

List of publications

Peer-reviewed papers:	69
Books, chapters, reviews:	12
Non-reviewed papers:	25
Talks and posters:	122
Theses:	5

Peer-reviewed papers

- 69 Dogbo SF, Salako KV, Agoundé G, Dimobe K, Adiko AEG, **Gebauer J**, Yao CYA, Kakaï RG 2025 Potential impacts of future climate on twelve key multipurpose tree species in Benin: Insights from species distribution modeling for biodiversity conservation, *Trees, Forests and People* 19 <https://doi.org/10.1016/j.tfp.2024.100744>
- 68 Dogbo SF, Salako KV, Mensah S, Akakpo DMA, Assogbadjo AE, **Gebauer J**, Kakaï RG, Yao CYA 2024 Vegetation attributes in peri-urban agroforestry systems and their socio-economic determinants in Benin (West Africa). *Agroforestry Systems* 98:3269-3286
- 67 Vihotogbé R, Sossa-Vihotogbé CNA, Avocèvou-Ayisso C, Assogbadjo AE, Akissoé NH, **Gebauer J**, Sinsin B 2023 Ethnobotanical and biochemical data bring no evidence to clarify the biosystematics of *Irvingia gabonensis* and *I. wombolu* (Irvingiaceae): a review. *Journal of Food and Nutrition Research* 11:13-24
- 66 Jansen L, Wichern F, **Gebauer J** 2021 Effect of different mechanical seed scarification methods on germination and emergence dynamics of baobab (*Adansonia digitata* L.). *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 122:183-192
- 65 Orina J, Mukundi JB, Adimo AO, Rimberia FK, Omondi MA, **Gebauer J**, Kehlenbeck K 2020 Baobab (*Adansonia digitata* L.) population structure across different agro-ecological zones in Coastal and lower Eastern Kenya. *Forests, Trees and Livelihoods* 30:13-27
- 64 Jansen L, Darr D, Hansohm N, **Gebauer J**, Meinhold K, Munthali CRY, Wichern F 2020 Variation in baobab (*Adansonia digitata* L.) root tuber development and leaf number among different growth conditions for five provenances in Malawi. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 121:161-172
- 63 Omondi M, Rimberia FK, Wainaina CM, Mukundi JBN, Orina J, **Gebauer J**, Kehlenbeck K 2019 Fruit morphological diversity and productivity of baobab (*Adansonia digitata* L.) in coastal and lower eastern Kenya. *Forests, Trees and Livelihoods* 28:266-280
- 62 Houehanou TH, Prinz K, Hellwig F, Assogbadjo AE, **Gebauer J**, Kakaï RLG, Sinsin B 2019 Morphological trait variations and relationships of *Azelia africana* Sm. caused by climatic conditions and anthropogenic disturbance in Benin (West Africa). *Genetic Resources and Crop Evolution* 66:1091-1105
- 61 Vihotogbé R, Idohou R, **Gebauer J**, Sinsin B, Peterson T 2019 Estimation of cultivable areas for *Irvingia gabonensis* and *I. wombolu* (Irvingiaceae) in Dahomey-Gap (West Africa). *Agroforestry Systems* 93:973-946
- 60 Whitney CW, Luedeling E, Hensel O, Tabuti JRW, Krawinkel M, **Gebauer J**, Kehlenbeck K 2018 The role of homegardens for food and nutrition security in Uganda. *Human Ecology* 46:497-514
- 59 Whitney CW, Bahati J, **Gebauer J** 2018 Ethnobotany and agrobiodiversity; valuation of plants in the homegardens of southwestern Uganda. *Ethnobiology Letters* 9:90-100
- 58 Whitney CW, Luedeling E, Tabuti JRS, Nyamukuru A, Hensel O, **Gebauer J**, Kehlenbeck K 2018 Crop diversity in homegardens of southwest Uganda and its importance for rural livelihoods. *Agriculture and Human Values* 35:399-424
- 57 Vihotogbé R, Watson C, Kakaï RG, Wichern F, Sinsin B, **Gebauer J** 2017 Effects of salinity on seedling emergence and early seedling growth of *Irvingia gabonensis* (Irvingiaceae). *Seed Sciences and Technology* 45:1-14
- 56 Whitney CW, Tabuti JRS, Hensel O, Yeh C-H, **Gebauer J**, Luedeling E 2017 Homegardens and the future of food and nutrition security in southwest Uganda. *Agricultural Systems* 154:133-144

- 55 **Gebauer J**, Whitney CW, Tabuti JRS 2016 First record of baobab (*Adansonia digitata* L.) in Uganda. Genetic Resources and Crop Evolution 63:755-762
- 54 **Gebauer J**, Adam YO, Cuní Sanchez A, Darr D, Eltahir MES, Fadl KEM, Fernsebner G, Frei M, Habte T-Y, Hammer K, Hunsche M, Johnson H, Kordofani M, Krawinkel M, Kugler F, Luedeling E, Mahmoud TE, Maina A, Mithöfer D, Munthali CRY, Noga F, North R, Owino WO, Prinz K, Rimberia FK, Saied A, Schüring M, Sennhenn A, Späth MA, Taha MEN, Triebel A, Wichern F, Wiehle M, Wrage-Mönnig N, Kehlenbeck K 2016 Africa's wooden elephant: the baobab tree (*Adansonia digitata* L.) in Sudan and Kenya: a review. Genetic Resources and Crop Evolution 63:377-399
- 53 Luedeling E, Blanke M, **Gebauer J** 2015 Chilling challenges in a warming world. Acta Horticulturae 1099: 901-907
- 52 Goenster S, Wiehle M, **Gebauer J**, Ali AM, Stern R D, Buerkert A 2015 Daily rainfall data to identify trends in rainfall amount and rainfall-induced agricultural events in the Nuba Mountains of Sudan. Journal of Arid Environments 122:16-26
- 51 Achigan-Dako EG, Tchokponhoué DA, N'Danikou S, **Gebauer J**, Vodouhè RS 2015 Current knowledge and breeding perspectives for the miracle plant *Synsepalum dulcificum* (Schum. et Thonn.) Daniell. Genetic Resources and Crop Evolution 62:465-476
- 50 Sohail M, Saied AS, **Gebauer J**, Buerkert A 2015 Seed dormancy alleviation of *Grewia tenax* (Forssk.) Fiori: a wild fruit tree species of Pakistan. Pakistan Journal of Botany 47:417-420
- 49 Goenster S, Wiehle M, Predotova M, **Gebauer J**, Ali AM, Buerkert A 2014 Gaseous carbon and nitrogen emissions of homegardens in the Nuba Mountains, Sudan. Journal of Plant Nutrition and Soil Science, 178:413-424
- 48 Goenster S, Wiehle M, Predotova M, **Gebauer J**, Ali A M, Buerkert A 2014 Carbon and nutrient fluxes and balances in Nuba Mountains homegardens, Sudan. Nutrient Cycling in Agroecosystems 100:35-51
- 47 Wiehle M, Prinz K, Kehlenbeck K, Goenster S, Mohamed S A, Buerkert A, **Gebauer J** 2014 The role of homegardens and forest ecosystems for domestication and conservation of *Ziziphus spina-christi* (L.) Willd. in the Nuba Mountains, Sudan. Genetic Resources and Crop Evolution 61:1491-1506
- 46 Wiehle M, Prinz K, Kehlenbeck K, Goenster S, Mohamed S A, Finkeldey R, Buerkert A, **Gebauer J** 2014 The African baobab (*Adansonia digitata* L.) – genetic resources in neglected populations of the Nuba Mountains, Sudan. American Journal of Botany 101:1498-1507
- 45 Wiehle M, Goenster S, **Gebauer J**, Mohamed S A, Buerkert A, Kehlenbeck K 2014 Effects of transformation processes on plant species diversity in homegardens of the Nuba Mountains, Sudan. Agroforestry Systems 88:539-562
- 44 N'Danikou S, Achigan-Dako EG, Tchokponhoué DA, Komlan FA, **Gebauer J**, Vodouhè RS, Ahanchédé A 2014 Enhancing germination and seedling growth in *Vitex doniana* Sweet for horticultural prospects and conservation of genetic resources. Fruits 69:279-291
- 43 **Gebauer J**, Assem A, Busch E, Hardtmann S, Möckel D, Krebs F, Ziegler T, Wichern F, Wiehle M, Kehlenbeck K 2014 Der Baobab (*Adansonia digitata* L.): Wildobst aus Afrika für Deutschland und Europa?! Erwerbs-Obstbau 56:9-24
- 42 Sennhenn A, Prinz K, **Gebauer J**, Whitbread A, Jamnadass R, Kehlenbeck K 2014 Identification of mango (*Mangifera indica* L.) landraces from Eastern and Central Kenya using a morphological and molecular approach. Genetic Resources and Crop Evolution 61:7-22
- 41 **Gebauer J**, Bernholt H, Hammer K 2013 *Grewia flavescens*: a potential horticultural crop? Genetic Resources and Crop Evolution 60:1915-1919
- 40 **Gebauer J**, Luedeling E 2013 A note on baobab (*Adansonia digitata* L.) in Kordofan, Sudan. Genetic Resources and Crop Evolution 60:1587-1596
- 39 Whitney C W, **Gebauer J**, Anderson M 2012 A survey of wild collection and cultivation of indigenous species in Iceland. Human Ecology 40:781-787
- 38 Goenster S, Wiehle M, Kehlenbeck K, Jamnadass R, **Gebauer J**, Buerkert A 2011 Indigenous fruit trees in homegardens of the Nuba Mountains, Central Sudan: tree diversity and potential for improving nutrition and income of rural communities. Acta Horticulturae 911:355-364
- 37 Abdalla S A, Predotova M, **Gebauer J**, Buerkert A 2012 Horizontal nutrient flows and balances in irrigated urban gardens of Khartoum, Sudan. Nutrient Cycling in Agroecosystems 92:119-132
- 36 Predotova M, Kretschmann R, **Gebauer J**, Buerkert A 2011 Effects of cuvette surface material on ammonia-, nitrous oxide-, carbon dioxide-, and methane-concentration measurements. Journal of Plant Nutrition and Soil

Science 174:347-349

- 35 Buerkert A, Jahn H, Golombek S D, Al Rawahi M N, **Gebauer J** 2010 Carbon and nitrogen emissions from stored manure and cropped fields in irrigated mountain oases of Oman. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 111:55-63
- 34 Hunsche M, Buerling K, Saied A S, Schmitz-Eiberger M, Kundi S, **Gebauer J**, Noga G, Buerkert A 2010 Surface properties, chlorophyll fluorescence and light remission, and cellular compounds of *Grewia tenax* (Forssk.) Fiori and *Tamarindus indica* L. leaves as affected by NaCl treatments. *Plant Growth Regulation* 61:253-263
- 33 Thompson JL, **Gebauer J**, Hammer K, Buerkert A 2010 The structure of urban and peri-urban gardens in Khartoum, Sudan. *Genetic Resources and Crop Evolution* 57:478-500
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- 31 Predotova M, **Gebauer J**, Diogo R C V, Schlecht E, Buerkert A 2010 Emissions of ammonia, nitrous oxide and carbon dioxide from urban gardens in Niamey, Niger. *Field Crops Research* 115:1-8
- 30 Saied A, Sohail M, **Gebauer J**, Buerkert A 2010 Response of *Grewia tenax* (Forssk.) Fiori to NaCl-induced salinity. *European Journal of Horticultural Science* 75:42-50
- 29 Sohail M, Saied A, **Gebauer J**, Buerkert A 2009 Effect of NaCl salinity on growth and mineral composition of *Ziziphus spina-christii* (L.) Willd. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 110:107-114
- 28 **Gebauer J**, Luedeling E, Hammer K, Buerkert A 2009 Agro-horticultural biodiversity in mountain oases of northern Oman. *Acta Horticulturae* 817:325-332
- 27 Luedeling E, Blanke M, **Gebauer J** 2009 Auswirkungen des Klimawandels auf die Verfügbarkeit von Kältewirkung (Chilling) für Obstgehölze in Deutschland. *Erwerbs-Obstbau* 51:81-94
- 26 Bernholt H, Kehlenbeck K, **Gebauer J**, Buerkert A 2009 Plant species richness and diversity in urban and peri-urban gardens of Niamey, Niger. *Agroforestry Systems* 77:159-179
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- 24 Hammer K, **Gebauer J**, Al Khanjari S, Buerkert A 2009 Oman at the cross-roads of inter-regional exchange of cultivated plants. *Genetic Resources and Crop Evolution* 56:547-560
- 23 Schumacher J, Luedeling E, **Gebauer J**, Saied A, El-Siddig K, Buerkert A 2009 Spatial expansion and water requirements of urban agriculture in Khartoum, Sudan. *Journal of Arid Environments* 73:399-406
- 22 Saied A, **Gebauer J**, Hammer K, Buerkert A 2008 *Ziziphus spina-christi* (L.) Willd.: a multipurpose fruit tree. *Genetic Resources and Crop Evolution* 55:929-937
- 21 Saied A, **Gebauer J**, Buerkert A 2008 Effects of different scarification methods on germination of *Ziziphus spina-christi* (L.) Willd. seeds. *Seed Science and Technology* 1:201-205
- 20 **Gebauer J**, Patzelt A, Hammer K, Buerkert A 2007 First record of *Grewia tenax* (Forssk.) Fiori in northern Oman, a valuable fruit producing shrub. *Genetic Resources and Crop Evolution* 54:1153-1158
- 19 **Gebauer J**, Luedeling E, Hammer K, Nagieb M, Buerkert A 2007 Mountain oases in northern Oman: an environment for evolution and *in situ* conservation of plant genetic resources. *Genetic Resources and Crop Evolution* 54:465-481
- 18 **Gebauer J**, El-Siddig K, El-Tahir B A, Salih A A, Ebert G, Hammer K 2007 Exploiting the potential of indigenous fruit trees: *Grewia tenax* in Sudan. *Genetic Resources and Crop Evolution* 54:1701-1708
- 17 Golombek S D, **Gebauer J**, Buerkert A 2007 Photosynthetic water use efficiency of irrigated winter and summer crops in a typical mountain oasis of northern Oman. *Journal of Plant Nutrition and Soil Science* 170:98-105
- 16 **Gebauer J**, Nagieb M, Buerkert A 2006 Obstbau in einer Bergoase im Norden Omans. *Erwerbs-Obstbau* 48:9-16
- 15 Fadl KEM, **Gebauer J** 2006 Effect of time and intensity of tapping on gum yield of *Acacia seyal* var. *seyal* in South Kordofan, Sudan. *Forests, Trees and Livelihoods* 16:219-225
- 14 **Gebauer J** 2005 Plant species diversity of home gardens in El Obeid, Central Sudan. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 106:97-103

- 13 Fadl KEM, **Gebauer J** 2005 Growth and yield of groundnut, millet and sesame alley-cropped with *Acacia senegal* in North and South Kordofan, Sudan. Tropical Agriculture (Trinidad) 82:225-229
- 12 **Gebauer J**, Osman OA 2004 Obstbau im Sudan – unter Berücksichtigung von Wildobst. Erwerbs-Obstbau 46:110-116
- 11 Fadl KEF, **Gebauer J** 2004 Crop performance and yield of groundnut, sesame and roselle in an agroforestry cropping system with *Acacia senegal* in North Kordofan (Sudan). Journal of Agriculture and Rural Development in the Tropics and Subtropics 105:149-154
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- 8 **Gebauer J**, El Siddig K, Salih AA, Ebert G 2004 *Tamarindus indica* L. seedlings are moderately salt tolerant when exposed to NaCl-induced salinity. Scientia Horticulturae 103:1-8
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- 6 **Gebauer J**, El-Siddig K, Salih AA, Ebert G 2003 Effect of different levels of NaCl-induced salinity on growth, photosynthesis, leaf chlorophyll concentration and ion distribution of *Adansonia digitata* L. seedlings. Journal of Applied Botany 77:103-107
- 5 **Gebauer J**, El-Siddig K, Ebert G 2002 Baobab (*Adansonia digitata* L.): a review on a multipurpose tree with promising future in the Sudan. European Journal of Horticultural Science 4:155-160
- 4 **Gebauer J** 2002 Effects of different nitrogen contents in wheat leaves on the food choice and feeding activity of the grey field slug, *Deroceras reticulatum* (Müller) under laboratory conditions. Journal of Plant Diseases and Protection 4:421-429
- 3 **Gebauer J** 2002 Survival and food choice of the grey field slug (*Deroceras reticulatum*) on three different seed types under laboratory conditions. Journal of Pest Science 1:1-5
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- 1 **Gebauer J**, Ebert G, Büttner C 2001 Birnengitterrost – eine zunehmende Gefahr in unseren Kleingärten. Gesunde Pflanzen 2:44-47

Books, chapters, reviews

- 12 Dietrich D, William KD, Gebauer J, Kasulo V, Kleinke M, Meinhold K, Munthali C, Wichern W 2022 The potential of non-timber forest products to contribute to the bioeconomy transition: the example of baobab (*Adansonia digitata* L.) in Malawi. In: Smith-Hall C et al. (eds.), The bioeconomy and non-timber forest products – theory and empirical advances. Routledge, 148-163
- 11 Hansohm N, Jansen L, Mandala K, Kandiado P, Meinhold K, Darr D, Wichern F, **Gebauer J** 2020 Instruction Manual of Baobab Cultivation – Based on Experiences in Mangochi, Malawi, OPUS Publication Server of the Rhine-Waal University of Applied Sciences, 1-21. URN: urn:nbn:de:hbz:1383-opus4-5859
- 10 Whitney CW, Huth A, Hammer K, Kehlenbeck K, **Gebauer J** 2020 Field Guide to Common Homegarden Crops of Southwestern Uganda. OPUS Publication Server of the Rhine-Waal University of Applied Sciences, 1-80. URN: urn:nbn:de:hbz:1383-opus4-4510
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- 8 **Gebauer J** 2016 Blumen sagen mehr als tausend Worte. Essay im Ausstellungskatalog zur Ausstellung Lasst Blumen sprechen. Blumen und künstliche Natur seit 1960 im Museum Schloss Moyland, Wienand Verlag, 190-195
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- 3 **Gebauer J**, Al Khanjari S, Buerkert A, Hammer K 2010 Plant genetic resources in Oman – evidence for millenia of cultural exchange in the Middle East. In: Buerkert A and Schlecht E (eds.), Oasis of Oman – Livelihood Systems at the Crossroads. Al Roya Press and Publishing House, Muscat, Sultanate of Oman, 22-25
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Non-reviewed papers

- 25 Darr B, **Gebauer J** 2021 Vielseitige Bildungschancen im Nutzgarten für Kinder. Kita-Fachtexte, 1-22, <https://www.kita-fachtexte.de/de/fachtexte-finden/vielseitige-bildungschancen-im-nutzgarten-fuer-kinder>
- 24 Schweikart J, Hofmann U, Bolanz K, Meinhold K, **Gebauer J** 2020 Monitoring einer Baobab-Population in Nord-Kordofan, Sudan. zfv – Zeitschrift für Geodäsie, Geoinformation und Landmanagement 5:312-318
- 23 Meinhold K, Kehlenbeck K, Mithöfer D, **Gebauer J**, Habte T-Y, Maina A, Darr D 2018 Der Baobab-Baum und sein Beitrag zur Ernährungssicherung in Ostafrika: Das BAOFOOD-Projekt. Ernährung im Fokus 9-10:313-317
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- 20 Meinhold K, Adam YO, Chimuleke M, Evang E, **Gebauer J**, Habte T-Y, Kehlenbeck K, Krawinkel M, Kugler F, Mahmoud TE, bugua NJ, Mithöfer D, Muendo KM, Njiru AM, Owino WO, Rimberia FK, Sanjak EA, Schüring M, Siddig ME, Stevens A, Taha MEN, Triebel A, Darr D 2016 The BAOFOOD project: enhancing local food security and nutrition in Eastern Africa with the baobab tree. A full paper online publication of the Conference on International Agricultural Research for Development, 1-6, <http://www.tropentag.de/2016/abstracts/full/1166.pdf>
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- 10 **Gebauer J**, Ebert G 2005 Comparison of the salt tolerance of the two under-utilised species, baobab (*Adansonia digitata* L.) and tamarind (*Tamarindus indica* L.). A full paper online publication of the Conference on International Agricultural Research for Development, 1-4, <http://www.tropentag.de/2005/abstracts/full/43.pdf>
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