

## Liste de publications de Wouter Achten

### 5.1.3. - Parties d'ouvrages collectifs

#### 2019

1. Negussie, A., Norgrove, L., **Achten, W.**, Nacro, S., Kenis, M., Hermy, M., & Muys, B. (2019). Lessons on Alien Biofuel Crops Invasiveness Risk Assessment: Based on Practical Experiences from *Jatropha curcas* L. in Southern and Western Africa In K. M. Hadgu, B. Bishaw, I. Miyuki, E. Birhane, A. Negussie, C. M. Davis, & B. Bernart (Eds.), *Climate-smart Agriculture: Enhancing Resilient Agricultural Systems, Landscapes, and Livelihoods in Ethiopia and Beyond* (pp. 243-251). Nairobi, Kenya: World Agroforestry (ICRAF).

#### 2014

2. Muys, B., Masiero, M., & **Achten, W.** (2014). Sustainability and land use impact of using forests as bioenergy resource In P. Pelkonen, M. Mustonen, A. Asikainen, G. Egnell, P. Kant, S. Leduc, & D. Pettenella (Eds.), *Forest Bioenergy for Europe: What Science Can Tell Us* (pp. 90-97). Joensuu, Finland.
3. Muys, B., Masiero, M., & **Achten, W.** (2014). Sustainability at source – Responsibilities beyond domestic forests In P. Pelkonen, M. Mustonen, A. Asikainen, G. Egnell, P. Kant, S. Leduc, & D. Pettenella (Eds.), *Forest Bioenergy for Europe: What Science Can Tell Us* (pp. 98-103). Joensuu, Finland.

#### 2012

4. German, L., **Achten, W.**, & Guariguata, M. (2012). Environmental Impacts In M. Kugelman & S. Levenstain (Eds.), *The Global Farms Race – Land Grabs, Agricultural Investment, and the scramble for food security* (1 ed., pp. 100-129). Washington: Island press.

#### 2010

5. **Achten, W.**, Akinnifesi, F., Maes, W., Trabucco, A., Aerts, R., Mathijs, E., Reubens, B., Singh, V., Verchot, L., & Muys, B. (2010). *Jatropha integrated agroforestry systems – biodiesel pathways towards sustainable rural development* In C. Ponterria & C. Ferrra (Eds.), *Jatropha curcas as a premier biofuel: cost, growing and management* (1 ed., pp. 85-102). Hauppauge, NY, USA: Nova Science Publishers.

### 5.1.4. et 5.1.5. - Articles dans des revues scientifiques avec comité de lecture

#### 2019

1. Zeller, V., Towa, E., Degrez, M., & **Achten, W.** (2019). Urban waste flows and their potential for a circular economy model at city-region level *Waste management*, 83, 83-94. doi:10.1016/j.wasman.2018.10.034

#### 2018

2. Zeller, V., Towa, E., Degrez, M., & **Achten, W.** (2018). Integration of Waste Supply and Use Data into Regional Footprints: Case Study on the Generation and Use of Waste

from Consumption and Production Activities in Brussels *Procedia CIRP*, 68, 100–105.  
doi:10.1016/j.procir.2017.11.116

3. Sureau, S., Mazijn, B. B., Russo-Garrido, S., & **Achten, W.** (2018). Social Life-cycle Assessment Frameworks: a review of criteria and indicators proposed to assess social and socioeconomic impacts *The international journal of life cycle assessment*, 23(4), 904–920. doi:10.1007/s11367-017-1336-5
4. Roffeis, M., Wakefield, M. E., Almeida, J., Valada, T. R. A., Devic, E., Koné, N., Kenis, M., Nacambo, S., Fitches, E., Koko, G. K., Mathijs, E., **Achten, W.**, & Muys, B. (2018). Life cycle cost assessment of insect based feed production in West Africa *Journal of cleaner production*, 199, 792-806. doi:10.1016/j.jclepro.2018.07.179
5. Cardellini, G., Alves Valada, T., Cornillier, C., Vial, E., Dragoi, M., Goudiaby, V., Mues, V., Lasserre, B., Gruchala, A., Rorstad, P. K., Neumann, M., Svoboda, M., Sirgmets, R., Näsärö, O.-P., Mohren, F., **Achten, W.**, Vranken, L., & Muys, B. (2018). EFO-LCI: A new life cycle inventory database of forestry operations in Europe *Environmental management*, 61(6), 1031–1047. doi:10.1007/s00267-018-1024-7
6. Timmermans, B. R., & **Achten, W.** (2018). From value added tax to a damage and value added tax partially based on life cycle assessment: principles and feasibility *The international journal of life cycle assessment*, 23(11), 2217-2247.

#### 2017

7. Roffeis, M., Almeida, J., Wakefield, M., Alves Valada, T., Devic, E., Koné, N., Nacambo, S., Kenis, M., Fitches, E., Koko, G. K., Mathijs, E., **Achten, W.**, & Muys, B. (2017). Life Cycle Inventory analysis of prospective insect based feed production in West Africa *Sustainability*, 9, 1697. doi:10.3390/su9101697
8. Bhochhibhoya, S., Pizzol, M., **Achten, W.**, Maskey, R. K., Zanetti, M., & Cavalli, R. (2017). Comparative Life Cycle Assessment and Life Cycle Costing of Lodging in the Himalaya *The international journal of life cycle assessment*, 22(11), 1851-1863. doi:10.1007/s11367-016-1212-8

#### 2016

9. Almeida, J., De Meyer, A., Cattrysse, D., Van Orshoven, J., **Achten, W.**, & Muys, B. (2016, juillet). Spatial optimization of Jatropha based electricity value chains including the effect of emissions from land use change *Biomass & bioenergy*, 90, 218-229. doi:10.1016/j.biombioe.2016.04.010
10. **Achten, W.**, & Van Acker, K. (2016, février). EU-average impacts of wheat production: a meta-analysis of Life Cycle Assessments *Journal of industrial ecology*, 20(1), 132-144. doi:10.1111/jiec.12278
11. Degerickx, J., Almeida, J., Moonen, P., Vervoort, L., Muys, B., & **Achten, W.** (2016). Impact of land use change to Jatropha bioenergy plantations on biomass and soil carbon stocks: a field study in Mali *Global change biology. Bioenergy*, 8(2), 443-455. doi:10.1111/gcbb.12288
12. Neumann, M., Moreno, A., Mues, V., Härkönen, S., Mura, M., Bouriaud, O., Lang, M., **Achten, W.**, Thivolle-Cazat, A., Bronisz, K., Merganic, J., Decuyper, M., Alberdi, I., Astrup,

- R., Mohren, F., & Hasenauer, H. (2016). Comparison of carbon estimation methods for European forests *Forest ecology and management*, 361, 397-420. doi:10.1016/j.foreco.2015.11.016
13. Schauwbroeck, T., Deckmyn, G., Giot, O., Campioli, M., Van Poucke, C., Verheyen, K., Rugani, B., **Achten, W.**, Verbeeck, H., Dewulf, J., & Muys, B. (2016). Environmental impact assessment and monetary ecosystem service valuation of an ecosystem under different future environmental change and management scenarios; a case study of a Scots pine forest *Journal of environmental management*, 173, 79-94. doi:10.1016/j.jenvman.2016.03.005
  14. Almeida, J., Degerickx, J., **Achten, W.**, & Muys, B. (2016). Greenhouse gas emission timing in life cycle assessment and the global warming potential of perennial energy crops *Carbon management*, 6(5-6), 185-195. doi:10.1080/17583004.2015.1109179
  15. Negussie, A., **Achten, W.**, Norgrove, L., Mekuria, W., Hadgu, K. M., De Both, G., Leroy, B., Hermy, M., & Muys, B. (2016). Initial effects of fertilization and canopy management on flowering, seed and oil yield of *Jatropha curcas* L. in Malawi *Bioenergy Research*, 9(4), 1231-1240. doi:10.1007/s12155-016-9767-6
- 2015**
16. Negussie, A., Nacro, S., **Achten, W.**, Norgrove, L., Kenis, M. J., Hadgu, K. M., Aynekulu, E., Hermy, M., & Muys, B. (2015, juin). Insufficient Evidence of *Jatropha curcas* L. Invasiveness: Experimental Observations in Burkina Faso, West Africa *Bioenergy Research*, 8(2), 570-580. doi:10.1007/s12155-014-9544-3
  17. Negussie, A., Norgrove, L., **Achten, W.**, & Muys, B. (2015, avril). We lack evidence to call *Jatropha* invasive *Biofuels, Bioproducts and Biorefining*, 9(2), 123-124. doi:10.1002/bbb.1548
  18. Negussie, A., Norgrove, L., **Achten, W.**, & Muys, B. (2015, mars). Commentary: We lack evidence to call *Jatropha* invasive *Biofuels, Bioproducts and Biorefining*, 9(2), 123-124. doi:10.1002/bbb.1548
  19. **Achten, W.**, Dillen, K., Trabucco, A., Verbist, B., Messemaker, L., Muys, B., & Mathijs, E. (2015). The economics and greenhouse gas balance of land conversion to *Jatropha*: the case of Tanzania *Global change biology. Bioenergy*, 7, 302-3015. doi:10.1111/gcbb.12160
  20. Negussie, A., **Achten, W.**, Verboven, H., Aerts, R., Sloan, R., Hermy, M., & Muys, B. (2015). Conserving open natural pollination safeguards *Jatropha* oil yield and oil quality *Bioenergy Research*, 8(1), 340-349. doi:10.1007/s12155-014-9518-5
  21. Negussie, A., Nacro, S., **Achten, W.**, Norgrove, L., Kenis, M., Hermy, M., & Muys, B. (2015). Insufficient evidence of *Jatropha curcas* L. invasiveness: experimental observations in Burkina Faso *Bioenergy Research*, 8, 570-580.
  22. Soto, I., **Achten, W.**, Muys, B., & Mathijs, E. (2015). Who benefits from energy policy incentives? The case of *Jatropha* adoption by smallholders in Mexico *Energy policy*, 79, 37-47. doi:10.1016/j.enpol.2014.12.028

23. Roffeis, M., Muys, B., Almeida, J., Mathijs, E., **Achten, W.**, Pastores, B., Velásquez, Y., Martinez-Alier, A., & Rojo, S. (2015). Pig manure treatment with House Fly [*Musca domestica*] rearing – An environmental Life Cycle Assessment *Journal of insects as food and feed*, 1(3), 195 - 214.
24. Negussie, A., Degerickx, J., Norgrove, L., **Achten, W.**, Hadgu, K. M., Aynekulu, E., & Muys, B. (2015). Effects of accession, spacing and pruning management on in-situ leaf litter decomposition of *Jatropha curcas* L. in Zambia *Biomass & bioenergy*, 81(1), 505-513. doi:10.1016/j.biombioe.2015.08.004
25. Almeida, J., Degerickx, J., **Achten, W.**, & Muys, B. (2015). Greenhouse gas emission timing and the global warming potential of perennial energy crops *Carbon management*, 6(5-6), 185-195.

#### 2014

26. Almeida, J., **Achten, W.**, Verbist, B., Heuts, R., Schrevens, E., & Muys, B. (2014, décembre). Carbon and water footprints and energy use of greenhouse tomato production in Northern Italy *Journal of industrial ecology*, 18(6), 898-908. doi:10.1111/jiec.12169
27. Almeida, J., Verbist, A., **Achten, W.**, Maertens, M., & Muys, B. (2014). Sustainability in Development Cooperation: Preliminary Findings on the Carbon Footprint of Development Aid Organizations *Sustainable Development*, 22(349-359). doi:10.1002/sd.1553
28. Negussie, A., **Achten, W.**, Verboven, H., Hermy, M., & Muys, B. (2014). Floral display and effects of natural and artificial pollination on fruiting and seed yield of the tropical biofuel crop *Jatropha curcas* L *Global change biology. Bioenergy*, 6, 210-218.
29. De Schepper, E., Van Passel, S., Lizin, S., **Achten, W.**, & Van Acker, K. (2014). Cost-efficient emission abatement of energy and transportation technologies: Mitigation costs and policy impacts for Belgium *Clean technologies and environmental policy*, 16(6), 1107-1118. doi:10.1007/s10098-014-0713-z
30. **Achten, W.**, Muys, B., Mathijs, E., & Vantomme, P. (2014). Opportunities and constraints of promoting new tree crops - lessons learned from *Jatropha* *Sustainability*, 6(6), 3213-3231. doi:10.3390/su6063213
31. Almeida, J., Moonen, P., Soto, I., **Achten, W.**, & Muys, B. (2014). Effect of yield and farming system in the life cycle assessment of *Jatropha*-based bioenergy in Mali *Energy Sustainable Development*, 23, 258-265. doi:10.1016/j.esd.2014.10.001

#### 2013

32. Negussie, A., **Achten, W.**, Norgrove, L., Hermy, M., & Muys, B. (2013, octobre). Invasiveness risk of biofuel crops using *Jatropha curcas* L. as a model species *Biofuels, Bioproducts and Biorefining*, 7(5), 485-498. doi:10.1002/bbb.1416
33. Deng, Y., **Achten, W.**, Van Acker, K., & Duflou, J. (2013, août). Life cycle assessment of wheat gluten powder and derived packaging film *Biofuels, Bioproducts and Biorefining*, 7(4), 429-458. doi:10.1002/bbb.1406
34. Negussie, A., **Achten, W.**, Aerts, R., Norgrove, L., Sinkala, T., Hermy, M., & Muys, B. (2013). Invasiveness risk of the tropical biofuel crop *Jatropha curcas* L. into adjacent

land use systems: From the rumors to the experimental facts *Global change biology. Bioenergy*, 5(4), 419-430.

35. **Achten, W.**, Almeida, J., & Muys, B. (2013). Carbon footprint of science: More than flying *Ecological indicators*, 34, 352-355.
36. **Achten, W.**, Trabucco, A., Maes, W., Verchot, L., Aerts, R., Mathijs, E., Vantomme, P., Singh, V., & Muys, B. (2013). Global greenhouse gas implications of land conversion to biofuel crop cultivation in arid and semi-arid lands - Lessons learned from *Jatropha Journal of Arid Environments*, 98, 135-145.
37. Negussie, A., **Achten, W.**, Verboven, H., Hermy, M., & Muys, B. (2013). Potential pollinators and floral visitors of an introduced tropical biofuel tree species *Jatropha curcas* L. (euphorbiaceae) in Southern Africa *African crop science journal*, 21(2), 133-141.

#### 2011

38. **Achten, W.**, & Verchot, L. (2011). Implications of biodiesel-induced land-use changes for CO<sub>2</sub> emissions: Case studies in tropical America, Africa, and Southeast Asia *Ecology and Society*, 16(4).
39. Almeida, J., **Achten, W.**, Duarte, M., Mendes, B., & Muys, B. (2011). Benchmarking the environmental performance of the *Jatropha* biodiesel system through a generic life cycle assessment *Environmental Science & Technology (Washington)*, 45(12), 5447-5453.
40. Maes, W., **Achten, W.**, Reubens, B., & Muys, B. (2011). Monitoring stomatal conductance of *Jatropha curcas* seedlings under different levels of water shortage with infrared thermography *Agricultural and Forest Meteorology*, 151(5), 554-564.
41. Reubens, B., **Achten, W.**, Maes, W., Danjon, F., Aerts, R., Poesen, J., & Muys, B. (2011). More than biofuel? *Jatropha curcas* root system symmetry and potential for soil erosion control *Journal of Arid Environments*, 75(2), 201-205.

#### 2010

42. **Achten, W.**, Almeida, J., Fobelets, V., Bolle, E., Mathijs, E., Singh, V., Tewari, D., Verchot, L., & Muys, B. (2010). Life cycle assessment of *Jatropha* biodiesel as transportation fuel in rural India *Applied Energy*, 87(12), 3652-3660.
43. **Achten, W.**, Vandenbempt, P., Almeida, J., Mathijs, E., & Muys, B. (2010). Life cycle assessment of a palm oil system with simultaneous production of biodiesel and cooking oil in Cameroon *Environmental Science & Technology (Washington)*, 44(12), 4809-4815.
44. **Achten, W.**, Maes, W., Reubens, B., Mathijs, E., Singh, V., Verchot, L., & Muys, B. (2010). Biomass production and allocation in *Jatropha curcas* L. seedlings under different levels of drought stress *Biomass & Bioenergy*, 34(5), 667-676.
45. **Achten, W.**, Nielsen, L., Aerts, R., Lengkeek, A., Kj  r, E., Trabucco, A., Hansen, J., Maes, W., Graudal, L., Akinnifesi, F., & Muys, B. (2010). Towards domestication of *Jatropha curcas* *Biofuels*, 1(1), 91-107.

46. **Achten, W.**, Maes, W., Aerts, R., Verchot, L., Trabucco, A., Mathijs, E., Singh, V., & Muys, B. (2010). Jatropha: From global hype to local opportunity *Journal of Arid Environments*, 74(1), 164-165.
47. Trabucco, A., **Achten, W.**, Bowe, C., Aerts, R., Van Orshoven, J., Norgrove, L., & Muys, B. (2010). Global mapping of *Jatropha curcas* yield based on response of fitness to present and future climate *Global change biology. Bioenergy*, 2(3), 139-151.

#### 2009

48. Maes, W., Trabucco, A., **Achten, W.**, & Muys, B. (2009). Climatic growing conditions of *Jatropha curcas* L. *Biomass & Bioenergy*, 33(10), 1481-1485.
49. Maes, W., **Achten, W.**, Reubens, B., Raes, D., Samson, R., & Muys, B. (2009). Plant-water relationships and growth strategies of *Jatropha curcas* L. seedlings under different levels of drought stress *Journal of Arid Environments*, 73(10), 877-884.
50. Maes, W., **Achten, W.**, & Muys, B. (2009). Use of inadequate data and methodological errors lead to an overestimation of the water footprint of *Jatropha curcas* *Proceedings of the National Academy of Sciences of the United States of America*, 106(34), E91.

#### 2008

51. **Achten, W.** (2008). Science journals have been slow to make themselves audible *Nature (London)*, 455(7213), 590.
52. **Achten, W.**, Verchot, L., Franken, Y., Mathijs, E., Singh, V., Aerts, R., & Muys, B. (2008). *Jatropha* bio-diesel production and use *Biomass & Bioenergy*, 32(12), 1063-1084.
53. **Achten, W.**, Dondeyne, S., Mugogo, S., Kafiriti, E., Poesen, J., Deckers, J., & Muys, B. (2008). Gully erosion in South Eastern Tanzania: Spatial distribution and topographic thresholds *Zeitschrift fuer Geomorphologie*, 52(2), 225-235.

#### 2007

54. **Achten, W.**, Mathijs, E., Verchot, L., Singh, V., Aerts, R., & Muys, B. (2007, décembre). *Jatropha* biodiesel fueling sustainability? *Biofuels, Bioproducts and Biorefining*, 1(4), 283-291. doi:10.1002/bbb.39

### 5.1.4. et 5.1.5. - Articles dans des revues scientifiques sans comité de lecture

#### 2016

1. Aerts, R., Dewaelheyns, V., & **Achten, W.** (2016). Potential ecosystem services of urban agriculture: a review *PeerJ preprints*, 4, e2286v1.

### 5.1.7. - Communications publiées lors de congrès ou colloques nationaux et internationaux

#### 2018



1. Pel, B., **Achten, W.**, Khan, A. Z., & Bauler, T. (2018). Reconfiguring which systems?: An interdisciplinary reflection on units of analysis in the Circular Economy Abstract session presented at International Sustainability Transitions Conference(9th: June 11 - 14 2018: Manchester (UK)).
2. Sureau, S., & **Achten, W.** (2018). Including governance and economic aspects to assess and explain social impacts: a methodological proposal for S-LCA *Social LCA - People and Places for Partnership*. CIRAD.

#### 2016

3. Sureau, S., **Achten, W.**, & Mazijn, B. B. (2016). How assessment criteria and indicators are defined and selected in Social LCA: a literature review Abstract session presented at 5th International Social LCA Conference(13-15 juin 2016: Harvard, Cambridge, USA).

#### 2015

4. Roffeis, M., Alves Valada, T., Muys, B., Mathijs, E., & **Achten, W.** (2015). Life cycle sustainability assessment and its application potential in the development of sustainable feed production systems – an ex-ante assessment of insect-based feed production Abstract session presented at AgriFoodLCA(23-24 nov 2015: Melbourne, Australia).

#### 2013

5. De Meyer, A., Almeida, J., **Achten, W.**, Muys, B., & Van Orshoven, J. (2013). Incorporating Life Cycle Impact Assessment in a Mathematical Model to Optimize Strategic Decisions in Biomass-for-Bioenergy Supply Chains Abstract session presented at .
6. Almeida, J., Moonen, P., **Achten, W.**, & Muys, B. (2013). Time Explicit Global Warming Potential of Jatropha Biofuel Production in Mali Abstract session presented at .

#### 2011

7. Muys, B., **Achten, W.**, Verbist, B., Aerts, R., Kint, V., Hermy, M., Poppe, J., Marx, A., Van Orshoven, J., Verheyen, K., De Tavernier, J., Fanta, J., Van Rompaey, A., Vranken, L., Dondeyne, S., Lenaerts, L., & Nabuurs, G.-J. (2011). Conservation and management of forests for sustainable development: where science meets policy Abstract session presented at (Leuven, Belgium).

#### 2010

8. **Achten, W.**, Almeida, J., Vandenbempt, P., Bolle, E., Fobelets, V., Singh, V., Verchot, L., Mathijs, E., & Muys, B. (2010). Life cycle assessments of biodiesels: Jatropha versus Oil palm Abstract session presented at .

#### 2009

9. **Achten, W.**, Mathijs, E., & Muys, B. (2009). Proposing a life cycle land use impact calculation methodology In T. Nemecek & G. Gaardsted (Eds.), *Proceedings of the 6th International Conference on LCA in the Agri-Food Sector: Towards a sustainable management of the Food chain*. Agroscope Reckenholz-Tänikon Research Station.

#### 2007

10. **Achten, W.**, Muys, B., Mathijs, E., Singh, V., & Verchot, L. (2007). Life-cycle assessment of Bio-diesel from *Jatropha curcas* L. energy balance, impact on global warming, land use impact Abstract session presented at .
11. **Achten, W.**, Reubens, B., Maes, W., Mathijs, E., Verchot, L., Singh, V., Poesen, J., & Muys, B. (2007). Root architecture of the promising bio-diesel plant *Jatropha* *Communications in Agricultural and Applied Biological Sciences: Vol. 72*. Ghent University.

### 5.1.8. - Rapports, comptes rendus, notes de lecture et lettres à l'éditeur, working papers

#### 2015

1. Khan, A. Z., **Achten, W.**, Bouland, C., et al. (2015). *Tranformative pathways for healthy and low-carbon European Cities by 2050*.
2. Khan, A. Z., **Achten, W.**, Bouland, C., et al. (2015). *Tranformative pathways for healthy and low-carbon urban metabolisms in European Cities*.

#### 2014

3. Kampelmann, S., **Achten, W.**, Petalios, D., & Bauler, T. (2014). *Decentralised & Ecological Seeds & Farming in the EU*.

#### 2012

4. Vanderheyden, G., Aerts, J., **Achten, W.**, Bachus, K., Duflou, J., Eyckmans, J., Jones, P. T., Haers, J., Motten, B., & Volckaert, F. (2012). *Nulmeting CO2 emissies KU Leuven in het jaar 2010*.

### 5.2.2. - Participations actives à des congrès et colloques internationaux

#### Accepté pour publication

1. Neumann, M., Mues, V., Härkönen, S., Mura, M., Bouriaud, O., Lang, M., **Achten, W.**, Thivolle-Cazat, A., Bronisz, K., Merganicova, K., Decuyper, M., Alberdi, I., Astrup, R., Schadauer, K., & Hasenauer, H. (2015). Comparison of carbon and biomass estimation methods for European forests Abstract session presented at European Geosciences Union General Assembly(12 – 17 April 2015: Vienna, Austria).

#### 2018

2. Lohest, F., Van Mol, J., Sureau, S., Bauler, T., & **Achten, W.** (2018). *COSY-Food: Présentation publique et participative des résultats* Paper session presented at Nos systèmes alimentaires alternatifs sont-ils durables? (05/12/2018: Bruxelles).
3. Timmermans, B., & **Achten, W.** (2018). The use of Life Cycle Assessment to adjust consumption taxes: The concept of a Damage and Value Added Tax *Abstract Book - Responisble and Innovative Research for Environmental Quality* (p. 541). Society of Environmental Toxicology and Chemistry Europe.

#### 2017



4. Ding, T., Bourrelly, S., & **Achten, W.** (2017). *Life Cycle Thinking for Sustainability Optimized Regional Land Use Planning* Paper session presented at FNRS-LCA group meeting.
5. **Achten, W.**, & Demoustiez, A. (2017). How to promote sustainability education across the curricula of all students: Practices, reflections and ongoing projects of Université libre de Bruxelles and Université de Lausanne Abstract session presented at 7th UNICA GREEN Workshop(26-28 April 2017: Tallinn, Estonia).
6. **Achten, W.**, Beliaev, J., De Bruecker, P., Degrez, M., De Jaeger, S., Eyckmans, J., Lavigne, C., Towa, E., & Zeller, V. (2017). Life cycle thinking for the Brussels' circular economy transition Abstract session presented at SETAC EUROPE(27: 07#11 May 2017: Brussels).
7. Towa, E., Zeller, V., Degrez, M., & **Achten, W.** (2017). Development of a regional material flow model to account for solid waste generation and management Abstract session presented at SETAC EUROPE(27: 07#11 May 2017: Brussels).

#### 2016

8. Sureau, S., Bauler, T., Delespesse, F., Descampe, A. A., Labarge, A. A., Pauwels, A., Pelenc, J., Wallenborn, G., & **Achten, W.** (2016). *The COSY-Food project: Assessing sustainability of alternative food networks in Belgium* Poster présenté à la conférence Fifth International Seminar on Social Life Cycle Assessment (13/06/2016: Cambridge, Massachusetts, USA).

#### 2015

9. Sureau, S., & **Achten, W.** (2015). *Developing Social Life-Cycle Analysis methodology through the study of social and socioeconomic impacts of Alternative Food Networks in Belgium* Poster présenté à la conférence FNRS LCA Contact Group (2015-11-19: Liège).
10. Sureau, S., Bauler, T., Delespesse, F., Descampe, A. A., Labarge, A. A., Pauwels, A., Pelenc, J., Wallenborn, G., & **Achten, W.** (2015, novembre 17). The COSY-food project: Assessing sustainability of alternative food networks in Belgium In E. Mathijs, M. Visser, T. T. Avermaete, S. Lagneaux, P. Stassart, M. Dufrière, J.-C. Grégoire, D. Van Dam, & F. F. Vanwindekens (Eds.), *BAM2015: 4th Belgian Agroecology Meeting* (p. 46). GIRAF.
11. Davidson, H., Vial, E., & **Achten, W.** (2015). Assessing business sustainability practices: Methodological guidance in simplifying LCA and evaluating triple bottom line principles using parametric modelling Abstract session presented at Towards a Sustainable Bioeconomy(21-23 October, 2015: Barcelona, Spain).
12. Sureau, S., Bauler, T., Delespesse, F., Descampe, A., Labarge, A., Pauwels, A., Pelenc, J., Wallenborn, G., & **Achten, W.** (2015). The COSY-project: Assessing sustainability of alternative food networks in Belgium Abstract session presented at BAM 2015(4: 17/11/2015: Leuven).

#### 2014

13. Almeida, J., Degerickx, J., **Achten, W.**, & Muys, B. (2014). Land use change related CO2 emissions in the LCA of biofuel-based electrification in Mali Abstract session presented at International conference on EcoBalance(11: 27-30 October: Tsukuba, Japan).

14. **Achten, W.**, Bauler, T., Kampelmann, S., & Petalios, D. (2014). Decentralised and agro-ecological farming in the EU: A transdisciplinary literature review Abstract session presented at Belgian Agroecology Meeting(3: 5 november 2014: Brussels).
15. Kampelmann, S., **Achten, W.**, Bauler, T., & Petalios, D. (2014). *Decentralised and agro-ecological farming in the EU : a transdisciplinary literature review* Paper session presented at Broadening Scopes on Food, Squeezing Urban Hinterlands (BAM2014 3rd Belgian Agroecology Meeting: 5 nov 2014: Brussels).
16. Härkönen, S., Mäkelä-Carter, A., Berninger, F., **Achten, W.**, Chirici, G., Hasenauer, H., Marchetti, M., Merganic, J., Merganicova, K., Mohren, F., Moreno, A., Mues, V., Mura, M., Mura, M., Neumann, M., & Svoboda, M. (2014). Simulating effects of forest management on European forest carbon stocks and carbon balance Abstract session presented at IUFRO World Congress(XXIV: 5-11 October, 2014: Salt Lake City, USA).
17. Muys, B., Cardellini, G., Almeida, J., & **Achten, W.** (2014). Approaches to evaluate the carbon neutrality of the forest value chain Abstract session presented at IUFRO World Congress(XXIV: 5-11 October, 2014: Salt Lake City, USA).

### 2013

18. Negussie, A., **Achten, W.**, Aerts, R., Norgrove, L., Sinkala, T., Nacro, S., Kenis, M., Hermy, M., & Muys, B. (2013). *Invasiveness risk assessment of new biofuel crops: theoretical considerations and practical experiences from *Jatropha curcas* L. in Africa* Paper session presented at International workshop on "Tracing Biofuel Transitions: Policies, Practices and Phase#outs" (24-25 January, 2013: The Netherlands).
19. Soto, I., **Achten, W.**, Muys, B., & Mathijs, E. (2013). *The expansion of biodiesel production from *Jatropha curcas* L. in Mexico and Mali: from institutional promotion to farmers' adoption* Paper session presented at International workshop on "Tracing Biofuel Transitions: Policies, Practices and Phase#outs" (24-25 January, 2013: The Netherlands).
20. **Achten, W.**, Brijs, K., Jansens, K. J., Goderis, B., & Van Acker, K. (2013). *Screening life cycle assessment of compression molded glassy, wheat gluten bioplastics* Paper session presented at International Conference on Society & Materials (7: 25-26 April 2013: Aachen, Germany).
21. De Schepper, E., Van Passel, S., Lizin, S., **Achten, W.**, & Van Acker, K. (2013). Cost-efficient emission abatement of energy and transportation technologies: Mitigation costs and policy impacts Abstract session presented at Conference on Sustainable Development of Energy, Water and Environment Systems(8: 22-27/09/2013: Dubrovnik (Croatia)).
22. Almeida, J., **Achten, W.**, & Muys, B. (2013). *How the inclusion of Land Use Change can eliminate different shortcomings of LCA* Poster présenté à la conférence LCA International Conference (XIII: October 1-3 2013: Orlando, FL, United States).

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23. Negussie, A., **Achten, W.**, Aerts, R., Hermy, M., & Muys, B. (2012). *Invasiveness risk of the tropical biofuel crop *Jatropha** Paper session presented at Young botanist day 2011 "Forest Biodiversity" (Dec 2nd 2011).

24. Negussie, A., **Achten, W.**, Aerts, R., Hermy, M., & Muys, B. (2012). *Invasiveness risk of the tropical biofuel crop Jatropha* Paper session presented at Studiedag Starters in het Natuur- en Bosonderzoek (16 March 2012: Brussels, Belgium).
25. Almeida, J., **Achten, W.**, Verbist, B., & Muys, B. (2012). *Carbon footprint and energy use of different options of greenhouse tomato production* Poster présenté à la conférence International Conference on Life Cycle Assessment in the Agri-Food sector (8: October 1-4, 2012: Saint-Malo, France).
26. Gielen, B., **Achten, W.**, Raes, D., & Muys, B. (2012). *Growth, yield and water use modeling of the biodiesel plant Jatropha* Poster présenté à la conférence Studiedag Starters in het Natuur- en Bosonderzoek (16 March 2012: Brussels, Belgium).
27. Almeida, J., **Achten, W.**, Duarte, M., Mendes, B., & Muys, B. (2012). *Bechmarking the life cycle environmental impacts of Jatropha biodiesel* Poster présenté à la conférence Studiedag Starters in het Natuur- en Bosonderzoek (16 March 2012: Brussels, Belgium).

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28. Almeida, J., & **Achten, W.** (2011). *Life cycle impact and carbon debt of tropical biofuel crops* Paper session presented at Class of Excellence, International Francqui Professor 2010-2011, Carbon and other ecosystem services of forests and bioenergy systems under global change (, may 25 2011: Leuven, Belgium).
29. **Achten, W.** (2011). *Duurzaamheidsevaluaties van land- en bosbouwproductie* Paper session presented at Klankbord Boerenbond (19 April 2011: Leuven, Belgium).
30. **Achten, W.**, & Verchot, L. (2011). *Implications of Biodiesel-Induced Land-Use Changes for CO2 Emissions: Case Studies in Tropical America, Africa, and Southeast Asia* Paper session presented at United Nations Framework Convention on Climate Change The 34th session of the Subsidiary Body for Implementation (SBI) and the Subsidiary Body for Scientific and Technological Advice (SBSTA) (UNFCCC - SBSTA) (June 6-17 June: Bonn, Germany).

#### 2010

31. **Achten, W.**, Almeida, J., Vandenbempt, P., Bolle, E., Fobelets, V., Singh, V., Verchot, L., Mathijs, E., & Muys, B. (2010). *Life cycle assessments of biodiesels: Jatropha versus Oil palm* Abstract session presented at .
32. **Achten, W.** (2010). *Sustainability evaluation of biodiesel from Jatropha curcas L.: A life cycle oriented study* Paper session presented at International Workshop on Biodiversity for Biofuels and Biodiesel in Arid Lands (October 18-19, 2010: Hermosillo, Sonora, Mexico).

#### 2009

33. **Achten, W.**, Vandenbempt, P., Mathijs, E., & Muys, B. (2009). *Life cycle assessment of a Palm oil system producing both biodiesel an cooking oil: a Cameroon case* Paper session presented at International Palm Oil Life Cycle Assessment (18-20 October 2009: Kuala Lumpur, Malaysia).
34. **Achten, W.**, Vandenbempt, P., Singh, V., Verchot, L., Mathijs, E., & Muys, B. (2009). *Comparing life cycle assessments of tropical bio-diesels: Jatropha versus Oil palm* Paper

session presented at World Congress of Agroforestry (23-28 August 2009: Nairobi, Kenya).

35. **Achten, W.**, Almeida, J., Mathijs, E., Singh, V., Verchot, L., & Muys, B. (2009). *Generic life cycle assessment of the Jatropha bio-diesel system* Paper session presented at 2nd JatrophaWorld Africa (October 14-15, 2009: Brussels, Belgium).
36. **Achten, W.**, Vandenbempt, P., Mathijs, E., & Muys, B. (2009). *Life cycle assessment of Oil palm biodiesel* Paper session presented at Leuven Sustainable Earth - Launch Event (19 June, 2009: Leuven, Belgium).
37. **Achten, W.**, Bolle, E., Fobelets, V., Mathijs, E., Deckers, S., & Muys, B. (2009). *Life cycle assessment of Jatropha biodiesel: preliminary results of an Indian case* Poster présenté à la conférence Starters in Bosonderzoek (19 March 2009: Brussels, Belgium).
38. **Achten, W.**, Aerts, R., Maes, W., Mathijs, E., Reubens, B., Trabucco, A., Muys, B., Lemaitre, P., Singh, V., Vandenbempt, P., & Verchot, L. (2009). *Environmental performance of tropical bio-diesel* Poster présenté à la conférence International symposium "Developing countries facing global warming: a post-Kyoto assessment" (12-13 June 2009: Brussels).
39. Almeida, J., **Achten, W.**, Trabucco, A., Mathijs, E., Singh, V., Verchot, L., & Muys, B. (2009). *Can Jatropha fuel a CO2-lean society?* Poster présenté à la conférence Strategic Energy Forum (4: 10 December 2009: Brussels, Belgium).
40. **Achten, W.**, Vandenbempt, P., Singh, V., Verchot, L., Mathijs, E., & Muys, B. (2009). *Comparing the life cycle environmental performance of biodiesel production from tropical biofuel trees: Jatropha and oil palm* Poster présenté à la conférence Shape your sustainability tools and let your tools shape you (23-24 September 2009: Uppsala, Sweden).

## 2008

41. Muys, B., Trabucco, A., **Achten, W.**, Mathijs, E., Van Orshoven, J., Zomer, R., & Verchot, L. (2008). *Land suitability for Jatropha biofuel production* Paper session presented at International conference on Renewable Resources and Biorefineries (1-4 June 2008: Rotterdam, the Netherlands).
42. **Achten, W.**, Mathijs, E., Verchot, L., Singh, V., & Muys, B. (2008). *Unraveling the Jatropha biodiesel system* Poster présenté à la conférence Strategic Energy Forum (3: 16 December 2008: Brussels, Belgium).

## 2007

43. Muys, B., **Achten, W.**, Mathijs, E., Singh, V., & Verchot, L. (2007). *Bio-diesel production from Jatropha curcas L.: energy balance, global warming potential and land use impac* Paper session presented at International Conference on Renewable Resources and Biorefineries (3: 4-6 June, 2007: Ghent, Belgium).
44. **Achten, W.**, Mathijs, E., Verchot, L., Singh, V., & Muys, B. (2007). *Bio-diesel from Jatropha: the life-cycle perspective* Paper session presented at FACT seminar Jatropha curcas L.: agronomy and genetics (26-28 March 2007: Wageningen, the Netherlands).

45. **Achten, W.**, Mathijs, E., Verchot, L., Singh, V., & Muys, B. (2007). *Bio-diesel from Jatropha: life-cycle and environmental impact* Paper session presented at International Energy Farming Congress (13 - 15 March 2007: Papenburg, Germany).
46. **Achten, W.**, Mathijs, E., Verchot, L., Singh, V., & Muys, B. (2007). *Life cycle assessment of bio-diesel from Jatropha curcas L. energy balance, impact on global warming, land use impact* Poster présenté à la conférence International conference on LCA in foods (5: 25-26 April 2007: Gothenburg, Sweden).
47. **Achten, W.**, Muys, B., Mathijs, E., & Verchot, L. (2007). *Biodiesel productie uit Jatropha in ontwikkelingslanden: Levenscyclusanalyse en relevante impactcategoriën* Poster présenté à la conférence Starters in het Bosonderzoek (22 March 2007: Brussel, Belgium).

#### 2006

48. **Achten, W.**, Muys, B., Mathijs, E., Singh, V., & Verchot, L. (2006). *Biodiesel production from Jatropha in developing countries: life cycle and relevant impact categories* Poster présenté à la conférence Conference biomass for energy: challenges for agriculture (25-26 September 2006: Bruges, Belgium).

## 5.5. - Activités de vulgarisation

#### 2013

1. **Achten, W.**, Ryckeboer, J., & Springael, D. (2013). Bioafbreekbare verpakkingen *Bio-ingenieus*, 13(2), 22-25.
2. Zah, R., Gmuender, S., Muys, B., **Achten, W.**, & Norgrove, L. (2013). Can Jatropha curcas contribute to climate change mitigation? *Jatropha facts*,(2).

#### 2012

3. Pacheco, P., Wardell, D. A., German, L., Johnson, F. X., Bird, N., Van Gelder, J. W., Schwaiger, H., Schoneveld, G., Obidzinski, K., Guariguata, M., Skutsch, M., Masera, O., Gao, Y., Von Maltitz, G., **Achten, W.**, Verchot, L., Komarudin, H., & Andriani, R. (2012). Synthesis – Bioenergy, sustainability and trade-offs: Can we avoid deforestation while promoting biofuels? *CIFOR news.*, 54.