low cost technologies in wastewater treatment
- Developing effective technologies to restore disturbed ecosystems

The activities I plan to take within Area 5

- New technologies in beneficial use of waste materials
- New technologies for minimising environmental footprint of wastes
- Environmental effects of emerging contaminants
- Environmental fate of wastes derived from new industries
- Efficiency of wastewater treatment systems

My Activities as Submission Editor in ESPR

As Submission Editor in the ESS (Electronic Submission System: <http://www.scientificjournals.com/sj/all/ESS>), I have successfully guided two papers through the peer-review process to the publication in OnlineFirst. They appear in this issue (Cai & Sun 2007, Pavlovic et al. 2007).

My activities as Author in ESPR

So far, I have co-authored one paper for ESPR (Su et al. 2007) which is published in this issue.

References

- Cai H, Sun Y (2007): Management of Marine Cage Aquaculture. Environmental Carrying Capacity Method Based on Dry Feed Conversion Rate. *Env Sci Pollut Res* 14 (7) 463–469
- Pavlovic J, Stopic S, Friedrich B, Kamberovic Z (2007): Selective Removal of Heavy Metals from Metal-Bearing Wastewaters in Cascade Line Reactor. *Env Sci Pollut Res* 14 (7) 518–522
- Su J, Wang H, Kimberley MO, Beecroft K, Magesan GN, Hu C (2007): Fractionation and Mobility of Phosphorus in a Sandy Forest Soil Amended with Biosolids. *Env Sci Pollut Res* 14 (7) 523–529