

WENJIE LIAO, Dr.

Work address: UMR INRA/Agrocampus 1069 SAS, 65 rue de St-Brieuc, 35042 Rennes, France

Office phone: +33 (0)2 23 48 52 31, E-mail: Wenjie.Liao@rennes.inra.fr

Personal page: <http://www.liaowenjie.com>

EDUCATION

- Ph.D., Environmental Science, *Universiteit Leiden*, the Netherlands, 2012
- M.Sc., Environmental Engineering, *Sichuan University*, China, 2007
- B.Sc., Environmental Engineering, *Sichuan University*, China & *University of Washington*, U.S.A., 2004

POSITIONS

- **AgreenSkills Fellow**, *Institut National de la Recherche Agronomique*, Rennes, France, since 04/2013
Mentor: Dr. H.M.G. van der Werf
- **Guest researcher**, *Universiteit Leiden*, Leiden, the Netherlands, 07/2012- 09/2013
- **Ph.D. Researcher**, *Universiteit Leiden*, Leiden, the Netherlands, 11/2007-06/2012
Supervisors: Prof. dr. S.M. Verduyn Lunel, Dr. G. Huppes, and Dr. R. Heijungs
- **Teaching/Research Assistant** (part time), *Sichuan University*, Chengdu, China, 09/2004-07/2007

RESEARCH INTERESTS

- Knowledge synergy: industrial ecology, agro-ecology, earth system science, etc.
- Method integration: life cycle assessment, thermodynamic analysis, and dynamic simulation modelling
- Sustainability assessment: energy conversion, natural resource utilisation, and agri-food production

ARTICLES & DISSERTATIONS

- **Liao W** (2012) *A thermodynamic perspective on technologies in the Anthropocene: Analyzing environmental sustainability*. Ph.D. thesis, *Universiteit Leiden*, Leiden, the Netherlands, ISBN: 978-94-6203-070-1
- **Liao W**, Heijungs R, Huppes G (2012) Thermodynamic resource indicators: A case study on the titania produced in Panzhihua city, southwest China. *The International Journal of Life Cycle Assessment* 17(8): 951-961.
- **Liao W**, Heijungs R, Huppes G (2012) Thermodynamic analysis of human-environmental systems: A review focused on industrial ecology. *Ecological Modelling* 228: 76-88.
- **Liao W**, Heijungs R, Huppes G (2012) Natural resource demand of global biofuels in the Anthropocene: A review. *Renewable and Sustainable Energy Reviews* 16(1): 996-1003.
- **Liao W**, Heijungs R, Huppes G (2011) Is bioethanol a sustainable energy source? An energy-, exergy-, and energy-based thermodynamic system analysis. *Renewable Energy* 36(12): 3479-3487.
- **Liao W** (2007) *Analysis on regional materials industry based on Industrial Ecology*. M.Sc. thesis, *Sichuan University*, Chengdu, China (in Chinese with English abstract)
- **Liao W**, Jiang W, Wang H, Wang C, Zhang X (2007) Environmental load analysis of titanium industrial chain. *Huanjing Kexue yu Jishu* 30(144): 50-52;70 (in Chinese)
- **Liao W**, Jiang W, Wang C, Zhang X (2007) Eco-efficiency analysis of titanium white production. *Progress of Titanium Industry* 24(2): 41-44 (in Chinese)
- Zhang X, Jiang W, **Liao W** (2007) Study on the design of eco-industrial park in resource-based city: Case study of Panzhihua city. *Ecological Economy* 1: 48-51 (in Chinese)
- **Liao W**, Jiang W, Zhang X (2006) Research of industrial sustainable development based on industrial ecology. *China Population Resources and Environment* 16(6): 53-56 (in Chinese)
- **Liao W**, Jiang W (2006) Sustainable development analysis on ecological-economic system in resource-based cities. *Journal of Ecotechnology Research* 12(1-2): 159-162
- Wei N, Jiang W, **Liao W** (2005) Analysis on reuse of college dormitory washing water. *Resource Development and Market* 21(5): 432-434 (in Chinese)
- **Liao W** (2004) *Study on microbiological method of flue gas desulphurisation*. B.Sc. thesis, *Sichuan University*, Chengdu, China (in Chinese with English abstract)