

curriculum vitae

NAME: Dr. Stefan Hauser

ADDRESS: International Institute of Tropical Agriculture
(IITA),
IITA Head Quarters, Ibadan, Nigeria
Oyo Road

Mobile ++ 234 (0) 8098552045
E-mail : <s.hauser@cgiar.org> or
<iita_dr_congo@airpost.net>

DATE OF BIRTH: 15 May 1957

NATIONALITY: German

MARITAL STATUS: Married, 4 children (28, 26, 4, <1)

LANGUAGES: English (fluently) German (fluently)
French (fair)

INTERNATIONAL MAILING ADDRESS

Dr. Stefan Hauser, IITA-DR Congo
c/o IITA International
26 Dingwall Road
Croydon
CR 9 3 EE
U.K.

UNIVERSITY EDUCATION:

January 1983 - May 1987

Ph.D. course at University of Göttingen, Germany, Faculty of Agriculture, Institute of Agronomy and Plant Breeding.

Thesis title: Estimation of symbiotically fixed dinitrogen by faba beans (*Vicia faba* L.) using extended difference methods.

14 May 1987 Ph.D Examination.

October 1977 - October 1982

Four-year course in agriculture plus one year practicals on a farm.

Diploma thesis (equivalent to Master Thesis) University of Göttingen, Germany, Faculty of Agriculture, Institute of Agronomy and Plant Breeding:

Thesis title: Observation on overwintering, regeneration and yield structure of winter beans (*Vicia faba* L.) cv. Webo.

22 August 1983 Final Diploma Examination.

Professional experience:

September 2011 until today:

Root and Tuber agronomist at IITA Ibadan, Nigeria, in charge of:

All root and Tuber agronomy and the linking of root and tuber crop breeding with agronomy for early identification of responsive genotypes.

The research farm unit at Ibadan and all other locations in Nigeria,

The analytical service laboratory

October 2011 to date – Root & Tuber systems agronomist at IITA Head Quarters,

With additional functions as:

CRP “Humidtropics” focal point for IITA,

CRP “Roots, Tubers & Bananas” Global leader theme 5:” Developing tools for more productive, ecologically robust cropping systems”.

In charge of:

Yam and cassava agronomy including natural resource management, soil management and soil fertility issues,

Strategic farm management of the entire IITA Ibadan farm land and lakes and all out stations in Nigeria,

Supervision of the GIS laboratory,

Supervision of the analytical service laboratory (soil, plant and water chemistry; soil physics),

Member of the IITA risk management committee,

Building warden for building 401 (offices and several laboratories)

February 2007 until September 2011: Country Representative and senior agronomist IITA DR Congo, posted to Kinshasa.

In charge of:

all IITA activities in DR Congo,

the liaison with government and authorities, specifically the establishment of an MoU with the ministry of Foreign Affairs,

the rehabilitation and restructuring of the national agricultural research Institute (INERA), hosting other CGIAR or ARI institutions,

arranging for a concerted CG effort in DR Congo,

developing a priority setting system for agricultural research within all agricultural research institutions of DR Congo,

training of a first set of scientists to re-launch research in INERA,

training on the job of a maximum number of INERA staff to support the re-launch of the institute,

seeking private –public partnerships to launch medium and large scale agricultural operations.

develop concept notes on IITA core research activities for DR Congo

conduct research on major staples such as cassava, maize, soybean cowpea and plantain

March 1993 to Feb 2007

Agronomist and soil physicist, in the Humid Forest Program of the International Institute of Tropical Agriculture (IITA), Humid Forest Eco-regional Centre (HFC), Yaoundé, Cameroon with the following additional duties:

January 2005 to July 2006 Program Leader of IITA’s Humid and sub-humid forest zone program, coordinating 44 scientists with a total contribution of 28 Senior Scientist Years.

March 1993 to February 2007

In charge of the Soil Physics laboratory at Mbalmayo.

March 1995 to date

in charge of farm and forest management of the 1000 ha of farm and forest research land allocated to IITA at the Mbalmayo Forest Reserve. This includes:

- Negotiations with the appropriate ministries the terms and conditions of land use on IITA's 1000 ha research farm, located within a forest research reserve.
- Implementation of general farm & forest management principles and the appropriate use and management of spent experimental fields.
- Improving and maintaining the IITA-Humid Forest Ecoregional Centre's (HFC) profile in the local, regional and international research community and amongst non-research organisations and authorities. This includes hosting scientists working in the Mbalmayo forest reserve, receiving visitors at the IITA research farm and conducting field tours.
- Backstopping and supporting the local forestry authority's efforts to control illegal clearing and timber extraction.
- Contribution to the restructuring of the common services manpower of the HFC.
- Responsibility for the physical establishment and maintenance of IITA's boundaries and formal acknowledgement by Ministries and Authorities.
- Maintenance of research farm infrastructure; field machinery and drying facilities, workshop facilities, offices, laboratories, conference and catering facilities, including repairs of machinery not common in Cameroon.
- Provide technical support and infrastructure to conduct efficient research, including construction of machinery and facilities not available in Cameroon.
- Provide suitable land for IITA and collaborator research activities.
- Develop the farm from a 'research only' to a service unit through production of improved seed, planting materials and seedlings, and introduction of a commercial component in the farm operations.
- Training farm manager and farm staff.

February 1994 to February 1996

in charge of the plant and soil chemistry laboratory of the IITA HFC.

April 1991 to March 1993 Soil Physicist and Agronomist with IITA, Resource and Crop Management Division (RCMD), on a GTZ funded special project on water and nutrient dynamics in traditional and planted fallow/cropping rotational systems of the humid to sub-humid tropics.

October 1987 to March 1991 Soil Physicist and Agronomist with the KALI & SALZ AG, Germany, posted to IITA, Resource and Crop Management Division (RCMD), on a GTZ funded special project on water and nutrient movement in cropping systems of the humid tropics.

Currently maintained research activities through APO position in Cameroon

General

The research portfolio on plantain that was established in former years will be maintained until data from trials are sufficient to justify termination. An APO will supervise the day to

day operations while developing his own portfolio on cassava agronomy and processing under my supervision.

My current research portfolio apart from continued activities in Cameroon is on priority setting in DR Congo to determine the most important disciplines in which Congolese research staff needs to be trained to improve research capacity and solve the most pressing problems of food security in DR Congo. Currently this entails a wide range of topics ranging from cassava entomology to cassava processing losses and product quality, maize varietal testing and increased yields through improved soil fertility from leguminous cover crops, to plantain pest and disease surveys and the economics of cassava and maize varietal adoption. These topics are of relevance to a wide range of farmers in lowland DR Congo. In addition the precarious food situation in Kinshasa, where still about 50% of the population (which may be between 3.5 and 5.5 million people) do only eat properly every other day needs to be addressed immediately. This, due to the infrastructural problems in DR Congo is not possible with food production increases by small holder farmers tickling down to an urban population. Here I attempt to get medium and large scale producers to adopt mechanization and produce cassava and maize on large scale farms in the immediate vicinity of Kinshasa. Cassava varietal introductions have already been tested and were accepted by these farmers, now the use of machines to cultivate larger areas, the use of herbicides to retain mulch and the introduction of leguminous cover crops to sustain fertility and crop yields has to follow.

My research portfolio in Cameroon was on smallholder food and cash crop systems in the humid forest zone of West and Central Africa. The systems are largely based on natural fallow regrowth of various length (1 to >25 years) followed by slash and burn agriculture for relatively short phases (3 to 36 months), depending on the crop. The cash crops are mainly perennials such as cocoa, oil palm and a number of non-timber-tree products grown in unspecific multi-species systems.

Individual areas of research in approximate order of time allocation.

1. Priority setting for agricultural research in the DR Congo and training of at least 10 MSc and PhD students

This activity is the IITA component of the EU FAO project (REAFOR) on the re-launching of research and the rehabilitation of the research infrastructure and human resources in INERA.

2. Integrated plantain (*Musa spp. AAB*) cropping systems in the humid forest zone

This activity is geared towards developing viable plantain production systems with increased marketing in two target domains: 1) forested areas where activities aim to reduce forest clearing for plantain production without compromising total output and 2) degraded land, specifically urban vicinities, where rehabilitation of plantain production to economically viable and competitive levels is the aim.

Research focuses on integrated pest management (IPM), integrated crop/soil management (ICSM) and introduction / testing of alternative *Musa* types (cooking banana, plantain hybrids, uncommon cultivars).

IPM focuses on (1) development, testing and dissemination of effective and efficient methods to clean planting material from nematodes and weevils, affordable and feasible for smallholder farmers; (2) potentially nematicidal intercrops and mulches, and the effects of nutrient application (fertilizer and mulch) on the health status of the root system.

ICSM integrates all suitable IPM options and combines with (1) plantain agronomy, in particular choice of fallow type, biomass retention (mulching) versus burning, intensity of weed control, fertilizer use (including alternative nutrient sources such as ash), planting density and intercropping with horticultural crops, planting time and planting hole size. Still investigated, yet less important: effects of partial shading on black sigatoka (*Mycosphaerella fijiensis*) severity.

Introduction of alternative *Musa* types: nematode and black sigatoka resistant or tolerant cooking bananas and plantain hybrids are being tested for disease resistance and yield. They are primarily to replace plantain in processed products. Uncommon cultivars target high value marketing opportunities. All plantain IPM / ICSM and varietal trials have an economics component.

3. Cassava agronomy and introduction of improved varieties

This activity is geared to establish sufficient multiplication area to provide farmers and collaborators with improved material, whereby the collaborating partners are multiplying and distributing materials after verification of yield advantages on-farm in a community based approach of evaluation. Research is focusing on the effects of fertilizer application, the consequences of leaf removal for human consumption and on disease incidence under various growth conditions. All research activities are on-farm – multiplication is partially on-station.

4. Survey of entomopathogenic nematodes in southern Cameroon and assessment of their potential as bio-control agents of major soil-born insect pests

This activity is in collaboration with the University of Ghent Belgium. Southern Cameroon is very rich in biodiversity yet as well center of origin of pests and diseases. This survey is to establish the biodiversity of entomopathogenic nematodes as potential control agents for the African root and tuber scale and other insect pests with an extended period of their life cycle in the soil, such as the hopper (*Zonocerus variegatus*) and numerous species of butterflies and moths.

Research activities until February 2007

1. Landscape-level land use management, Ecosystem integrity, Biological indicators of sustainability, Soil Biology, Biodiversity,

In all research areas an agro-ecology component is integrated to ensure that systems introduced to farmers have the least negative effects on the existing plant, animal and microbe communities. Data are currently fed into a landscape model to simulate land use change under various economic conditions and as consequence of the introduction of new production systems, some of which I am conducting research on.

All research is geared towards sustainable agricultural practices, therefore biological key-functions and processes are monitored in large-scale, long-term experiments. For instance earthworm activity, measured by agriculturally relevant surface cast deposition, is monitored in experiments comparing different fallow systems and the effects of land use intensity and land use change. Decomposition of different plant materials and soil enzyme activity are tested for suitability as indicators of soil quality. These indicators are to be used to rank the degrading effects of certain land uses and agronomic practices to select for those least detrimental. At the same time we seek methods to enhance some of the biological processes to ameliorate soil degradation. Biological management of soils and soil/agro-biodiversity have gained importance. However, effects of fertiliser and pesticide use on the ecosystem and the major processes and key-species are investigated.

2. Sustainable Tree Crops Programme (STCP)

I am working in the USAID and M&M Masterfood sponsored STCP on cocoa agro-ecology (developed in collaboration with Dr. L. Norgrove, ROBERT BOSCH Foundation, Germany). I lead the screening of new cocoa hybrids in farmer relevant land use systems (collaboration with IPGRI).

Activities are developing bio-diverse, stable, cash income orientated, perennial production systems with an increased proportion of marketable species through: 1) rehabilitation of degraded land into perennial, multi-species agroforests to increase total farm output and 2) understanding the ecological consequences of and increasing and stabilizing cocoa production in forested areas under natural shade.

On degraded land, focus is on participatory methods to rehabilitate land to support short, mid and long-term cash income generating crops. Tree / crop combinations are tested for their ability to facilitate tree establishment and growth and early income. New fruit trees are evaluated for production and marketing potential. Carbon sequestration is monitored to prepare for C trading interventions. Ultimately, multi-species multi-product systems are developed which reduce economic risk and susceptibility to pest and disease invasion, while maintaining biodiversity in these systems.

In shaded cocoa plantations focus is on ecological consequences of fungicide use and the requirements for stable, economically viable cocoa yields. All cocoa varieties are susceptible to *Phytophthora megakarya*. Fungicide application is prerequisite for yield. We monitor activity of 'keystone' species and major processes when abandoned cocoa plantations are returned to production. Further research is on options to transform old heavily shaded plantations into more profitable multi-product agroforests. Pot experiments are conducted on effects of shade, water and nutrients to guide field experiments.

New cocoa hybrids are currently screened for their ability to establish and grow in degraded land and under various shade conditions.

3. Intensive crop production in extremely short fallow cycles (Relay cropping)

This activity is geared towards intensifying annual cropping systems for income generation. The goal are systems which produce every year without causing nutrient depletion and excessive weed invasion.

Fast-growing herbaceous legumes are grown during crop-free phases to accumulate biomass and nutrients and suppress weeds. Focus is on system sustainability, i.e., yield response of maize, persistence (need to re-seed) of the legume species, biomass and nutrient accumulation, including N-fixation, weed suppression and maize yield response after burning versus biomass retention. We encourage farmers to grow any crop they are interested in, apart from those known to be incompatible with the legumes.

4. Efficiency of different fallow types in short fallow systems

This activity is geared towards compensating for potential soil fertility (soil quality) losses due to shortened fallow length. The goal are fallow systems that allow a higher cropping frequency in traditional slash and burn fashion, without compromising soil fertility replenishment.

Trees, shrubs and herbaceous legumes are planted and left to fallow. After various fallow length (1-4 years) these fallows are slashed burned and cropped. Focus is on crop yield responses of the major subsistence crops of the Congo Basin and labour requirements.

Other research and dissemination-related activities

Member of the organizing committee and scientific committee of the 2008 Banana and plantain conference in Mombassa, Kenya.

Produced with a local NGO a video on plantain root and corm health and rapid multiplication methods. The video (45 minutes) was aired twice on CRTV (Cameroonian state television) at prime time in 1999.

Co-produced the HFC video, i.e. shot a large proportion of the footage, acted in it and worked on the script.

Produced with the IITA Multi Media unit I-news feature “no watched pot” on plantain sucker cleaning in boiling water.

I am IITA contact person for the Alternatives to Slash and Burn Project (ASB) activities related to below ground biodiversity and below ground indicators of systems’ sustainability. I contributed the section on soil sampling and physical and chemical analyses for the new edition of the ASB handbook of methods (not listed under publications).

Organised international workshop at Yaoundé on: Biodiversity, Abundance and Function of Earthworms and Termites in Ecosystems Along a Gradient of Land Use Intensification in Southern Cameroon, funded by Wageningen Agricultural University (October 1999).

Served on the executive committee developing the administrative basis for the transition of CRBP (the Cameroonian national research centre on banana and plantain) from a national to a regional research centre (1998 and 1999).

Initiated a large-scale program on the production of clean plantain planting material and cleaning of conventional suckers in collaboration with relevant national institutions.

Delineated with local stakeholders the southeast Nigerian Forest Pockets Benchmark. I am the liaison scientist for the southeast Nigerian benchmark.

Professional Societies

International Union of Soil Science (life time member)

International Society of Horticultural Science

Deutsche Bodenkundliche Gesellschaft

Gesellschaft fuer Pflanzenbauwissenschaften

Deutsche Phytomedizin Gesellschaft

Degree training

Supervised graduates who defended successfully:

<i>Name</i>	<i>Degree</i>	<i>University</i>	<i>Year</i>
1. ASAWALAM, Damian	PhD	Nsukka, Nigeria	1997
2. SALAKO, F	PhD	Ibadan, Nigeria	1997
3. CHOKOR	PhD	Ibadan, Nigeria	
4. NYOBE, T	PhD	Ibadan, Nigeria	1998
5. NUMBEM, S	PhD	Cornell, USA	1998
6. NORGROVE, L.	PhD	London, UK	1999
7. NYOBE, T	MSc	Ibadan, Nigeria	1992
8. OFODILE, E	MSc	Ibadan, Nigeria	1997
9. CHINWO. K	MSc	Ibadan, Nigeria	1993
10. BÜTTNER, U	MSc	Göttingen, Germany	1996

11. DJOMO, K.	Ing. Ag.	Dschang, Cameroon	1998
11. MEKOA, C	Ing. Ag.	Yaoundé, Cameroon	2000
12. EPEY, T.	Ing. Ag.	Dschang, Cameroon	2002
13. TUECHE, J.R.	M.Sc.	Yaoundé, Cameroon	2002
14. NGO KANGA, F.	Ing. Agr.	Dschang, Cameroon	2003
15. LOSE, S. *	PhD	Hohenheim, Germany	2003
16. MOTUE, G.	Tech. Sup.	Dschang,	2003
17. ATANGANA, T.	Tech. Sup.	Mbalmayo, Forestry school	2003
18. TUECHE, J.R.	DEA	Yaoundé, Cameroon	2003
19. MADONG, a B.	PhD	Wageningen, The Netherlands	2004
20. GANG, E.	M.Sc.	Ghent, Univ. Ghent	2004
21. TIECHE, B.	M.Sc.	Yaoundé, Cameroon	2004
22. NYECK, B.	Doctorat d'état	Yaounde I, Cameroon	2005
23. Ngo Kanga	MSc	Ghent, Univ. Ghent	2005
24. Ntieche Ngoumbe S	DEA	Yaounde I	2006
25. Schoesser B	M.Sc.	Bonn Germany	2006
26. DUX, J.	M.Sc.	Humboldt University Berlin	2005
27. PEKELELE, M.	M.Sc	Dschang, Cameroon	2006
28. NTSAMA , Christelle	Ing.Agr.	Dschang, Cameroon	2006
29. BANFUL, B.	PhD	Legon, Accra, Ghana	2007
30. KONGA Charles	DESS	University Yaounde I	2007
31. NJAYOU, M.	DESS	University Yaounde I	2007
32. NCHOUTNSU, A.	DESS	University Yaounde I	2007
33. LIENOU Jules	DESS	University Yaounde I	2007
34. AMBASSA, Charles	DESS	University Yaounde I	2007
35. PARH, Evelyn.M.	MSc		
36. Bungu Denis	MSc	University Gembloux	2010
37. Makongo Fabien	DEA	University Kinshasa	2010
38. Kuzimbila Joachim	DEA	University Kinshasa	2010
39. Mwangu Mbuta	DEA	University Kinshasa	2010
40. Kutnjem Dauda	MSc	University Yaounde	2010
41. Jacobsen Kim	PhD	University Leuven	2010
42. Mulumba Dominique	DEA	University Kinshasa	2011
43. Mulamba Leonard	DEA	University Kinshasa	2011
44. Ngo Kanga, F.	PhD	Ghent, Univ. Ghent	VLIR 2012

* co-supervising

Current Graduate Advisees

<i>Name</i>	<i>Degree</i>	<i>University</i>	<i>Funding</i>
1. MEKOA, C	DEA	University Yaounde I	self / ASB
2. Tueche Roberto	PhD	Hohenheim, Germany	Robert Bosch
IITA & self			
3. Vangu Paka Germain	PhD	University Kinshasa	IITA
4. Boyo Fasaya Eric	DEA	University Kinshasa	IITA
5. Likoko Kokoyange	DEA	University Kinshasa	IITA
6. Mukirania Jacob	DEA	University Kinshasa	IITA
7. Vwambale Anselm	MSc	Makerere University	IITA

Titles of Ing. Ag., MSc and PhD theses currently supervised

1. Effect of fallow age, planting material, sucker cleaning and fertiliser application on the yield of two cultivars of plantain (*Musa* spp. AAB, subgroups French and False Horn).
2. Changes of soil physical properties of southern Cameroonian Ultisols under plantain (*Musa* spp. AAB).
3. Survey of plantain cropping systems in Bas Congo (DR Congo) and identification of major production constraints.
4. Factors affecting the invasion of pasture land by *Chromolaena odorata* on clay soils in Bas Congo
5. Effects of fallow age on the grain yield and biomass production of selected maize varieties in the Ubangi region of DR Congo.
6. Effect of *Striga* spp on grain and biomass yield of maize in Kassai Oriental.
7. Distribution of *Striga* spp in DR Congo

Grant winning

Approximately US\$120,000.- for IITA - IRAD - Wageningen Agricultural University collaborative project on Soil macrofauna diversity, density and function along a land-use intensification gradient in the humid forest zone of southern Cameroon for 1999 to 2002.

Approximately US\$ 500,000.- for IITA - GTZ- University of Göttingen collaborative project on: Impact of fallow management and cropping intensity on water and nutrient dynamics of a tropical Alfisol. (1992 - 1994).

Approximately US\$ 1.3 million for IITA from EU / FAO for a project to rehabilitate the human resources of INERA the national agricultural research system in DR Congo (April 2007 to March 2010).

Approximately US\$ 12 million for IITA from the government of the Republic of Cameroon for the PREBAP project pilot phase (40 months).

Publications

80 peer reviewed journal articles / abstracts, 1 non-peer reviewed journal article, 11 peer reviewed book chapters, 3 book reviews, 30 conference proceedings, 33 poster presentations.

Ready for submission

1. Jacobsen, K., **Hauser, S.**, De Waele, D. Effect of hot-water treatment, fertilizer and fallow length on nematode densities and related root damage in two plantain (*Musa* spp., AAB) cultivars (Center Province, Cameroon).
2. **Hauser, S.**, Ngon Parh, D. and Bengono, B. Performance of plantain (*Musa* spp. AAB) and cooking banana (*Musa* spp. ABB) as food crops and as shade providers for young cocoa.
3. **Hauser, S.**, Amougou, D., Ngo Kanga, F., Norgrove, L., Edzoa, J-P. Effects of Fertilizer Application and Sucker Treatment on the Yield of a Local False Horn Plantain (*Musa* spp., Group AAB) Cultivar in Fallows of Different Ages.

Submitted

1. H. Hoff, P. Döll, M. Fader, D. Gerten, **S. Hauser**, S. Siebert, (submitted) Water footprints of cities – indicators for sustainable consumption and production. HESS

Accepted

1. **Hauser, S.** and Gauhl, F. Effect of fallow type, cropping frequency and crop density of a groundnut / maize / cassava / plantain intercrop on growth, fruit yield and ratooning of plantain. *Biological Agriculture and Horticulture*.

in press**Published****a) Journal articles / abstracts**

1. Norgrove, L., **Hauser, S.** (2013) Black leaf streak disease and plantain fruit characteristics as affected by tree density and biomass management in a tropical agroforestry system. *Agroforestry Systems* 87 349–354. [pdf available](#)
2. Norgrove, L., **Hauser, S.** (2013) Carbon stocks in shaded *Theobroma cacao* farms and adjacent secondary forests of similar age in Cameroon. *Tropical Ecology* 54 15-22. [pdf available](#)
3. Wendt, J.W., **Hauser, S.** (2013) An equivalent soil mass procedure for monitoring soil organic carbon in multiple soil layers. *European J Soil Science* 64, 58-65. [pdf available](#)
4. Tueche, R., Norgrove, L., **Hauser, S.**, Cadisch, G. (2013) Tillage and varietal impacts on tomato (*Solanum lycopersicum* L.) production on an ultisol in central Cameroon. *Soil & Tillage Research* 128 1-8.
5. Ngo Kanga, F., Trinh, P.Q., Waeyenberge, L., Spiridonov S.E., **Hauser, S.**, Moens, M. (2012) Two new species of *Steinernema* Travassos, 1927 from the humid forest of southern Cameroon. *Russian Journal of Nematology*, 2012, 20 (1), 15 – 36.
6. Ngo Kanga, F., Waeyenberge, L., **Hauser, S.**, Moens, M. (2012) Distribution of entomopathogenic nematodes in Southern Cameroon. *Journal of Invertebrate Pathology* 109 041- 051. [pdf available](#)
7. **Hauser, S.**, Norgrove, L., Asawalam, D.O., Schulz, S. (2012) Effect of land use change, cropping systems and soil type on earthworm cast production in West and Central Africa. *European Journal of Soil Biology* 49 47-54. <http://dx.doi.org/10.1016/j.ejsobi.2012.01.006> [pdf available](#)
8. **Hauser, S.**, Mekoa, C. and Ngo Kanga, F. 2012. The effects of burning forest biomass on the yield of the plantain (cv. Ebang, *Musa* spp. AAB, false horn) after hot-water and boiling – water treatment in southern Cameroon. *Archives of Agronomy and Soil Science*. 58, 399-409. [pdf available](#)

9. Tueche, R., **Hauser, S.** (2011) Maize (*Zea mays* L.) yield and soil physical properties as affected by the previous plantain cropping systems, tillage and nitrogen application. Soil and Tillage Research 115-116: 88-93. [pdf available](#)
10. Norgrove L., Csuzdi C., **Hauser, S.** 2011 Effects of cropping and tree density on earthworm species diversity and densities in central Cameroon. Applied Soil Ecology. 49: 268-271. [pdf available](#)
11. Tueche, R., **Hauser, S.**, Banful, B., Cadisch, G. 2011. Influence of different plantain cropping systems on soil physical properties and plantain bunch yield. Archives of Agronomy and Soil Science. 57, 789-803. [pdf available](#).
12. Banful, B.K., **Hauser, S.** 2011. Changes in soil properties and nematode population status under planted and natural fallows in land use systems of southern Cameroon. Agroforestry Systems. 82:263–273. [pdf available](#)
13. **Hauser, S.** 2010. Growth and Yield Response of the Plantain (*Musa* spp.) Hybrid 'FHIA 21' to Shading and Rooting by *Inga edulis* on a Southern Cameroonian Ultisol. Acta Hort. (ISHS) 879: 487-494 http://www.actahort.org/books/879/879_53.htm [pdf available](#)
14. **Hauser, S.**, Amougou, D. 2010. Plantain (*Musa* spp.) Cropping Systems of Southern Cameroon. Acta Hort. (ISHS) 879: 495-508
http://www.actahort.org/books/879/879_54.htm [pdf available](#)
15. **Hauser, S.**, Messiga, F.N.K. 2010. Nematode Control on Plantain Suckers (*Musa* spp. AAB Genome) Through Submergence in Boiling Water: Emergence Rates, Early Growth, Bunch Yield and Root Health. Acta Hort. (ISHS) 879: 323-331
http://www.actahort.org/books/879/879_33.htm [pdf available](#)
16. **Hauser, S.**, Van Asten, P. 2010. Methodological Considerations on Banana (*Musa* spp.) Yield Determinations. Acta Hort. (ISHS) 879: 433-444
http://www.actahort.org/books/879/879_48.htm [pdf available](#)
17. **Hauser, S.**, Amougou, D., Bengono, B., Ngo Kanga, F., Pekeleke, M. 2010. On-Farm Demonstration, Testing and Dissemination of Boiling Water Treatment for Plantain (*Musa* spp.) Sucker Sanitation in Southern Cameroon. Acta Hort. (ISHS) 879: 509-515
http://www.actahort.org/books/879/879_55.htm [pdf available](#)
18. Mekoa, C., **Hauser, S.** 2010. Survival and Yield of the Plantain 'Ebang' (*Musa* spp., AAB Genome, 'False Horn') Produced from Corm Fragment Initiated Plants and Suckers after Hot Water Treatment in Southern Cameroon. Acta Hort. (ISHS) 879: 527-535
http://www.actahort.org/books/879/879_57.htm [pdf available](#)
19. Mobambo, P., Staver, C., **Hauser, S.**, Dheda, B., Vangu, G. 2010. An Innovation Capacity Analysis to Identify Strategies for Improving Plantain and Banana (*Musa* spp.) Productivity and Value Addition in the Democratic Republic of Congo. Acta Hort. (ISHS) 879: 821-828
http://www.actahort.org/books/879/879_90.htm [pdf available](#)
20. Coyne, D., **Hauser, S.** 2010. Rapid treatment of banana suckers for nematode management. (Abstract) South African Journal of Plant and Soil 27: 259.
21. Kekeunou, S., **Hauser, S.**, Weise, S., Messi, J., Moglan, I. 2010 Effect of planted fallow systems on *Zonocerus variegatus* (Orthoptera: Pyrgomorphidae) abundance in the humid forest zone of Southern Cameroon. J Pest Sci 83 : 399–407. [pdf available](#)

22. Jacobsen, K., Maes, L., Norgrove, L., Mouassom, H., **Hauser, S.**, De Waele, D. (2009) Host status of twelve commonly cultivated crops of the Cameroon Highlands for the nematode *Pratylenchus goodeyi*. International J of Pest Management 55: 293-298. [pdf available](#)
23. **Hauser, S.**, Mekoa, C. (2009) Biomass production and nutrient uptake of *Chromolaena odorata* as compared with other weeds in a burned and a mulched secondary forest clearing planted to plantain (*Musa* spp. AAB). Weed Research 49: 193-200. [pdf available](#)
24. Banful, B., **Hauser, S.**, Ofori, K., Kumaga, F. (2008) Nematodes and Weeds Control Effects of *Pueraria phaseoloides* and *Flemingia macrophylla* Fallows on Establishment, Survival and Yield of Plantain. West African Journal of Applied Ecology, 14: 1-14. [pdf available](#)
25. **Hauser, S.**, Bengono, B., Bitomo, O.E. (2008) Short- and long-term maize yield response to *Mucuna pruriens* and *Pueraria phaseoloides* relay fallow and biomass burning versus mulching in the forest zone of southern Cameroon. Biological Agriculture and Horticulture, 26: 001-017. [pdf available](#)
26. **Hauser, S.** (2008) Groundnut / cassava / maize intercrop yields over three cycles of planted tree fallow / crop rotation on Ultisol in southern Cameroon. Biological Agriculture and Horticulture, 25: 379-399. [pdf available](#)
27. **Hauser, S.**, Mekoa, C. and Jacobsen, K. (2008) Bunch yield response of two cultivars of plantain (*Musa* spp., AAB, subgroups French and False horn) to hot-water treatment and fertilizer application planted after forest and bush / grass fallow. Archives of Agronomy and Soil Science, 54, 541-556. [pdf available](#)
28. **Hauser, S.** (2008) Biomass production, nutrient uptake and partitioning in planted *Senna spectabilis*, *Flemingia macrophylla* and *Dactyloctenium aegyptium* fallow systems over three fallow/cropping cycles on Ultisol. Archives of Agronomy and Soil Science, 54, 423-438. [pdf available](#)
29. Banful, B., **Hauser, S.**, Ngo Kanga, F., Kumaga, F., Ofori, K. (2008). Soil population of *Helicotylenchus multincinctus* under *Pueraria phaseoloides*, *Flemingia macrophylla* and natural bush fallows and their effect on plantain yield in the humid forest zone of southern Cameroon. Biological Agriculture & Horticulture, 25, 209-221. [pdf available](#)
30. Banful, B., **Hauser, S.** Ofori, K., Kumaga, F. (2007) Weed biomass dynamics in planted fallow systems in the humid forest zone of southern Cameroon. Agroforestry Systems, 71, (1): 049-055. [pdf available](#)
31. Banful, B., **Hauser, S.** Kumaga, F, Ofori, K., Ndango, R. (2007) Decomposition and nutrient release patterns of *Pueraria phaseoloides* and *Flemingia macrophylla* under two rainfall regimes. Agricultural and Food Science Journal of Ghana 6, 485-500.
32. Banful, B., Ofori, K., Kumaga, F., **Hauser, S.**, Ndango, R. (2007) Decomposition and nutrient release patterns of *Pueraria phaseoloides*, *Flemingia macrophylla* and *Chromolaena odorata* leaf residue in tropical land use systems. Ghana Journal of Agric. Sci. 41: 11-22. [pdf available](#)
33. **Hauser, S.** (2007) Plantain (*Musa* spp. AAB) bunch yield and root health response to combinations of mechanical, thermal and chemical nematode control measures on suckers. African Plant Protection 13, 1-15. [pdf available](#)

34. **Hauser, S.**, Norgrove, L., Nkem, J. (2006) Groundnut / maize / cassava intercrop yield response to fallow age, cropping frequency and crop plant density on an Ultisol in southern Cameroon. *Biological Agriculture and Horticulture* 24, 275-292. [pdf available](#)
35. **Hauser, S.**, Nolte, C., Carsky, R.J. (2006) What role can planted fallows play in humid and sub-humid West Africa? *Nutrient Cycling in Agroecosystems* 76, 297-318. [pdf available](#)
36. Tenkouano, A., **Hauser, S.**, Coyne, D., Coulibale, O. (2006) Clean planting materials and management practices for sustained production of banana and plantain in Africa. *Chronica Horticulturae* 46 (2), 14-18. [pdf available](#)
37. **Hauser, S.**, Gang, E., Norgrove, L., Birang, a M. (2005) Decomposition of plant material as indicator of ecosystem disturbance in tropical land use systems. *Geoderma* 129, 99-108. [pdf available](#)
38. **Hauser, S.**, Norgrove, L., Duguma, B., Asaah, E. (2005) Soil water regime under rotational fallow and alternating hedgerows on an Ultisol in southern Cameroon. *Agroforestry Systems* 64, 73-82. [pdf available](#)
39. Nolte, C., Tiki-Manga, T., Badjel-Badjel, S., Gockowski, J., **Hauser, S.** (2005) Groundnut, maize and cassava yields in mixed-food crop fields after calliandra tree fallow in southern Cameroon. *Experimental Agriculture* 41, 21-37. [pdf available](#)
40. Koutika, L.-S., Ndango, R., **Hauser, S.** (2004) Nutrient concentrations and NH_4^+ - N mineralization under different soil types and fallow forms in southern Cameroon. *Journal of Plant Nutrition and Soil Science* 167, 591-595. [pdf available](#)
41. Koutika, L. -S., **Hauser, S.**, Meuteum Kamga J.G., Yerima, B. (2004) Comparative study of soil properties under *Chromolaena odorata*, *Pueraria phaseoloides* and *Calliandra calothyrsus*. *Plant and Soil* 266, 315-326. [pdf available](#)
42. Asawalam, D.O., Enwezor, W.O., Agbim, N.N., **Hauser, S.** (2004) Biological activity of surface casting tropical earthworms in relation to nutrient cycling and soil fertility. *Nigerian Journal of Soil Science* 14, 56-63.
43. Büttner, U. **Hauser, S.** (2003) Farmers' nutrient management practices in indigenous cropping systems in southern Cameroon. *Agriculture, Ecosystems and Environment* 100, 103-110. [pdf available](#)
44. Birang, M. a, **Hauser, S.**, Brussard, L., Norgrove, L. (2003) Earthworm surface casting activity on slash-and-burn cropped land and in undisturbed *Chromolaena odorata* and young forest fallow in southern Cameroon. *Pedobiologia* 47 (5-6) 811-818. [pdf available](#)
45. Birang, M. a, **Hauser, S.**, Amougou, D.L. (2003) Farmer's perception of the effects of earthworms on soil fertility and crop performance in southern Cameroon. *Pedobiologia* 47 (5-6) 819-824. [pdf available](#)
46. Norgrove, L., Nkem, J.N., **Hauser, S.** (2003) Effects of residue management on earthworm surface cast production after *Chromolaena odorata* short fallow in the humid tropics. *Pedobiologia* 47 (5-6) 807-810. [pdf available](#)
47. Norgrove, L., Nkem, J.N., **Hauser, S.** (2003) Separating the agronomic effects of burning and biomass removal in a typical slash and burn rotation system in the humid tropics. *Biological Agriculture and Horticulture* 21(4) 367-381.

48. Nolte, C., Tiki-Manga, T., Badjel-Badjel, S., Gockowski, J., **Hauser, S.**, Weise, S.F. (2003) Effects of calliandra planting pattern on biomass production and nutrient accumulation in planted fallows of southern Cameroon. *Forest Ecology and Management* 179, 535-545. [pdf available](#)
49. **Hauser, S.**, Henrot, J. and Hauser, A. (2002) Maize yields in a *Mucuna pruriens* var. *utilis* and *Pueraria phaseoloides* relay fallow system on an Ultisol in southern Cameroon. *Biological Agriculture and Horticulture* 20: 243-256.
50. **Hauser, S.** (2002) Production and spatial distribution of volunteer biomass between multipurpose tree hedgerows after two years of fallow. *Agroforestry Systems* 55: 139-147. [pdf available](#)
51. **Hauser, S.** and Nolte, C. (2002) Biomass production and N fixation of five *Mucuna pruriens* varieties and their effect on maize yields in the forest zone of Cameroon. *Journal of Plant Nutrition and Soil Science* 165: 101-109. [pdf available](#)
52. Norgrove, L. and **Hauser, S.** (2002) Yield of plantain grown under different tree densities and 'slash and mulch' versus 'slash and burn' management in an agrisilvicultural system in southern Cameroon. *Field Crops Research* 78, 185-195. [pdf available](#)
53. Norgrove, L. and **Hauser, S.** (2002) Measured growth and tree biomass estimates of *Terminalia ivorensis* in the 3 years after thinning to different stand densities in an agrisilvicultural system in southern Cameroon, *Forest Ecology and Management* 166, 261-270. [pdf available](#)
54. Eggleton, P., Bignell, D.E., **Hauser, S.**, Dibog, L., Norgrove, L., Madong, B. (2002) Termite diversity across an antropogenic disturbance gradient in the humid forest zone of West Africa. *Agriculture, Ecosystems and Environment* 90, 189-202. [pdf available](#)
55. Asawalam, D.O., **Hauser, S.**, (2001) Effects of earthworm casts on crop production. *Tropical Agriculture (Trinidad)* 78: 76-81.
56. Salako, F.K., **Hauser, S.**, (2001) Influence of different fallow management systems on the stability of soil aggregates in southern Nigeria. *Communications in Soil Science and Plant Analysis* 32: 1483 – 1498.
57. Koutika, L.-S., **Hauser, S.**, Henrot, J. (2001) Soil organic matter assessment in natural regrowth, *Pueraria phaseoloides* and *Mucuna pruriens* fallow. *Soil Biology and Biochemistry* 33: 1095 - 1101. [pdf available](#)
58. Salako, F.K., **Hauser, S.**, Babalola, O., Tian, G. (2001) Improvement of the physical fertility of a degraded Alfisol with planted and natural fallows under humid tropical conditions. *Soil Use and Management* 17: 41 – 47.
59. **Hauser, S.**, Ndi, J.N. and Hulugalle, N.R. (2000) Yields of maize/cassava intercrops grown with hedgerows of three multipurpose trees on an acid Ultisol of Cameroon. *Agroforestry Systems* 49: 111-122. [pdf available](#)
60. **Hauser, S.**, Ndi, J.N. and Hulugalle, N.R. (2000) Performance of maize/cassava intercrop in tilled and no-till *Senna spectabilis* alley cropping on an Ultisol in southern Cameroon. *Agroforestry Systems* 49: 177-188. [pdf available](#)
61. **Hauser, S.** (2000) Effects of fertilizer and hot-water treatment upon establishment survival and yield of plantain (*Musa* spp AAB French). *Field Crops Research* 66: 213-223. [pdf available](#)

62. Norgrove, L., **Hauser, S.** and Weise, S.F. (2000) Response of *Chromolaena odorata* to different tree densities in a tropical agrisilvicultural system. Aboveground biomass production, partitioning, decomposition and nutrient release. *Agriculture, Ecosystems and Environment* 81: 191-207. [pdf available](#)
63. Norgrove, L. and **Hauser, S.** (2000) Leaf properties, litterfall and nutrient inputs of *Terminalia ivorensis* at different tree stand densities in a tropical timber-food crop multistrata system. *Canadian Journal of Forest Research* 30: 1400-1409. [pdf available](#)
64. Norgrove, L. and **Hauser, S.** (2000) Production and nutrient content of earthworm casts in a tropical agrisilvicultural system. *Soil Biology and Biochemistry* 32: 1651-1660.
65. Vanlauwe, B., Aihou, K., Aman, S., Tossah, B.K., Diels, J., Lyasse, O., **Hauser, S.**, Sanginga, N., Merckx, R. (2000) Nitrogen and phosphorus uptake by maize as affected by particulate organic matter quality, soil characteristics, and land use history for soils from the West African moist savanna zone. *Biology and Fertility of Soils* 30: 440-449.
66. Norgrove, L. and **Hauser, S.** (1999) Effect of surface casts upon maize yields and implications for nutrition. *Pedobiologia* 43: 720-723.
67. Norgrove, L. and **Hauser, S.** (1999) Effect of tree density and crop management upon earthworm cast production in a young timber plantation after introducing understorey crops. *Pedobiologia* 43: 666-674.
68. Salako, F.K., Babalola, O., **Hauser, S.** and Kang, B.T. (1999) Soil macroaggregate stability under different fallow management systems and cropping intensities in southwestern Nigeria. *Geoderma* 91: 103-123. [pdf available](#)
69. Dibog, L., Eggleton, P., Norgrove, L., Bignell, D.E. and **Hauser, S.** (1999) Impacts of canopy cover on soil termite assemblages in an agrisilvicultural system in southern Cameroon. *Bulletin of Entomological Research* 89: 125-132.
70. **Hauser, S.** and Asawalam, D.O. (1998) A continuous sampling technique to estimate surface cast production of the tropical earthworm *Hyperiodrilus africanus*. *Applied Soil Ecology* 10: 179-182. [pdf available](#)
71. **Hauser, S.** and Asawalam, D.O. (1998) Effects of fallow system and cropping frequency upon quantity and composition of earthworm casts. *Zeitschrift fuer Pflanzenernaehrung und Bodenkunde*, 161: 23-30.
72. **Hauser, S.** and Asawalam, D.O. and Vanlauwe, B. (1998) Spatial and temporal gradients of earthworm casting activity in alley cropping systems. *Agroforestry Systems* 41: 127-137.
73. Norgrove, L., **Hauser, S.** and Weise, S. (1998) Effects of crop density and species upon surface casting by earthworms and implications for nutrient cycling in a tropical intercropping system. *Pedobiologia*, 42: 267-277.
74. Norgrove, L. and **Hauser, S.** (1998) Effects of tree density and crop management upon growth of plantain in a low-input agrisilvicultural system. *Acta Horticulturae*, 490: 187-194.
75. Norgrove, L. and **Hauser, S.** (1998) Impact of cast collection upon earthworm cast production in a humid tropical environment. *Pedobiologia*, 42: 328-330.

76. **Hauser, S.** and Gichuru, M. P. (1994). Root distribution of *Dactyladenia (Acioa) barteri* and *Senna (Cassia) siamea* in alley cropping on Ultisol. II. Impact on water regime and consequences for experimental design. *Agroforestry Systems*, 26: 9-21.
77. **Hauser, S.** (1993). Root distribution of *Dactyladenia (Acioa) barteri* and *Senna (Cassia) siamea* in alley cropping on Ultisol. I. Implication for field experimentation. *Agroforestry Systems*, 24: 111-121.
78. **Hauser, S.** (1993). Effect of *Dactyladenia (Acioa) barteri*, *Senna (Cassia) siamea*, *Flemingia macrophylla* and *Gmelina arborea* on germination of maize seeds and cassava cuttings. *Agriculture, Ecosystems and Environment*, 45: 263-273.
79. **Hauser, S.** (1993). Distribution and activity of earthworms and contribution to nutrient recycling in alley cropping. *Biology and Fertility of Soils*, 15: 16-20.
80. Carsky, R.J., Walker, P., **Hauser, S.**, Dashiell K. and Dixon A.G.O. (1993). Response of selected crop associations to groundwater table depth in an inland valley. *Field Crops Research*, 34: 1-13.

b) Non-refereed journal articles

1. **Hauser, S.** and Böhm, W. (1984). Erfahrungen mit dem Anbau von Winterackerbohnen (Experiences in cropping winter beans) *Kali Briefe (Büntehof)* 17: 39-52.

c) Refereed book chapters

1. **Hauser Stefan**, and Norgrove Lindsey (2013) *Slash-and-Burn Agriculture, Effects of*. In: Levin S.A. (ed.) *Encyclopedia of Biodiversity*, second edition, Volume 6, pp. 551-562. Waltham, MA: Academic Press.
2. Duindam, J.W., **Hauser, S.** (2011) *Prioritizing Research Efforts to Increase On-Farm Income Generation: The Case of Cassava-Based Farmers in Peri-urban Southern Cameroon*. In: A. Bationo et al. (eds.), *Innovations as Key to the Green Revolution in Africa*. Pp 913-919.
3. Gockowski, J., J. Tonyé, J. Kotto-Same, A. Moukam, R. Nomgang, T. Tiki-Manga, **S. Hauser**, S. Weise, Z.Tchoundjeu, C. Diaw, D. Nwaga, L. Zapfack (2005). *The forest margins of Cameroon*. In: Cheryl A. Palm, Steve A. Vosti, Pedro A. Sanchez, Polly J. Ericksen (Eds.), *Slash and Burn: The Search for Alternatives*. Columbia University Press, New York.
4. **Hauser, S.**, Norgrove, L. and Nyobe, T. (2002) *Crop rotation and farming systems: Smallholder farming systems and agroforestry systems*. In R. Lal (Ed.) *Encyclopedia of Soil Science*. pp 243-246. Marcel Dekker, New York.
5. **Hauser, S.** and Norgrove, L. (2001) *Slash and Burn Agriculture, effects of*. In: S. Levin (ed.) *Encyclopedia of Biodiversity*. Vol. 5, 269-284, Academic Press, San Diego, USA.
6. Tian, G., **Hauser, S.**, Koutika, L.-S., Ishida, F., Chianu, J.N. (2001) *Pueraria phaseoloides* cover cropping for the maintenance and improvement of soil fertility. *SSSA Special Publication no. 58, Sustaining Soil Fertility in West Africa*. pp 137-155.
7. Carsky, R.J., Becker, M., **Hauser, S.** (2001) *Mucuna fallow for the maintenance and restoration of soil fertility of tropical cropping systems: Potential and limitations*. *SSSA Special Publication no. 58, Sustaining Soil Fertility in West Africa*. pp 111-135.

8. **Hauser, S.**, Vanlauwe, B., Asawalam, D.O., Norgrove, L. (1997) Role of earthworms in traditional and improved low input agricultural systems in West Africa. In L. Brussaard and R. Ferrara-Cerrato (Eds.), *Soil Ecology in Sustainable Agricultural Systems. Advances in Agroecology 1* . pp.113-136 CRC Press, Lewis Publishers, Boca Raton.
9. **Hauser S.** and Kang B.T. (1993). Nutrient dynamics, maize yield and soil organic matter in alley cropping with *Leucaena leucocephala*. In: K. Mulongoy and R. Merckx (Eds.). *Soil Organic Matter Dynamics and Sustainability of Tropical Agriculture*. J. Wiley, Chichester, U.K. pp. 215-222.
10. Brussaard, L. **Hauser, S.** and Tian, G. (1993). Soil faunal activity in relation to the sustainability of agricultural systems in the humid tropics. In: K. Mulongoy and R. Merckx (Eds.). *Soil Organic Matter Dynamics and Sustainability of Tropical Agriculture*. J. Wiley, Chichester, U.K. pp. 241-256.
11. **Hauser, S.** (1992). Estimating symbiotically fixed dinitrogen using extended N-difference methods. In: K. Mulongoy, M. Gueye and D.S.C. Spencer (Eds.). *Biological Nitrogen Fixation and Sustainability of Tropical Agriculture*. A. Wiley-Sayce Publication. pp. 309-321.

d) Book Reviews

1. **Hauser, S.** (2005) review of "Water dynamics in plant production" by W. Ehlers and M. Goss. CABI Publications, Wallingford. In *Biological Agriculture and Horticulture* 23, 219.
2. **Hauser, S.** (2003) Review of "Crop Variety Improvement and its Effect on Productivity. The Impact of International Agricultural Research". Edited by R. E. Evenson and D. Gollins. CABI Publications, Wallingford. In *Biological Agriculture and Horticulture* 22, 91-92.
3. **Hauser, S.** (2003) Review of "Natural Resources Management in African Agriculture. Understanding and Improving Current Practices." Edited by Barrett, C.B., Place, F., Aboud, A.A. CABI Publications, Wallingford. In *Biological Agriculture and Horticulture* 21, 117-118.

e) Conference proceedings

1. Mukandila P., Hell, K., **Hauser, S.**, Lamboni, L. et Masimango, J.T. Qualité des produits dérivés du manioc prélevés au niveau des sites de fabrication et dans les marchés de Kinshasa, RD Congo. Proceedings of the 11th symposium of ISTRC-AB, Oct 4-8. 2010, Kinshasa, RD Congo, pp 646-654.
2. Njukwe, E., Duindam, J., **Hauser, S.**, Maziya-Dixon, B., Amadou Thierno, D., Onadipe, O., Mbairanodji, A., Ngue-Bissa, T., Kirscht, H., Hanna, R. (2012) Development and dissemination of a manual cassava chipper in Cameroon. Proceedings of the 11th symposium of ISTRC-AB, Oct 4-8. 2010, Kinshasa, RD Congo, pp 449-452.
3. Bakelana, Z., Legg, J.P., Lema, K.M., **Hauser, S.**, Mahungu, N.M. (2012) Les facteurs déterminant l'abondance du vecteur mouche blanche (*Bemisia tabaci*, Homoptera : Aleyrodidae) et les types des virus distribués sur le manioc en R.D. Congo. Proceedings of the 11th symposium of ISTRC-AB, Oct 4-8. 2010, Kinshasa, RD Congo, pp 386-398.
4. Duindam, J., Fermont, A., **Hauser, S.** Pueraria phaseoloides fallows improve labour efficiency and productivity of cassava systems in the forest zone of Cameroon. Tropentag 2010, Zurich, Switzerland.
http://www.tropentag.de/2010/abstracts/links/Duindam_oMZddn1t.pdf.

5. Duindam, J., **Hauser, S.** Consequences of sequential leaf harvest on root yield and N export of two cassava cultivars in south-central Cameroon. Tropentag 2010, Zuerich, Switzerland. http://www.tropentag.de/2010/abstracts/links/Duindam_GGeygSkx.pdf.
6. Duindam, J. , **Hauser, S.** 2008 Optimal Herbicide Application Rate for Pueraria Fallow Reclamation: Effects on Vine Growth, Soil Cover and Weed Suppression. Tropentag 2008, 9-11 October, Hohenheim, Germany, <http://www.proceedings2008.tropentag.de>
7. Duindam, J. , **Hauser, S.** 2008 Improving Smallholder Cassava Production using New Varieties and Best Agronomic Practices on Ultisols in Southern Cameroon. Tropentag 2008, 9-11 October, Hohenheim, Germany, <http://www.proceedings2008.tropentag.de>
8. **Hauser, S.** (2007) Maize yield response to mulch, burning and insecticide application on an Ultisol. Tropentag 2007, 9-11 October, Witzenhausen, Germany, <http://www.tropentag.de/2007/abstracts/full/318.pdf>.
9. Tueche, R., **Hauser, S.**, Norgrove, L., Banful. B. (2007) Changes in soil aggregation in a plantain cropping system. Proceedings of Farming systems Design 2007. An international Symposium on Methodologies on integrated Analysis of Farm Production Systems. Held 10-12-September Catania, Sicily, Italy. Pp. 133-134. [pdf available](#)
10. Tueche, R., **Hauser, S.**, Norgrove, L., Banful. B. (2007) Effects of land history and tillage on soil physical properties in a maize cropping system. Proceedings of Farming systems Design 2007. An international Symposium on Methodologies on integrated Analysis of Farm Production Systems. Held 10-12-September Catania, Sicily, Italy. Pp. 135-136. [pdf available](#)
11. Norgrove, L., Czusdi, C., **Hauser, S.** (2007) Effects of cropping and tree density on earthworm species diversity in southern Cameroon.
12. **Hauser, S.** (2006) Biomass production, nutrient uptake and partitioning in planted *Senna spectabilis*, *Flemingia macrophylla* and *Dactyladenia barteri* fallow systems over three fallow / cropping cycles on Ultisol. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/63.pdf
13. **Hauser, S.** (2006) Groundnut / cassava / maize yields over three cycles of a fallow / crop rotation with planted *Senna spectabilis*, *Flemingia macrophylla* and *Dactyladenia barteri* on Ultisol. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/62.pdf
14. **Hauser, S.**, Njayou, M., Zapfack, L. (2006) Farmers' perception and use of planted *Calliandra calothyrsus* fallow in southern Cameroon. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/321.pdf
15. **Hauser, S.**, Ngoumbe, S.N., Nkongmeneck, B.A. (2006) Effects on species composition of glyphosate application in a plantain system after secondary forest clearing. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/324.pdf
16. **Hauser, S.** (2006) Plantain (*Musa* spp. AAB) bunch yield and root health response to combinations of physical, thermal and chemical sucker sanitation measures. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/55.pdf
17. **Hauser, S.**, Bengono, B., Bitomo, O.I. (2006) Maize yield response to *Mucuna pruriens* and *Pueraria phaseoloides* cover crop fallow and biomass burning versus mulching in farmer managed on-farm experiments. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/65.pdf

18. **Hauser, S.** (2006) Nitrogen fixation and balance in burned versus mulched *Mucuna pruriens* var. *utilis* and *Pueraria phaseoloides* relay maize cropping systems. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/64.pdf
19. **Hauser, S.** (2006) Soil temperatures during burning of large amounts of wood, effects on soil pH and subsequent maize yields. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/54.pdf
20. Dux, J., Norgrove, L., **Hauser, S.**, Wick, B., Kuehne, R. (2006) Leaf Residue Decomposition, Nutrient Release and Soil Enzyme Activity. TROPENTAG 2006, 11-13 October, Bonn, Germany. www.tropentag.de/2006/abstracts/full/351.pdf
21. Ngobo, M., Weise, S., Robiglio, V., Bakam, I., Nolte, C. and **Hauser, S.** (2005). Managing landscape mosaics at the forest-agriculture interface for improved rural livelihoods: A case study in the Congo Basin. *in* J.L. Innes, I.K. Edwards and D.J. Wilford (eds.): XXII IUFRO World Congress, 8-13 August 2005, Brisbane, Australia. "Forests in the Balance: Linking Tradition and Technology". *The International Journal of Forestry Review*. Vol. 7(5), No. 28. pp. 41-42. ISSN 1465 5489."
22. Coyne, D., Bandyopadhyay, R., Tenkouano, A., **Hauser, S.** and Gold, C.S. (2004) Current issues and trends in plantain research at IITA with emphasis on nematode problems. In: Abstract Guide for 1st International Congress on Musa: Harnessing research to improve livelihoods, Penang, Malaysia 6 July – 15 July 2004. p. 130.
23. **Hauser, S.**, Norgrove, L., Bassanaga, S. (2003) Survival and growth of cacao saplings as affected by fertilizer and shade on short fallow land in southern Cameroon. p 585-590 In: Proceedings, 13th International Fertilizer Symposium. Fertilizers in Context with Resource Management in Agriculture, Tokat Turkey. Editors C. Hera, E. Schnug, T. M. Topbas, H. Gunal, S. Ersahin. Published by International Scientific Centre of Fertilizers, Bucharest, Braunschweig, Budapest, Gent. 656 pages.
24. Norgrove, L., **Hauser, S.**, Bassanaga, S., (2003) Effects of fertilizer regime and type of shade treatment upon growth of *Ricinodendron heudelotii* (Baill.) Pierre saplings in a mixed species tree crop system. p 486-492. In: Proceedings, 13th International Fertilizer Symposium. Fertilizers in Context with Resource Management in Agriculture, Tokat Turkey. Editors C. Hera, E. Schnug, T. M. Topbas, H. Gunal, S. Ersahin. Published by International Scientific Centre of Fertilizers, Bucharest, Braunschweig, Budapest, Gent. 656 pages.
25. Weise, S.F., **Hauser, S.**, Koutika, L-S., Tchamou, N. (2002) The role of *Chromolaena odorata* in the short fallow – food crop systems of the forest margins of southern Cameroon. Proceedings of the fifth International Workshop on Biological Control and Management of *Chromolaena odorata*, Durban, South Africa, 23-25 October 2000, Zachariades, C., Muniappan, R. and Strathie, L.W. (Eds.). pp. 133.
26. Kang, B.T., **Hauser, S.**, Vanlauwe, B., Sanginga, N., Atta-Krah, A.N. (1995) Alley farming research on high base status soils. In: Kang, B.T., Larbi, A., Osiname, A.O. (Eds.), Alley Farming Research and Development. International Institute of Tropical Agriculture, Ibadan, pp. 25-39.
27. **Hauser, S.** (1994). Soil and organic matter turnover by earthworms in cropping systems of the humid-subhumid tropics. Transactions 15th ICSS, Vol. 4b, 100-101.
28. **Hauser, S.**, Vanlauwe, B., Asawalam, D.O. (1994) Role of earthworms in low input agricultural systems. Transactions 15th ICSS, Vol. 4a, 55-56.

29. **Hauser, S.** (1990). Water and nutrient dynamics under alley cropping versus monocropping in the humid-subhumid transition zone. Transaction 14th ICSS, Vol. 4, 204-209.
30. Köpke, U. and **Hauser, S.** (1986) Fababeans: N₂-fixation and effect on following winter wheat and winter barley. International Food Legume Research Conference July 7-11 1986, Spookane, Washington, USA.

f) Poster presentations

1. Hauser, S.
2. Bakelana, Z, Legg, J.P., Lema, K.M., Mahungu, N.M., **Hauser, S.** Les facteurs déterminant l'abondance du vecteur mouche blanche (*Bemisia tabaci*, Homoptera : Aleyrodidae) et les types des virus distribués sur le manioc en R.D. Congo.
3. Bakelana, Z., Lema, K.M., Legg, J.P., Mahungu, N.M., **Hauser, S.** Etude de la dynamique des populations et criblage des accessions de manioc maintenues dans le germoplasme de l'INERA pour leur résistance à la mouche blanche (*Bemisia tabaci*, Homoptera : Aleyrodidae).
4. Mfuti Kupesa, B., Lema, K.M., Hanna, R., Fotso A., **Hauser, S.** Abondance et diversité des fourmis dans les champs de manioc soumis à la méthode de l'extirpation totale des plantes hôtes sur la population de la Cochenille Africaine des Racines et Tubercules à Tshela en RD.Congo.
5. Mfuti Kupesa, B., Hanna, R., Lema, K.M., **Hauser, S.** Effets de l'extirpation totale des plantes hôtes sur la population de la Cochenille Africaine des Racines et Tubercules (CART) (*Stictococcus vayssierei* Homoptera : Stictococcidae) sur la culture du manioc à Tshela
6. **Hauser, S.**, Ngon Parh, D. and Bengono, B. Performance of plantain (*Musa* spp. AAB) and cooking banana (*Musa* spp. ABB) as food crops and as shade providers for young cocoa. International Banana conference, Mombassa, Kenya, April 2008. **(Full paper)**
7. **Hauser, S.**, Mekoa, C. and Ngo Kanga, F. The effects of burning forest biomass on the yield of the plantain (cv. Ebang, *Musa* spp. AAB, false horn) after hot-water and boiling – water treatment in southern Cameroon. International Banana conference, Mombassa, Kenya, April 2008.
8. **Hauser, S.**, Amougou, D., Ngo Kanga, F.N., Edzoa, J.-P. Effects of fallow age, fertilizer application and sucker treatment on the yield of a local false horn plantain (*Musa* spp., group AAB) cultivar. International Banana conference, Mombassa, Kenya, April 2008.
9. Duindam, J., **Hauser, S.** (2007) Intensifying cassava production in Cameroon. Exploring the potential of a pueraria-cassava fallow rotation system. TSBF meeting on green revolution. 17 to 22 September 2007, Arusha, Tanzania.
10. **Hauser, S.** (2006) Biomass production, nutrient uptake and partitioning in planted *Senna spectabilis*, *Flemingia macrophylla* and *Dactyladenia barteri* fallow systems over three fallow / cropping cycles on Ultisol. TROPENTAG 2006, 11-13 October, Bonn, Germany.
11. **Hauser, S.** (2006) Groundnut / cassava / maize yields over three cycles of a fallow / crop rotation with planted *Senna spectabilis*, *Flemingia macrophylla* and *Dactyladenia barteri* on Ultisol. TROPENTAG 2006, 11-13 October, Bonn, Germany.
12. **Hauser, S.**, Njayou, M., Zapfack, L. (2006) Farmers' perception and use of planted *Calliandra calothyrsus* fallow in southern Cameroon. TROPENTAG 2006, 11-13 October, Bonn, Germany.

13. **Hauser, S.**, Ngoumbe, S.N., Nkongmeneck, B.A. (2006) Effects on species composition of glyphosate application in a plantain system after secondary forest clearing. TROPENTAG 2006, 11-13 October, Bonn, Germany.
14. **Hauser, S.** (2006) Plantain (*Musa* spp. AAB) bunch yield and root health response to combinations of physical, thermal and chemical sucker sanitation measures. TROPENTAG 2006, 11-13 October, Bonn, Germany.
15. **Hauser, S.**, Bengono, B., Bitomo, O.I. (2006) Maize yield response to *Mucuna pruriens* and *Pueraria phaseoloides* cover crop fallow and biomass burning versus mulching in farmer managed on-farm experiments. TROPENTAG 2006, 11-13 October, Bonn, Germany.
16. **Hauser, S.** (2006) Nitrogen fixation and balance in burned versus mulched *Mucuna pruriens* var. *utilis* and *Pueraria phaseoloides* relay maize cropping systems. TROPENTAG 2006, 11-13 October, Bonn, Germany.
17. **Hauser, S.**, Mekoa, C. (2006) Invasion of plantain fields by *Chromolaena odorata*: effects of burning and mulching on biomass partitioning and nutrient uptake. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
18. **Hauser, S.**, Coyne, D., Schößer, B., Ngo Kanga, F. (2006) Nematode control in plantain: methods, costs, yield responses. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
19. **Hauser, S.**, Nkakwa, A., Mekoa, C., Amougou, D. (2006) Performance of detached-corm and corm-fragment-generated plantain compared with conventional suckers in southern Cameroon. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
20. **Hauser, S.** (2006) Integrated Pest management in Plantain: a simple nematode control measure: Boiling – water treatment. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
21. Kekeunou, S., Weise, S., Tindo, M., **Hauser, S.**, Messi, J. (2006) Fluctuation numerique du criquet puant dans les jacheres naturelles et plantees du sud Cameroun: influence de *Chromolaena odorata*. Poster presented at the 6th conference Internationale Francophone d'Entomologie, 2-6- July Rabat Morocco.
22. Ngobo, M., Weise, S., Robiglio, V., Bakam, I., Nolte, C., **Hauser, S.**, Legg, C., Tonye, J., Diaw, C., Mala, W. (2005) Managing landscape mosaics at the forest – agriculture interface for improved livelihoods: a case study in the Congo basin
23. Schößer, B., Hauser, S., Sikora, R.A. (????) Suitability of *Pueraria phaseoloides*, *Chromolaena odorata* and *Tithonia diversifolia* for nematode management in *Musa* cropping systems. Something or another at Ghent.
24. Norgrove, L., **Hauser, S.** (2002) Effects of fungicide application upon earthworm cast production in cacao systems in southern Cameroon. The 7th international Symposium on Earthworm Ecology, Cardiff, Wales, 1st to 6th September 2002.
25. Birang, a M., **Hauser, S.**, Brussaard, L. (2002) Earthworm casting activity in cropped and undisturbed *Chromolaena odorata* and young forest fallow in southern Cameroon. The 7th international Symposium on Earthworm Ecology, Cardiff, Wales, 1st to 6th September 2002.

26. Birang, a M., **Hauser, S.**, Amougou, D.L. (2002) Farmers' perception of earthworms' effects on soil fertility and crop performance. The 7th international Symposium on Earthworm Ecology, Cardiff, Wales, 1st to 6th September 2002.
27. Norgrove, L., Nkem, N.J., **Hauser, S.** (2002) Effects of residue management on earthworm cast production after *Chromolaena odorata* short fallow in the humid tropics. The 7th international Symposium on Earthworm Ecology, Cardiff, Wales, 1st to 6th September 2002.
28. Jacobsen, K., **Hauser, S.**, De Waele, D. (2002) Effect of hot-water treatment on nematode species composition and densities in plantain roots in short and long fallow systems (Center Province, Cameroun). International Symposium on Nematology, Tenerife, Spain, June 2002.
29. **Hauser, S.**, Gang, E., Norgrove, L., Birang, a M. (2002) Decomposition of plant material as indicator of ecosystem disturbance in tropical land use systems. International Conference "Disturbed Landscapes - Analysis, Modeling and Valuation". September 24-27, 2002, Brandenburg University of Technology Cottbus, Germany
30. Norgrove, L., **Hauser, S.**, Bassanga, S., Parh, D.N., Gang, E. (2002) A comparison of the performance of a leguminous tree and two Musa varieties in rehabilitation efforts in disturbed landscapes in southern Cameroon. International Conference "Disturbed Landscapes - Analysis, Modeling and Valuation". September 24-27, 2002, Brandenburg University of Technology Cottbus, Germany
31. **Hauser, S.** and Norgrove, L. (2002) Survival and growth of cacao seedlings as affected by fertilizer and shade on short fallow land in southern Cameroon. The 13th international symposium of the international scientific centre of fertilizers. June 10-13, 2002, Tokat, Turkey (Abstract published)
32. Norgrove, L. and **Hauser, S.** (2002) Effects of fertilizer regime and type of shade treatment upon growth of *Ricinodendron heudelotii* (Baill.) Pierre saplings in a mixed species tree crop system. The 13th international symposium of the international scientific centre of fertilizers. June 10-13, 2002, Tokat, Turkey (Abstract published)
33. Weise S.F., **Hauser, S.** and Palm, C. (1999) Agronomic sustainability indicators for Cameroon. American Society of Agronomy Meeting - Special Session of Alternatives to Slash-and-Burn Agriculture. Salt Lake City, November 1999. (Poster with abstract published)
34. **Hauser, S.** (1998) Effect of hot-water treatment and fertiliser on yield and root health of plantain. Poster presented at the international symposium on Banana and Plantain, Douala, Cameroon, 10-11-1998.

g) Papers presented at professional meetings

1. **Hauser, S.** (2006) Soil temperatures during burning of large amounts of wood, effects on soil pH and subsequent maize yields. Paper presented at the TROPENTAG, 11-13 October Bonn, Germany
2. Dux, J., Norgrove, L., **Hauser, S.**, Wick, B., Kuehne, R. (2006) Impact of Residue Decomposition on Soil Enzyme Activity and Nutrient Turnover. TROPENTAG 2006, 11-13 October, Bonn, Germany.
3. **Hauser, S.** (2006) Methodological issues in plantain agronomy. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.

4. **Hauser, S.**, Amougou, D. (2006) Plantain cropping systems of southern Cameroon. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
5. **Hauser, S.**, Mekoa, C., Ntsama, C., Norgrove, L. (2006) Plantain yield response to fallow age in southern Cameroon. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
6. **Hauser, S.** (2006) Growth and bunch yield response of local plantain to fertilizer application. Eighth MUSACO Steering meeting, Limbe, Cameroon, 18 – 22 September 2006.
7. **Hauser, S.**, Nolte, C. Salako, F.K. (2000) The effects of tree fallows on soil properties and food crop yields in sub-saharan West Africa. *Symposium on Sustaining Soil Fertility in West Africa (organised by Division 6, ASA, and IITA to be held at ASA's year 2000 annual meeting in Minneapolis, Nov. 5-9)*
8. Nolte, C., **Hauser, S.** (2000) Natural fallows in the humid forest zone of West and Central Africa: their biomass production, nutrient accumulation, and nutrient budget. *Symposium on Sustaining Soil Fertility in West Africa (organised by Division 6, ASA, and IITA to be held at ASA's year 2000 annual meeting in Minneapolis, Nov. 5-9)*
9. **Hauser, S.** (1999) Technical constraints and opportunities for establishment of smallholder cocoa systems in deforested land. Paper presented at the Sustainable Tree Crop Development Forum - Strengthening Africa's Competitive Position in Global Markets. Washington D.C., October 1999.
10. **Hauser, S.** (1998) IITA's ecoregional approach towards identifying, prioritizing and solving the food security problems in West and Central Africa. Paper presented at a workshop between World Vision International (WVI) and ICRAF, October 5-8, 1998, Nairobi, Kenya.
11. **Hauser, S.**, Norgrove, L., Weise, S. F. (1995) Agroforestry: the need for conceptual clarity. Keynote presentation at Regional Symposium on Agroforestry Research and Development in the Humid Lowlands of West and Central Africa. 4-8 December 1995, Yaoundé, Cameroon.
12. **Hauser, S.**, Vanlauwe, B. and Asawalam, D.O. (1994) Role of earthworms in low input agricultural systems. Invited paper presented at the 15th ICSS Acapulco, Mexico.
13. Gichuru, P.M., Kang, B.T. and **Hauser, S.** (1990). Alley cropping with *Dactyadenia (Acioa) barteri*, *Senna (Cassia) siamea*, *Flemingia macrophylla* and *Gmelina arborea* on acid Ultisol. Paper presented at the American Society of Agronomy Annual Meeting, San Antonio, Texas, USA, Oct. 21-26.
14. **Hauser, S.** (1986). Ackerbohnen: Stickstoffaufnahme und Stickstoffverteilung. (Faba beans: Nitrogen uptake and nitrogen distribution). Paper presented at the annual meeting of the Society of Agronomy, Vienna, Austria.
15. **Hauser, S.** and Köpke, U. (1985). Untersuchungen zur Stickstoff-Fixierung von Ackerbohnen mit einer erweiterten Differenzmethode. (Investigation of dinitrogen fixation of faba beans using extended difference methods). Paper presented at the annual meeting of the Society of Agronomy, Göttingen, Germany.
16. Köpke, U. and **Hauser, S.** (1985). Untersuchungen zum Vorfruchtwert von Ackerbohnen (Investigation on the value of faba beans as preceding crop). Paper presented at the annual meeting of the Society of Agronomy, Göttingen, Germany.

h) Reports

1. **Hauser, S.** (2010) Pre-Final report for March 2007 to October 2010 on activities of the IITA-led Agricultural Component in: Projet 9 ACP ZR 13/1 (GCP/DRC/036/EC selon codification FAO) – Programme de Réhabilitation de la Recherche Agricole et Forestière en République Démocratique du Congo.
2. **Hauser, S.** (2008) Annual report for January to June 2008 on activities of the IITA led Agricultural component in: Projet 9 ACP ZR 13/1 (GCP/DRC/036/EC selon codification FAO) – Programme de Réhabilitation de la Recherche Agricole et Forestière en République Démocratique du Congo.
3. **Hauser, S.** (2007) Annual report for 2007 on activities of the IITA led Agricultural component in: Projet 9 ACP ZR 13/1 (GCP/DRC/036/EC selon codification FAO) – Programme de Réhabilitation de la Recherche Agricole et Forestière en République Démocratique du Congo.
4. **Hauser, S.**, K. Sonder, G. Binsika Bi Mayala, M.M. Mafuka, K.M. Lema, D.Coyne, P. Van Asten, J. Legg, S.Abele, A. Alene, R. Hanna, S. Ajala, R. Abaidoo, I. Ingelbrecht, A. Dixon, L. Sanni, S. Winter, B. Kadiata, M. Janssens (2007) Programme Prioritaire de Recherche Agricole. For Projet 9 ACP ZR 13/1 (GCP/DRC/036/EC selon codification FAO) – Programme de Réhabilitation de la Recherche Agricole et Forestière en République Démocratique du Congo.
5. **Hauser, S.** and Vielhauer, K. (1995). Impact of fallow management and cropping intensity on water and nutrient dynamics of a tropical Alfisol. Report on a joint IITA / GTZ / IAT project conducted at Ibadan, Nigeria. April 1992 to March 1995.
6. Kotto-Same, J., Moukam, A., Njomgang, R., Tiki-Manga, T., Tonye, J., Gockowski, J., **Hauser, S.**, Weise, S., Nwaga, D., Zapfack, L., Palm, C., Woomer, P., Gillison, A., Bignell, D., Tondoh, J. (2000) Alternatives to Slash-And-Burn. Summary report and synthesis of phase II in Cameroon.