

C. Scherber

List of peer-reviewed publications [6 June 2015]

Key facts

56 peer-reviewed publications; 4 publications highlighted by FACULTY of 1000; c. 80 other publications, > 1100 citations. Covered in >50 newspaper articles, magazines and other media.

Five most important publications

1. **Scherber C**, Gladbach DJ, Stevnbak K, Karsten RJ, Schmidt IK, Michelsen A, Albert KR, Larsen KS, Mikkelsen TN, Beier C, Christensen S (2013) Multi-factor climate change effects on insect herbivore performance. *Ecology and Evolution* 3: 1449–1460. Highlighted by FACULTY of 1000.
2. **Scherber C**, Crawley MJ, Porembski S (2003) The effects of herbivory and competition on the invasive alien plant *Senecio inaequidens* (Asteraceae). *Diversity and Distributions* 9: 415-426.
3. **Scherber C et al.** (2010) Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. *Nature* 468:553-556. Highlighted by FACULTY of 1000.
4. **Scherber C**, Heimann J, Köhler G, Mitschunas N, Weisser WW (2010) Functional identity versus species richness: herbivory resistance in plant communities. *Oecologia* 163:707-717
5. Stevnbak K[§], **Scherber C^{§*}**, Gladbach D, Beyer C, Mikkelsen TN & S. Christensen (2012) Interactions between above- and belowground organisms modified in climate change experiments. *Nature Climate Change* 2: 805-808. Highlighted by FACULTY of 1000.

notes: [§]equal contributions; ^{*}corresponding author.

Complete list of peer-reviewed publications (in reverse chronological order)**2015**

- [56] Beduschi T, Tschardtke T, **Scherber C** (2015) Using multi-level generalized path analysis to understand herbivore and parasitoid dynamics in changing landscapes. [Landscape Ecology](#) (in press)
- [55] Rösch V, Tschardtke T, **Scherber C** & Batary P (2015) Biodiversity conservation across taxa and landscapes requires many small as well as single large habitat fragments. [Oecologia](#) (in press)
- [54] Kormann U, Rösch V, Batary P, Tschardtke T, Orci KM, Samu F, **Scherber C** (2015) Local and landscape management affects trait-mediated biodiversity of nine taxa on small grassland fragments. [Diversity and Distributions](#) (published online 20 March 2015), DOI: <http://dx.doi.org/10.1111/ddi.12324>

2014

- [53] Ebeling A, Meyer ST, Abbas M, Eisenhauer N, Hillebrand H, Lange M, **Scherber C**, Vogel A, Weigelt A, Weisser WW (2014) Plant diversity impacts decomposition and herbivory via changes in aboveground arthropods. [PLoS One](#) 9(9): e106529.
- [52] Batary P, Fronczek S, Normann C, **Scherber C**, Tschardtke T (2014) How do edge effect and tree species diversity affect bird diversity and avian nest survival in Germany 's largest deciduous forest? [Forest Ecology and Management](#) 319: 44-50.
- [51] Steckel J, Westphal C, Peters MK, Bellach M, Rothenwöhler C, Erasmi S, **Scherber C** et al. (2014) Landscape composition and configuration differently affect trap-nesting bee and wasp hosts and their antagonists. [Biological Conservation](#) 172: 56-64.
- [50] Pfeifer M, Lefebvre V, Baeten L, Banks-Leite C, Betts M, Brunet J, Cerezo A, Cisneros L, Coomes D, D'Cruze N, Duguay S, Eigenbrod F, Hadley A, Hanson TR, Hawes J, Heartsill T, Klingbeil B, Kolb A, Kormann U, Lachat T, Lantschner V, Laurance B, Lens L, Lugo A, Marsh C, Medina-Rangel G.F., Melles S, Mezger D, Owen C, Phalan B, Pidgeon A, Possingham H, Raheem D, Ribeiro DB, Robinson D, Robinson R, Rytwinski T, **Scherber C**, Slade E, Somarriba E, Stouffer P, Struebig MJ, Tylianakis J, Tschardtke T, Urbina Cardona JN, Vasconcelos H, Wells K, Willig M, Wood E, Young RP, Bradley A, Ewers R (2014) BIOFRAG – A new database for analysing BIOdiversity responses to forest FRAGmentation. [Ecology and Evolution](#) 4: 1524-1537.
- [49] Liu Y, Rothenwöhler C, **Scherber C**, Batary P, Elek Z, Steckel J, Erasmi S, Tschardtke , Westphal C (2014) Functional beetle diversity in managed grasslands: effects of region, landscape context and land use intensity. [Landscape Ecology](#) 29: 529-540.

- [48] Everwand G, Rösch V, Tschardtke T & **Scherber C** (2014) Disentangling direct and indirect effects of experimental grassland management and plant functional-group manipulation on plant and leafhopper diversity. *BMC Ecology* 14:1
- [47] **Scherber C**, Vockenhuber E, Stark A, Meyer H, Tschardtke T (2014) Effects of tree and herb biodiversity on Diptera, a hyperdiverse insect order. *Oecologia* 174: 1387-1400.

2013

- [46] Allan E, Bossdorf O, Dormann CF, Prati D, Gossner M, Tschardtke T, Blüthgen N, Bellach M, Birkhofer K, Boch S, Böhm S, Börschig C, Chatzinotas A, Christ S, Daniel R, Diekötter D, Fischer C, Friedl T, Glaser K, Hallman C, Hodac L, Hölzel N, Jung K, Klein AM, Klaus V, Kleinebecker T, Krauss J, Lange M, Morris EK, Müller J, Nacke H, Pašalic EK, Rillig M, Rothenwöhler C, Schall P, **Scherber C**, *et al.* (2013) Inter-annual variation in land-use intensity enhances grassland multidiversity. *Proceedings of the National Academy of Sciences of the United States of America* 111: 308-313.
- [45] **Scherber C**, Gladbach DJ, Stevnbak K, Karsten RJ, Schmidt IK, Michelsen A, Albert KR, Larsen KS, Mikkelsen TN, Beier C, Christensen S (2013) Multi-factor climate change effects on insect herbivore performance. *Ecology and Evolution* 3: 1449–1460. Highlighted by FACULTY of 1000.
- [44] Rösch V, Tschardtke T, **Scherber C**, Batáry P (2013) Landscape composition, connectivity and fragment size drive effects of grassland fragmentation on insect communities. *Journal of Applied Ecology* 50: 387-394
- [43] Rothenwöhler C, **Scherber C**, Tschardtke T (2013) Grassland management for stem-boring insects: Abandoning small patches is better than reducing overall intensity. *Agriculture, Ecosystems and Environment* 167: 38–42
- [42] Everwand G, **Scherber C**, Tschardtke T (2013) Slug responses to grassland cutting and fertilization in a plant functional group removal experiment. *Acta Oecologica* 48: 62–68.
- [41] Seidel D, Leuschner C, **Scherber C**, Beyer F, Wommelsdorf T, Cashmand MJ, Fehrmann L (2013) The relationship between tree species richness, canopy space exploration and productivity in a temperate broad-leaf mixed forest. *Forest Ecology and Management* 310: 366–374.
- [40] Vockenhuber E, Kabouw P, Tschardtke T, **Scherber C** (2013) Plant-animal interactions in two forest herbs along a tree and herb diversity gradient. *Plant Ecology and Diversity* 6: 205-216.
- [39] Milcu A, Allan E, Roscher C, Jenkins T, Bessler H, Buchmann N, Buscot F, Engels C, Flynn D, Gubsch M, Lipowsky A, Renker C, **Scherber C**, Schmid B, Schulze E.D., Thebault E, Weigelt A, Weisser W.W., Scheu S & Eisenhauer N (2013) Functionally and phylogenetically diverse plant communities key to soil biota. *Ecology* 94:1878–1885.
- [38] Allan E, Weisser W, Fischer M, Schulze E, Weigelt A, Roscher C, Baade J, Barnard RL, Beßler H, Buchmann N, Ebeling A, Eisenhauer N, Engels C, Fergus AJF, Gleixner G, Gubsch M, Halle S, Klein AM, Kertscher I, Kuu A, Lange M, Le Roux X, Meyer S, Migunova VD, Milcu A, Niklaus PA, Oelmann

Y, Pašalić E, Petermann JS, Poly F, Rottstock T, Sabais A, **Scherber C** *et al.* (2013) A comparison of the strength of biodiversity effects across multiple functions. [Oecologia](#) 173: 223-237.

2012

- [37] Stevnbak K[§], **Scherber C^{§*}**, Gladbach D, Beyer C, Mikkelsen TN & S. Christensen (2012) Interactions between above- and belowground organisms modified in climate change experiments. [Nature Climate Change](#) 2: 805–808. Highlighted by FACULTY of 1000. [[§]equal contributions; *corresponding author]
- [36] Brown G, **Scherber C**, Ramos P, Ebrahim EK (2012) The effects of harvester ant (*Messor ebinus* Forel) nests on vegetation and soil properties in a desert dwarf shrub community in north-eastern Arabia. [Flora](#) 207: 503–511.
- [35] Gagic V, Hänke S, Thies C, **Scherber C**, Tomanovic Z, Tschardt T (2012) Agricultural intensification and cereal aphid–parasitoid–hyperparasitoid food webs: network complexity, temporal variability and parasitism rates. [Oecologia](#) 170: 1099–109.
- [34] Hudewenz A, Klein AM, **Scherber C**, Stanke L, Tschardt T, Vogel A, Weigelt A, Weisser WW, Ebeling A (2012) Herbivore and pollinator responses to grassland management intensity along experimental changes in plant species richness. [Biological Conservation](#) 150: 42–52.
- [33] Ludwig M, Schlinkert H, Holzschuh A, Fischer C, **Scherber C**, Trnka A, Tschardt T, Batáry P (2012) Landscape-moderated bird nest predation in hedges and forest edges. [Acta Oecologica](#) 45: 50–56.
- [32] Blüthgen N, Dormann CF, Prati D, Klaus VH, Kleinebecker T, Hölzel N, Alt F, Boch S, Gockel S, Hemp A, Müller J, Nieschulze J, Renner SC, Schöning I, Schumacher U, Socher SA, Wells K, Birkhofer K, Buscot F, Oelmann Y, Rothenwöhrer C, **Scherber C** et al. (2012) A quantitative index of land-use intensity in grasslands: integrating mowing, grazing and fertilization. [Basic and Applied Ecology](#) 13: 207–220.
- [31] Tschardt T, Tylianakis J, Rand T, Didham R, Fahrig L, Batáry P, Bengtsson J, Clough Y, Crist T, Dormann C, Ewers R, Holt R, Holzschuh A, Klein A, Kremen C, Landis D, Laurance W, Lindenmayer D, **Scherber C**, Sodhi N, Steffan-Dewenter I, Thies C, van der Putten W, Westphal C (2012) Landscape moderation of biodiversity patterns and processes - eight hypotheses. [Biological Reviews](#) 87: 661–685. Highlighted by FACULTY of 1000

2011

- [30] Vockenhuber EA, **Scherber C**, Langenbruch C, Meißner M, Seidel D, Tschardt T (2011) Tree diversity and environmental context predict herb species richness and cover in Germany's largest connected deciduous forest. [Perspectives in Plant Ecology, Evolution and Systematics](#) 13: 111–119.
- [29] Gladbach DJ, Holzschuh A, **Scherber C**, Thies C, Dormann CF, Tschardt T (2011) Crop-noncrop spillover: Arable fields affect trophic interactions on wild plants in surrounding habitats. [Oecologia](#) 166: 433–441.

- [28] Eisenhauer N, Milcu A, Allan E, Nitschke N, **Scherber C**, Temperton V, Weigelt A, Weisser WW, Scheu S (2011) Impact of above- and below-ground invertebrates on temporal and spatial stability of grassland of different diversity. [Journal of Ecology](#) 99: 572-582.
- [27] Thies C, Hänke S, **Scherber C**, Bengtsson J, Bommarco R, Clement LW, Ceryngier P, Dennis C, Emmerson M, Gagic V, Hawro V, Liira J, Weisser WW, Winqvist C, Tscharrntke T (2011) The relationship between agricultural intensification and biological control: experimental tests across Europe. [Ecological Applications](#) 21: 2187-2196.
- [26] Tscharrntke T, Clough Y, Bhagwat SA, Buchori D, Faust H, Hertel D, Hölscher D, Juhrbandt J, Kessler M, Perfecto I, **Scherber C**, Schroth G, Veldkamp E, Wanger TC (2011) Multifunctional shade-tree management in tropical agroforestry landscapes - A review. [Journal of Applied Ecology](#) 48: 619-6.

2010

- [25] Martinson GO, Werner FA, **Scherber C**, Conrad R, Corre MD, Flessa H, Wolf K, Klose M, Gradstein SR, Veldkamp E (2010) Methane emissions from tank bromeliads in neotropical forests. [Nature Geoscience](#) 3: 766-769.
- [24] **Scherber C** et al. (2010) Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. [Nature](#) 468: 553-556. Highlighted by FACULTY of 1000.
- [23] **Scherber C**, Heimann J, Köhler G, Mitschunas N, Weisser WW (2010) Functional identity versus species richness: Herbivory resistance in plant communities. [Oecologia](#) 163: 707-717.
- [22] **Scherber C**, Mwangi PN, Schmitz M, Scherer-Lorenzen M, Beßler H, Engels C, Eisenhauer N, Migunova VD, Scheu S, Weisser WW, Schulze ED, Schmid B (2010) Biodiversity and belowground interactions mediate community invasion resistance against a tall herb invader. [Journal of Plant Ecology](#) 3: 99-108.
- [21] **Scherber C** (2010) Book Review - S. Naeem, D.E. Bunker, A. Hector, M. Loreau and C. Perrings, Editors, Biodiversity, Ecosystem Functioning, and Human Wellbeing-An Ecological and Economic Perspective. [Basic and Applied Ecology](#) 11: 752.
- [20] **Scherber C** (2010) Book Review - Species Richness – Patterns in the Diversity of Life, J. Adams. [Basic and Applied Ecology](#) 11: 95.
- [19] Eisenhauer N, Beßler H, Engels C, Gleixner G, Habekost M, Milcu A, Partsch S, Sabais ACW, **Scherber C**, Steinbeiss S, Weigelt A, Weisser WW, Scheu S (2010) Plant diversity effects on soil microorganisms support the singular hypothesis. [Ecology](#) 91: 485-496.
- [18] Nitschke N, Ebeling A, Rottstock T, **Scherber C**, Middelhoff C, Creutzburg S, Weigelt A, Tscharrntke T, Fischer M, Weisser WW (2010) Time course of plant diversity effects on *Centaurea jacea* establishment and the role of competition and herbivory. [Journal of Plant Ecology](#) 3: 109-121.

- [17] Proulx R, Voigt W, Weigelt A, Roscher C, Attinger S, Baade J, Barnard RL, Buchmann N, Buscot F, Eisenhauer N, Fischer M, Gleixner G, Halle S, Hildebrandt A, Kowalski E, Kuu A, Lange M, Milcu A, Niklaus PA, Oelmann Y, Rosenkranz S, Sabais A, **Scherber C** *et al.* (2010) Diversity promotes temporal stability across levels of ecosystem organization in experimental grasslands. [PLoS One](#) 5(10): e13382.
- [16] Weigelt A, Marquard E, Temperton VM., Roscher C, **Scherber C**, Mwangi PN, von Felten S, Buchmann N, Schmid B, Schulze ED, Weisser WW. (2010) The Jena-Experiment: 6 years of data from a grassland biodiversity experiment. [Ecology](#) 91: 930-931.

2009

- [15] Sobek S, **Scherber C**, Steffan-Dewenter I, Tschamtk T (2009) Sapling herbivory, invertebrate herbivores and predators across a natural tree diversity gradient in Germany's largest connected deciduous forest. [Oecologia](#) 160: 279-288.
- [14] Sobek S, Steffan-Dewenter I, **Scherber C**, Tschamtk T (2009) Spatiotemporal changes of beetle communities across a tree diversity gradient. [Diversity and Distributions](#) 15: 660-670.
- [13] Sobek S, Tschamtk T, **Scherber C**, Schiele S, Steffan-Dewenter I (2009) Canopy vs. understory: Does tree diversity affect bee and wasp communities and their natural enemies across forest strata? [Forest Ecology and Management](#) 258: 609-615.
- [12] Eisenhauer N, Klier M, Partsch S, Sabais ACW, **Scherber C**, Weisser WW, Scheu S (2009) No interactive effects of pesticides and plant diversity on soil microbial biomass and respiration. [Applied Soil Ecology](#) 42: 31-36.
- [11] Eisenhauer N, Milcu A, Nitschke N, Sabais ACW, **Scherber C**, Scheu S (2009) Earthworm and belowground competition effects on plant productivity in a plant diversity gradient. [Oecologia](#) 161: 291-301.
- [10] Sobek S, Goßner MM, **Scherber C**, Steffan-Dewenter I, Tschamtk T (2009) Tree diversity drives abundance and spatiotemporal β -diversity of true bugs (Heteroptera). [Ecological Entomology](#) 34: 772-782.
- [9] van der Putten WH, Bardgett RD, De Ruiter PC, Hol WHG, Meyer KM, Bezemer TM, Bradford MA, Christensen S, Eppinga MB, Fukami T, Hemerik L, Molofsky J, Schädler M, **Scherber C**, Strauss SY, Vos M, Wardle DA (2009) Empirical and theoretical challenges in aboveground-belowground ecology. [Oecologia](#) 161: 1-14.

2008 and before

- [8] Specht J, **Scherber C**, Unsicker SB, Köhler G, Weisser WW (2008) Diversity and beyond: Plant functional identity determines herbivore performance. [Journal of Animal Ecology](#) 77: 1047-1055.
- [7] Jungkunst HF, Flessa H, **Scherber C**, Fiedler S (2008) Groundwater level controls CO₂, N₂O and CH₄ fluxes of three different hydromorphic soil types of a temperate forest ecosystem. [Soil Biology and Biochemistry](#) 40: 2047-2054.
- [6] Mwangi PN, Schmitz M, **Scherber C**, Roscher C, Schumacher J, Scherer-Lorenzen M, Weisser WW, Schmid B (2007) Niche pre-emption increases with species richness in experimental plant communities. [Journal of Ecology](#) 95: 65-78.
- [5] Milcu A, Partsch S, **Scherber C**, Weisser WW, Scheu S (2008) Earthworms and legumes control litter decomposition in a plant diversity gradient. [Ecology](#) 89: 1872-1882.
- [4] **Scherber C**, Milcu A, Partsch S, Scheu S, Weisser WW (2006) The effects of plant diversity and insect herbivory on performance of individual plant species in experimental grassland. [Journal of Ecology](#) 94: 922-931.
- [3] **Scherber C**, Mwangi PN, Temperton VM, Roscher C, Schumacher J, Schmid B, Weisser WW (2006) Effects of plant diversity on invertebrate herbivory in experimental grassland. [Oecologia](#) 147: 489-500.
- [2] **Scherber C**, Crawley MJ, Porembski S (2003) Insect herbivory and plant competition studies on the invasive alien plant *Senecio inaequidens* (Asteraceae) under laboratory conditions. [Neobiota](#) 3: 41-52, Berlin (eds. I Kuehn & S Klotz).
- [1] **Scherber C**, Crawley MJ, Porembski S (2003) The effects of herbivory and competition on the invasive alien plant *Senecio inaequidens* (Asteraceae). [Diversity and Distributions](#) 9: 415-426.

Book contributions (peer reviewed)

1. **Scherber C**, Lavandero B, Meyer KM, Perovic D, Visser U, Wiegand K, Tschardtke T (2012) Scale effects in biodiversity and biological control: methods and statistical analysis. Book chapter in: Gurr GM, Wratten SD, Snyder WE (eds.) [Biodiversity and Insect Pests: Key Issues for Sustainable Management](#), First Edition. John Wiley & Sons, Ltd.
2. Tschardtke T, Batáry P, Clough Y, Kleijn D, **Scherber C**, Thies C, Wanger TC, Westphal C (2012) Combining biodiversity conservation with agricultural intensification. Book chapter in: Lindenmayer D, Young A, Cunningham S, Broadhurst L (2012) [Land Use Intensification Effects on Biodiversity and Ways to Mitigate Them](#). CRC Press, Taylor & Francis Group. ISBN-10: 146651714X.

3. Clough Y, Abrahamczyk S, Adams MO, Anshary A, Ariyanti N, Betz L, Buchori D, Cicuzza D, Darras K, Putra DD, Fiala B, Gradstein SR, Kessler M, Klein AM, Pitopang R, Sahari B, **Scherber C** et al. (2010) Biodiversity patterns and trophic interactions in human-dominated tropical landscapes in Sulawesi (Indonesia): plants, arthropods and vertebrates. In: [Tropical Rainforests and Agroforests under Global Change](#), pp. 15-71, Springer.

Conference Proceedings

1. Tiede J, Tschardt T, Daniel R, Traugott M, Wemheuer B, **Scherber C** (2014) Feeding behavior of an omnivorous ground beetle in a grassland with manipulated plant diversity. 44th Annual Conference of the Ecological Society of Germany, Austria and Switzerland (GfÖ) 44: 103-104, Gesellschaft für Ökologie, University of Hildesheim.
2. Normann C, **Scherber C**, Tschardt T (2014) Wie beeinflussen Baumartenvielfalt und Randeffekte die Artenvielfalt von Krautschichtpflanzen und Laufkäfern in Wäldern? BfN Skripten 370: 75-80. Bundesamt für Naturschutz, Bonn.
3. Beduschi T, **Scherber C**, Tschardt T (2013) Landscape and local drivers of pollen beetle dynamics and parasitism. Proceedings of the Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Potsdam, September 2013.
4. Hillebrand H & **Scherber C** (2013) Biodiversity dynamics: understanding communities across trophic levels. Organized oral session at the Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Potsdam, September 2013
5. Normann C, **Scherber C**, Tschardt T (2013) Does tree diversity change forest edge effects on carabid beetle communities? Proceedings of the Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Potsdam, September 2013
6. **Scherber C**, Gladbach DJ, Stevnbak K, Karsten RJ, Schmidt IK, Michelsen A, Albert KR, Larsen KS, Mikkelsen TN, Beier C, Christensen S (2013) Multi-factor climate change effects on plant-herbivore and above-belowground interactions. Open Landscapes Conference, Hildesheim, September-October 2013.
7. **Scherber C**, Gladbach DJ, Stevnbak K, Karsten RJ, Schmidt IK, Michelsen A, Albert KR, Larsen KS, Mikkelsen TN, Beier C, Christensen S (2013) Multi-factor climate change effects on plant-herbivore and above-belowground interactions. Proceedings of the Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Potsdam, September 2013
8. **Scherber C** (2013) Effects of climate change on insect herbivores in managed ecosystems. 2013 Entomological Conference of the DGAAE (German Society for general and applied Entomology), Göttingen, Germany.
9. Kormann U, **Scherber C**, Hadley A, Betts M, Klein N, Larbig M, Tschardt T (2013) Living fence rows promote gap crossing behavior in hummingbirds. Proceedings of the Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Potsdam, September 2013

10. **Scherber C**, Kormann U, Batary P, Tschardtke T (2012) Choosing between types of linear models in the analysis of species richness data in fragmented landscapes. International Statistical Ecology Conference 2012, Sundvolden, Oslo (Norway)
11. Kormann U, **Scherber C** et al (2012) Landscape context affects the relative importance of grassland fragmentation and management for insect communities. 3rd European Congress of Conservation Biology, 28th August-1st September 2012, Glasgow (UK)
12. Everwand C, **Scherber C** et al (2012) Leafhopper diversity can profit from moderate mowing and fertilization in a grassland biodiversity experiment. 3rd European Congress of Conservation Biology, 28th August-1st September 2012, Glasgow (UK)
13. Rösch V, **Scherber C**, Tschardtke T, Batary P (2012) Differences in β -diversity between large and small fragments of calcareous grassland. 3rd European Congress of Conservation Biology, 28th August-1st September 2012, Glasgow (UK)
14. Rothenwöhler C, **Scherber C**, Tschardtke T (2011) Effects of land-use intensification on insect communities at different trophic levels. 2011 Entomological Conference of the DGAAE (German Society for general and applied Entomology)
15. **Scherber, C.** (2011) Effects on plant species richness on multitrophic interactions: Results from an eight-year biodiversity experiment. International Scientific Conference "Functions and Services of Biodiversity", University of Göttingen, 20-22nd June 2011.
16. Ludwig, M., Schlinkert, H., Holzschuh, A., Fischer, C., **Scherber, C.**, Trnka, A., Tschardtke T. & Batáry, P. (2010). Landscape-mediated effects on nest predation in hedges and forest edges. Multitrophic Interactions Workshop, 25-26th March 2010, Göttingen, p. 15.
17. **Scherber, C.**, Clough Y, Holzschuh A, Klein AM and Teja Tschardtke (2009) Multifunctionality of biodiversity in the agricultural landscape. ESA 2009 Conference of the Ecological Society of America (invited talk), session "Multifunctionality of biodiversity", Albuquerque, New Mexico, USA, August
18. K Stevnbak, **C Scherber**, D Gladbach, Søren Christensen (2009) Climate change strongly affects interaction between herbivorous insects, plants, and rhizosphere biota. IOP Conference Series: Earth and Environmental Science 6 (2009) 042014, IOP Publishing Ltd, doi:10.1088/1755-1307/6/4/042014
19. Vockenhuber, E., **Scherber, C.** & T. Tschardtke (2009) The effect of plant diversity on insect communities in a temperate deciduous forest. 39th Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Bayreuth, 14-18 September 2009
20. Vockenhuber, E., **Scherber, C.** & T. Tschardtke (2009) Insect and herb communities along a forest tree diversity gradient. 2009 Entomological Conference of the DGAAE (German Society for general and applied Entomology)

21. Gladbach, D., **Scherber, C.**, Tschardtke, T., Mikkelsen, A. & C. Beier (2009) Effects of Climate Change on Aboveground Trophic Interactions. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
22. Gladbach, D., Thies, C., **Scherber, C.**, Holzschuh, A., Dormann, C.F. & T. Tschardtke (2009) Effects of local and regional landscape features on multitrophic plant-insect interactions. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
23. von Fragstein, M, Ksinsik, M., **Scherber, C.**, Holzschuh, A., Schütz S. & T. Tschardtke (2009) Plant insect interactions on Aspen (*Populus tremula*) differing in genetic origin. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
24. Richter, A.K., Y. Oelmann, **C. Scherber**, W.W. Weisser & W. Wilcke: Does herbivory influence the nitrogen and phosphorus dynamics in throughfall and soil solution? Proceedings of the EURECO - GFOE , 15.-19. Sept. 2008, Leipzig (Germany).
25. **Scherber, C.**, Ebeling, A., Eisenhauer, N., Fischer, M., Halle, S., Klein, A.-M., Milcu, A., Rottstock, T., Sabais, A., Scheu, S., Voigt, W., Schmid, B., Schulze, E.-D., Weisser, W.W., Tschardtke, T. (2008) Responses of Ecosystem Components to Biodiversity Change. German-American Frontiers of Science Symposium (GAFOS) 2008, Potsdam, Germany (Alexander von Humboldt Foundation).
26. **Scherber, C.**, Weisser, W.W. (2005) Plant diversity and invertebrate herbivory in experimental grassland ecosystems. Proceedings of the Annual Meeting of the British Ecological Society, University of Hertfordshire, UK, 5 - 7 September 2005.
27. **Scherber, C.**, Weisser, W.W. (2005) Effects of plant diversity on invertebrate herbivory in grasslands. Proceedings of the Gesellschaft für Ökologie 35, 147.
28. Specht, J., **Scherber, C.**, Köhler, G., Weisser, W.W. (2005) The relationship between plant diversity and fitness of the Common Grasshopper, *Chorthippus parallelus* ZETT. (Orthoptera: Acrididae). Proceedings of the Gesellschaft für Ökologie 35, 149.
29. **Scherber, C.** (2002) The effects of herbivory and competition on *Senecio inaequidens* DC (Asteraceae), an invasive alien plant. Proceedings of the 2nd International Conference of the German Working Group on Biological Invasions "Neobiota" – Biological Invasions: Challenges for Science: p. 53, October 10th-12th, 2002.

Invited Talks

1. **Scherber C** (2014) Plant diversity, global change, and multitrophic interactions. University of Swansea, Wales, UK (invited talk)

2. **Scherber C** (2013) Multi-factor climate change effects on plant-herbivore and above-belowground interactions. University of Würzburg (invited talk)
3. **Scherber C** (2013) Effects of climate change on insect herbivores in managed ecosystems. 2013 Entomological Conference of the DGAAE (German Society for general and applied Entomology), Göttingen, Germany (invited talk)
4. **Scherber C** (2012) Global change experiments and multitrophic interactions. CNRS Centre d'Etudes Biologique de Chizé (France), 29th March 2012 (invited talk)
5. **Scherber C** (2011) Effects of biodiversity on multitrophic interactions in terrestrial ecosystems. Lecture Series in Ecology and Evolution, University of Bern, Switzerland, 17th May 2011 (invited talk).
6. **Scherber C** (2011) Effects of plant species richness on plant-herbivore and multitrophic interactions. Botany Seminars, Department of Agriculture & Ecology, Copenhagen University, 25th March 2011 (invited talk)
7. **Scherber C** (2011) Plant diversity and multitrophic interactions in experimental grassland ecosystems. Ecology and Evolution Seminar Series, Imperial College London, Silwood Park, 1st July 2011 (invited talk).
8. **Scherber C** (2011) Effects on plant species richness on multitrophic interactions: Results from an eight-year biodiversity experiment. International Scientific Conference "Functions and Services of Biodiversity", University of Göttingen, 20-22nd June 2011 (invited talk).
9. **Scherber C** (2011) Biodiversity and multitrophic interactions in terrestrial ecosystems. University of Rostock, Biologisches Kolloquium, 20th January 2011 (invited talk).
10. **Scherber, C.**, Clough Y, Holzschuh A, Klein AM and Teja Tschardt (2010) Multifunctionality of biodiversity in the agricultural landscape. Meeting of the ecology working groups of the University of Göttingen, January 2010 (invited speaker).
11. Gladbach, D. & **Scherber, C.** (2009) Climate change effects on growth and survival of herbivorous insects. Workshop "Heathland ecology and management" at the University of Copenhagen, 2nd November 2009 (invited)
12. **Scherber, C.** (2007) The importance of agri-environment schemes for biodiversity (Die Bedeutung von Agrarumweltmaßnahmen für die Biologische Vielfalt). Lecture, Kolloquium Phytomedizin und Studienrichtungskolloquium Pflanzenproduktion, Georg-August-Universität Göttingen (invited)
13. **Scherber, C.** (2005) Insect herbivory in grasslands: New insights from The Jena Experiment. Seminar in plant population biology and biodiversity research, Institut für Umweltwissenschaften, Universität Zürich, 14. Dezember 2005 (invited)

14. **Scherber, C.** (2004) From Alaska to the lab: Complex systems research in ecology (in German). German Cancer Research Centre, Heidelberg, Germany, June 2004. (invited)
15. **Scherber, C., Weisser, W.W.** (2004) Insect herbivory and plant diversity in experimental grassland ecosystems. Multitrophic Interactions Meeting, University of Goettingen, 31st March 2004, Germany. (invited)
16. **Scherber, C., Weisser W.W.** (2003) Biodiversität und das Funktionieren von Ökosystemen: Warum ist Artenvielfalt wichtig? Botanischer Garten Münster, 7. Oktober 2003 (invited speaker)
17. **Scherber, C.** (2002) The effects of herbivory and competition on *Senecio inaequidens* DC. (Asteraceae), an invasive alien plant. Silwood Seminar Series, Silwood Park, UK, 23rd September 2002 (invited speaker)
18. **Scherber, C.** (1998) Animals and Plants of the 'Bernrieder Filz' Nature Reserve (Bavaria, Municipality of Seeshaupt). Proceedings of the 2nd Conference of the International Carnivorous Plant Society, Botanisches Institut der Universität Bonn (invited junior research speaker)

Poster Contributions

1. **Scherber C**, Gladbach DJ, Stevnbak K, Karsten RJ, Schmidt IK, Michelsen A, Albert KR, Larsen KS, Mikkelsen TN, Beier C, Christensen S (2013) Multi-factor climate change effects on insect herbivore performance. INTECOL, August 2013, London, UK.
2. Beduschi T, **Scherber C**, Tschardtke T (2013) Landscape and local drivers of pollen beetle dynamics and parasitism rates. INTECOL, August 2013, London, UK.
3. Normann C, **Scherber C**, Tschardtke T (2012) Can tree species richness buffer edge effects in temperate deciduous forests? 3rd European Congress of Conservation Biology, 28th August-1st September 2012, Glasgow (UK)
4. Rösch V, **Scherber C**, Tschardtke T, Batáry P (2012) Increasing isolation of calcareous grassland fragments negatively affects leafhopper species richness (Auchenorrhyncha). Student Conference on Conservation Science, Cambridge, UK, 20-23rd March 2012.
5. Everwand G, **Scherber C**, Tschardtke T (2011): Molluscs respond to biodiversity and grassland management in a functional group removal experiment. International Conference "Functions and Services of Biodiversity", 20-22nd June 2011, Göttingen.
6. Everwand G, **Scherber C**, Tschardtke T (2010) Trophic interactions in a grassland management experiment. 40th Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Giessen, August 30th-3rd September 2010
7. Vockenhuber, E., **Scherber, C.** & T. Tschardtke (2010) Diversity of Diptera in a deciduous forest: The role of tree and herb diversity. IXth European Congress of Entomology, Budapest, Hungary, 22nd-27th August 2010.
8. Vockenhuber, E., **Scherber, C.** & T. Tschardtke (2009) The effect of plant diversity on insect communities in a temperate deciduous forest. 39th Annual conference of the Ecological Society of Germany, Austria and Switzerland (GFÖ), Bayreuth, 14-18 September 2009
9. Vockenhuber, E., **Scherber, C.** & T. Tschardtke (2009) Insect and herb communities along a forest tree diversity gradient. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
10. Gladbach, D., **Scherber, C.**, Tschardtke, T., Mikkelsen, A. & C. Beier (2009) Effects of Climate Change on Aboveground Trophic Interactions. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
11. Gladbach, D., Thies, C., **Scherber, C.**, Holzschuh, A., Dormann, C.F. & T. Tschardtke (2009) Effects of local and regional landscape features on multitrophic plant-insect interactions. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)

12. von Fragstein, M, Ksinsik, M., **Scherber, C.**, Holzschuh, A., Schütz S. & T. Tschardtke (2009) Plant insect interactions on Aspen (*Populus tremula*) differing in genetic origin. 2009 Entomological Conference of the DGaE (German Society for general and applied Entomology)
13. **Scherber, C.**, Ebeling, A., Eisenhauer, N., Fischer, M., Halle, S., Klein, A.-M., Milcu, A., Rottstock, T., Sabais, A., Scheu, S., Voigt, W., Schmid, B., Schulze, E.-D., Weisser, W.W., Tschardtke, T. (2008) Responses of Ecosystem Components to Biodiversity Change. German-American Frontiers of Science Symposium (GAFOS) 2008, Potsdam, Germany (Alexander von Humboldt Foundation).
14. **Scherber, C.**, Weisser, W.W. (2005) Insect herbivory and plant diversity in *Rumex acetosa* L. (Polygonaceae). International Max Planck Research School 2nd Biannual Symposium 2005, Jena, Germany.
15. **Scherber, C.**, Weisser, W.W. (2004) Invertebrate Herbivory, Invertebrate Diversity and Ecosystem Functioning in Experimental Grassland Ecosystems. International Max Planck Research School Biannual Symposium 2004, Jena, Germany.

Other Publications

1. **Scherber C** (2012) Using R in combination with Adobe Illustrator CS6 for professional graphics output. *Software Developer 's Journal* 4/2012.
2. **Scherber, C.** (2003) Biologische Kontrolle des Neophyten *Senecio inaequidens* (Asteraceae) durch ein einheimisches Insekt, *Longitarsus jacobaeae* (Coleoptera: Chrysomelidae). Neozoen-Newsletter, Allgemeine & Spezielle Zoologie, Universität Rostock.
3. **Scherber, C.** (2002): Schönheit siegt. Ursachen und Folgen physischer Attraktivität. *Traditio et Innovatio* 4, Universität Rostock.
4. **Scherber, C.** (2000) Gentechnisch veränderte Lebensmittel und Öffentlichkeitsarbeit – Ergebnisse einer interdisziplinären Studie. *Tagungsband Innovative und Nachhaltige Agrobiotechnologie in Mecklenburg-Vorpommern*, Rostock.
5. **Scherber, C.** (2000) Arten turnover – ein Maß für die zeitliche Dynamik in Biozönosen. Online Publication, available via www.amazon.de
6. **Scherber, C.** (2000) Fleischfressende Pflanzen. Online Publication, available via www.amazon.de
7. **Scherber, C.** (1998) Die Tier- und Pflanzenwelt von Hochmooren am Beispiel des Naturschutzgebiets "Bernrieder Filz" (Südbayern), mit besonderer Berücksichtigung gefährdeter Arten und deren Mobilität. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
8. **Scherber, C.** (1998) Charakteristische Tierarten in Hochmoorbiotopen. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
9. **Scherber, C.** (1998) Anpassungen von Tieren an die Lebensbedingungen im Hochmoor. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
10. **Scherber, C.** (1998) Pflanzenwelt im Moor. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
11. **Scherber, C.** (1998) Tiere und Pflanzen im Lebensraum Hochmoor. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
12. **Scherber, C.** (1998) Allgemeine Definition und Abgrenzung des Lebensraumes "Hochmoor" von anderen Moortypen. In: *Das Taublatt* 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X

13. **Scherber, C.** (1998) Moore – eine Einführung. In: [Das Taublatt](#) 33, 1/1998, Sonderheft Lebensraum Hochmoor. ISSN 0942-959X
14. **Scherber, C.** (1997) Leben im Hochmoor. Online publication, available via <http://www.grin.com/de/e-book/103426/leben-im-hochmoor>
15. **Scherber, C.** (1997) Renaturierungsmaßnahmen im Naturschutzgebiet "Bernrieder Filz". Ausfertigung als Auftragsarbeit, Gemeindecarchiv der Gemeinde Seeshaupt, Starnberger See, Bayern.
16. **Scherber, C.** (1996) Knollenbildende Sonnentau-Arten für jedermann!? Zur Kultur australischer *Drosera* - Arten der Sektionen Ergaleium, Stolonifera und Erythrorhiza. [Das Taublatt](#) 27, 1/1996
17. **Scherber, C.** (1996) Renaturierungsmaßnahmen im Naturschutzgebiet "Bernrieder Filz". Ausfertigung als Auftragsarbeit für das [Bayerische Landesamt für Umweltschutz](#), Bibliothek des Bayerischen Landesamts für Umweltschutz.
18. **Scherber, C.** (1995) Champignons Carnivores - vue d'ensemble des especes. [Dionée](#) 33 (in French).
19. **Scherber, C.** (1993) Carnivore Pilze - eine Artenübersicht. [Das Taublatt](#) 21, 2/1993.

Theses

1. **Scherber, C.** (2012) Biodiversity and multitrophic interactions in changing terrestrial ecosystems. [Habilitation Thesis](#), University of Göttingen, 258 pp.
2. **Scherber, C.** (2006) Invertebrate herbivory, plant diversity and ecosystem processes in experimental grassland. [Dissertation](#), University of Jena, 122 pp.
3. **Scherber, C.** (2002) The effects of herbivory and competition on *Senecio inaequidens* DC (Asteraceae), an invasive alien plant. [Diploma Thesis](#), University of Rostock., 92 pp.
4. **Scherber, C.** (2002) Biologische Invasionen - Der Neophyt *Senecio inaequidens* als Indikator einer beschleunigten Welt. [German Students Award](#) competition entry. Available on request.
5. Braun, C., Gründl, M., Marberger, C. & **Scherber, C.** (2001). Beautycheck - Ursachen und Folgen von Attraktivität. [German Students Award](#) - 2nd prize, Awarded by the Körber Foundation. Available on request.
6. **Scherber, C.** (1997) Die Tier- und Pflanzenwelt im Naturschutzgebiet "Bernrieder Filz". [Jugend forscht-Arbeit](#) / German Competition for Young People in the field of Science and Technology. Available on request.
7. **Scherber, C.** (1996) Renaturierungsmaßnahmen im Naturschutzgebiet "Bernrieder Filz". [Facharbeit](#), Max-Planck-Gymnasium Muenchen-Pasing. Available on request.