

CHARLOTTE GROSSIORD

Swiss Federal Institute for Forest, Snow and Landscape Research WSL, CH-8903 Birmensdorf, Switzerland

+41(0)77-526-3919

charlotte.grossiord@wsl.ch

https://www.researchgate.net/profile/Charlotte_Grossiord

EDUCATION

- Oct 2014:** Ph.D. in Forest Ecology, University of Lorraine, INRA, France.
- Sep 2011:** Master in Biology at the University of Lorraine, France (Forestry, Ecology, Agronomy and Environment).
- Sep 2009:** Bachelor in Biology at the University of Strasbourg, France.

PROFESSIONAL EXPERIENCE

- Starting Mar 2020:** Tenure-track Assistant Professor EPFL-WSL, Lausanne, Switzerland
- July 2018 - present:** Ambizione Fellow at WSL, Birmensdorf, Switzerland.
- May 2015 – May 2018:** Director's Postdoctoral Fellow at the Los Alamos National Laboratory, NM, USA.
- Dec 2014 – Apr 2015:** Postdoctoral research associate at INRA, Nancy, France.
- Oct 2011 – Oct 2014:** Ph.D. student at INRA, Nancy, France.
- Feb 2011 – Sep 2011:** Graduate intern at CRDPI, Pointe Noire, Congo and INRA, Nancy, France.

LANGUAGES

- French: native
- German: native
- English: fluent

HONORS & AWARDS

- Feb 2018:** **Postdoc Distinguished Performance Award (PDPAs)**, Los Alamos National Laboratory, USA.
- Apr 2017:** **Göttinger Price for Forest Ecosystem Research (Göttinger Preis für Waldökosystemforschung)**, Georg-August-Universität Göttingen, Germany.
- Dec 2015:** **Regional Ph.D. Science and Society Prize** (Second place), region Lorraine, France.
- Oct 2015:** **Silver Medal of the National Agricultural Academy of France**. Note: one Medal (Gold) is for researchers, one Medal (Silver) for PhD students, and one Medal (Bronze) is for technicians.

GRANTS

- Jan 2018:** New Phytologist 41st Symposium. Travel Grant. **€1300**
- Aug 2017:** Ambizione Career grant, SNSF (Swiss National Science Foundation) – Forest under stress: Understanding how species interact and adjust to climate change. **CHF 822,856**
- Apr 2016:** Postdoctoral Director's Fellowship at the Los Alamos National Laboratory, **\$152,000**

- Apr 2016:** CSES Emerging Ideas Research and Development – Effects of atmospheric warming and precipitation reduction on the interaction between carbon and nutrient relations I. **\$18,000**
- Sep 2013:** Labex ARBRE (Advanced Research on the Biology of Tree and Forest Ecosystems) – Effects of biodiversity on the resistance of European forest ecosystems in a drought-prone future. Travel Grant. **€1500**

ORGANISATION OF INTERNATIONAL CONFERENCES

- Sep 2019:** Management options to increase the drought tolerance of forests, World Congress of the International Union of Forest Research Organizations (IUFRO), Curitiba, Brazil, **Session lead/chair**
- Sep 2019:** Physiological plant ecology in a complex and changing world, Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (Gfö), Münster, Germany, **Session lead/chair**
- Apr 2019:** Forests under stress: improving our understanding on how trees respond and adjust to a drier and warmer climate, organized oral session, General Assembly of the European Geoscience Union (EGU), Vienna, Austria, **Session lead/chair**
- Aug 2018:** Plant-Soil Interactions Under Changing Climate, organized oral session, Annual meeting of the Ecological Society of America (ESA), New Orleans, USA, **Session lead/chair**
- Dec 2016:** Tropical forests under a changing climate, organized oral and poster sessions, American Geophysical Union Fall meeting (AGU), San Francisco, USA, **Session lead/chair**

INVITED TALKS

- Mar 2019:** **Grossiord C.** Terrestrial ecosystems in a changing climate. Universität Basel, Basel, Switzerland.
- Feb 2018:** **Grossiord C.** How forests respond to long-term temperature rise. United States Geological Survey (USGS), Moab, USA.
- Aug 2017:** **Grossiord C.** Tree water dynamics in warming and drying climate. Annual meeting of the Ecological Society of America (ESA), Portland, USA.
- Nov 2014:** **Grossiord C.** Mixed forests in the context of climate change. Scientific exchange with the head office of INRA, Paris, France.
- Aug 2014:** **Grossiord C.** Relationship between species diversity and carbon and water relations under a changing climate. MIXFOR summer school, Nancy, France.
- Apr 2014:** **Grossiord C.** Forest biodiversity and water use efficiency. 11th Exploratories Assembly, Wernigerode, Germany.

ORAL CONTRIBUTIONS TO CONFERENCES

- Apr 2019:** **Grossiord C,** Christoffersen B, and the NGEE Tropics Team. Precipitation mediates transpiration sensitivity to evaporative demand in the neotropics. General Assembly of the European Geoscience Union (EGU), Vienna, Austria.
- Aug 2018:** **Grossiord C,** Sevanto S, Bonal D, Dawson TE, Wang W, McDowell N. Warming and drought modify belowground interactions for water among coexisting plants. Annual meeting of the Ecological Society of America (ESA), New Orleans, USA.
- Apr 2018:** **Grossiord C.** Reductions in tree performance during hotter droughts are minimized by shifts in nitrogen cycling. New Phytologist 41st Symposium, Nancy, France.
- Dec 2017:** **Grossiord C.** Altered nutrition during hot droughts will impair forest functions in the future. AGU Fall meeting, New Orleans, USA.

- Jan 2014:** **Grossiord C.** Higher tree species diversity reduces the effect of drought on European forest ecosystems. FunDiv EUROPE Annual Meeting 2014, Copenhagen, Denmark.
- Dec 2013:** **Grossiord C, Granier A, Gessler A, Bonal D.** Can diverse forests use and share water resources more efficiently in a drought-prone future? AGU Fall Meeting, San Francisco, USA.
- Sep 2013:** **Grossiord C, Granier A, Gessler A, Jucker T, Bonal D.** Does Drought Influence the Relationship between Biodiversity and Ecosystem Functioning in Boreal Forests? International Conference on Climate Change and Tree Responses in Central European Forests, Zurich, Switzerland.
- Jan 2013:** **Grossiord C.** Tree species mixture does not enhance transpiration or water use efficiency in a mixed boreal plantation. 2013 seminar of the RP2E Doctoral School, Nancy, France.
- Jan 2013:** **Grossiord C.** Impact of biodiversity on physiological adaptation at the tree- and plot-level. FunDiv EUROPE Annual Meeting 2013, Florence, Italy.
- Jan 2012:** **Grossiord C.** Water use in mixed temperate and boreal plantations. FunDiv EUROPE Annual Meeting 2012, Helsinki, Finland.

TEACHING

Fall 2018-present: "Applied Systems Ecology" – Bachelor degree, ETH Zürich, Zürich, Switzerland.

SYNERGISTIC ACTIVITIES

Manuscript reviewer for: Ecology Letters, Journal of Ecology, Global Change Biology, New Phytologist, Functional Ecology, Agricultural and Forest Meteorology, Oecologia, Methods in Ecology & Evolution, Oikos, Trees: Structure and Function, Tree Physiology, Acta Oecologica, Canadian Journal of Forest Research, Forest Ecology and Management, Environmental and Experimental Botany, Plos One.

Journal editor for: Frontiers in Plant Science (review editor and guest editor for the special issue "Plant-Soil interactions under climate change").

Professional membership (past and present): American Geophysical Union (AGU), Ecological Society of America (ESA), Société Française d'Ecologie (French Ecology Society).

Proposal evaluator for: European Research Council Starting Grants (ERC), Labex Arbre (Advanced Research on the Biology of Tree and Forest Ecosystems), Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants, Czech Science Foundation.

Spokesperson for experiments: The model-ecosystem facility WSL; for visiting scientists, graduate students and the general public, explaining plant-climate research, experimental design, and hypothesis testing.

Volunteer for Expanding Your Horizons (EYH) in Santa Fe (USA), help organize meetings introducing middle school girls to career options and opportunities in science (2017- 2018).

RESEARCH EXPEDITIONS

Field campaigns conducted in: Congo (2011), Italy (2012), Germany (2012-2013), Finland (2012), Poland (2013), Spain (2013-2014), Romania (2013), France (2010- 2015; 2018-present), USA (2015-present), Panama (2016), Brazil (2016), Switzerland (2018-present) and Australia (2018-present).

Experimental setup of water and temperature manipulation; Plant community surveys and forest inventories; Plant material collection; In situ ecophysiological and biogeochemical measurements (gas exchange, leaf water potential, sap flux, soil respiration, soil nitrification and ammonification rates...); Experimental isotope pulse labeling techniques; Characterization of abiotic conditions (soil characteristics, topography, light availability, etc.).

PUBLICATION LIST

1. Grossiord C, Mareschal L, Epron D. (2012). Transpiration alters the contribution of autotrophic and heterotrophic components of soil CO₂ efflux. *New Phytologist*, 194, 647-653.
2. Grossiord C, Granier A, Gessler A, Pollastrini M, Bonal D. (2013). The influence of tree species mixture on ecosystem-level carbon accumulation and water use in a mixed boreal plantation. *Forest Ecology and Management*, 298, 82-92.
3. Grossiord C, Granier A, Gessler A, Scherer-Lorenzen M, Pollastrini M, Bonal D. (2013). Application of Loreau & Hector's (2001) partitioning method to complex functional traits. *Methods in Ecology and Evolution*, 4, 954-960.
4. Baeten L, Verheyen K, Wirth C, Bruelheide H, Bussotti F, Finér L, Jaroszewicz B, Selvi F, Valladares F, Allan E, Ampoorter E, Auge H, Avăcăriei D, Barbaro L, Bărnoaiea I, Bastias CC, Bauhus J, Beinhoff C, Benavides R, Benneter A, Berger S, Berthold F, Boberg J, Bonal D, Brüggemann W, Carnol M, Castagneyrol B, Charbonnier Y, Češko E, Coomes D, Coppi A, Dalmaris E, Dănilă G, Dawud SM, de Vries W, De Wandeler H, Deconchat M, Domisch T, Duduman G, Fischer M, Fotelli M, Gessler A, Gimeno TE, Granier A, Grossiord C, Guyot V, Hantsch L, Hättenschwiler S, Hector A, Hermy M, Holland V, Jactel H, Joly F-X, Jucker T, Kolb S, Koricheva J, Lexer MJ, Liebergesell M, Milligan H, Müller S, Muys B, Nguyen D, Nichiforel L, Pollastrini M, Proulx R, Rabasa S, Radoglou K, Ratcliffe S, Raulund-Rasmussen K, Seiferling I, Stenlid J, Vesterdal L, von Wilpert K, Zavala MA, Zielinski D, Scherer-Lorenzen M. (2013). A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. *Perspectives in Plant Ecology, Evolution and Systematics*, 15, 281-291.
5. Grossiord C, Granier A, Gessler A, Jucker T, Bonal D. (2014). Does drought influence the relationship between biodiversity and ecosystem functioning in boreal forests?. *Ecosystems*, 17, 394-404.
6. Grossiord C, Gessler A, Granier A, Pollastrini M, Bussotti F, Bonal D. (2014). Interspecific competition influences the response of oak transpiration to increasing drought stress in a mixed Mediterranean forest. *Forest Ecology and Management*, 318, 54-61.
7. Grossiord C, Granier A, Ratcliffe S, Bouriaud O, Bruelheide H, Češko E, Finér L, Forrester DI, Pollastrini M, Scherer-Lorenzen M, Valladares F, Bonal D, Gessler A. (2014). Tree diversity does not always improve resistance of forest ecosystems to drought. *Proceedings of the National Academy of Sciences (PNAS)*, 111, 14812-14815.
8. Grossiord C, Berger S, Bréchet C, Gessler A, Granier A, Henschel R, Hommel R, Scherer-Lorenzen M, Bonal D. (2014). Impact of interspecific interactions on the soil water uptake depth in a young temperate mixed species plantation. *Journal of Hydrology*, 519, 3511-3519.
9. Grossiord C, Forner A, Gessler A, Granier A, Pollastrini M, Valladares F, Bonal D. (2015). Influence of species interactions on transpiration of Mediterranean tree species during a summer drought. *European Journal of Forest Research*, 134, 365-376.
10. Grossiord C, Gessler A, Granier A, Bonal D. (2015) Les forêts tempérées face aux conséquences du changement climatique: est-il primordial de favoriser une plus forte diversité d'arbres dans les peuplements forestiers? (Consequences of climate change on temperate forests: favoring tree species diversity as a climate-smart management strategy) *Revue Forestière Française*, 2: 99-110.
11. Van der Plas F, Manning P, Soliveres S, Allan E, Scherer-Lorenzen M, Verheyen K, Wirth C, Zavala MA, Ampoorter E, Baeten L, Barbaro L, Bauhus J, Benavides R, Benneter A, Bonal D, Bouriaud O, Bruelheide H, Bussotti F, Carnol M, Castagneyrol B, Charbonnier Y, Coomes DA, Coppi A, Crespo C, Muhie Dawud S, de Wandeler H, Domisch T, Finér L, Gessler A, Granier A, Grossiord C, Guyot V, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Jucker T, Koricheva J, Milligana H, Mueller S, Muys B, Nguyen D, Pollastrini M, Ratcliffe S, Raulund-Rasmussen K, Selvi F, Stenlid J, Valladares F, Vesterdal L, Zielinski D, Fischer M. (2016). Biotic homogenization can decrease landscape-scale forest multifunctionality. *Proceedings of the National Academy of Sciences (PNAS)*, 113, 3557-3562.
12. Pollastrini M, Feducci M, Bonal D, Fotelli M, Gessler A, Grossiord C, Guyot V, Jactel H, Nguyen D, Radoglou K, Bussotti F. (2016). Physiological significance of forest tree defoliation: Results from a survey in a mixed forest in Tuscany (central Italy). *Forest Ecology and Management*, 361, 170-178.

13. Van der Plas F, Manning P, Soliveres S, Allan E, Scherer-Lorenzen M, Verheyen K, Wirth C, Zavala MA, Ampoorter E, Baeten L, Barbaro L, Bauhus J, Benavides R, Benneter A, Bonal D, Bouriaud O, Bruelheide H, Bussotti F, Carnol M, Castagneyrol B, Charbonnier Y, Coomes DA, Coppi A, Crespo C, Muhie Dawud S, de Wandeler H, Domisch T, Finér L, Gessler A, Granier A, **Grossiord C**, Guyot V, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Jucker T, Koricheva J, Milligana H, Mueller S, Muys B, Nguyen D, Pollastrini M, Ratcliffe S, Raulund-Rasmussen K, Selvi F, Stenlid J, Valladares F, Vesterdal L, Zielinski D, Fischer M. (2016). Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. *Nature communications*, 7, 11109.
14. Forrester DI, Bonal D, Dawud S, Gessler A, Granier A, Pollastrini M, **Grossiord C** (2016). Drought responses by individual tree species are not often correlated with tree species diversity in European forests. *Journal of Applied Ecology*, 53, 1725-1734.
15. **Grossiord C**, Sevanto S, Dawson TE, Adams HD, Collins AD, Dickman LT, Newman BD, Stockton EA, McDowell NG (2017) Warming combined with more extreme precipitation regimes modifies water sources of trees. *New Phytologist*, 213, 584-596.
16. Pollastrini M, Benavides R, Bonal D, Finer L, Fotelli M, Gessler A, **Grossiord C**, Radoglou K, Bussotti F (2017). Tree diversity affects chlorophyll a fluorescence and other leaf traits of tree species in a boreal forest. *Tree Physiology*, 37, 199-208.
17. **Grossiord C**, Sevanto S, Adams HD, Collins AD, Dickman LT, McBranch N, Michaletz ST, Stockton EA, Vigil M, McDowell NG (2017) Precipitation, not air temperature, drives tree physiological and morphological plasticity in semi-arid ecosystems. *Journal of Ecology*, 105, 163-175.
18. Ratcliffe S, Wirth C, Jucker T, van der Plas F, Scherer-Lorenzen M, Verheyen K, Allan E, Benavides R, Bruelheide H, Ohse B, Paquette A, Ampoorter E, Crespo C, Bauhus J, Bonal D, Bouriaud O, Bussotti F, Carnol M, Castagneyrol B, Checko E, Dawud S, de Wandeler H, Domisch T, Finer L, Fischer M, Fotelli M, Gessler A, Granier A, Grossiord C, Guyot V, Haase J, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Kambach S, Kolb S, Koricheva J, Liebergesell M, Milligan H, Müller S, Muys B, Nguyen D, Nock C, Pollastrini M, Purschke O, Radoglou K, Raulund-Rasmussen K, Roger F, Ruiz-Benito P, Seidl R, Selvi F, Seiferling I, Stenlid J, Valladares F, Vesterdal L, Baeten L (2017). Biodiversity and ecosystem functioning relations in European forests depend on environmental context. *Ecology Letters*, 20, 1414-1426.
19. **Grossiord C**, Sevanto S, Borrego I, Chan AM, Collins AD, Dickman LT, Hudson PJ, McBranch N, Michaletz ST, Pockman WT, Ryan M, Vilagrosa A, McDowell NG (2017) Tree water dynamics in a drying and warming world. *Plant, Cell & Environment*, 40, 1861-1873.
20. Jucker T, **Grossiord C**, Bonal D, Bouriaud O, Gessler A, Coomes DA (2017). Detecting fingerprint of drought across Europe's forests: do carbon isotope ratios and stem growth tell similar stories?. *Forest Ecosystems*, DOI: 10.1186/s40663-017-0111-1.
21. Van der Plas F, Manning P, Soliveres S, Allan E, Scherer-Lorenzen M, Verheyen K, Wirth C, Zavala MA, Ampoorter E, Baeten L, Barbaro L, Bauhus J, Benavides R, Benneter A, Bonal D, Bouriaud O, Bruelheide H, Bussotti F, Carnol M, Castagneyrol B, Charbonnier Y, Coomes DA, Coppi A, Crespo C, Muhie Dawud S, de Wandeler H, Domisch T, Finér L, Gessler A, Granier A, **Grossiord C**, Guyot V, Hättenschwiler S, Jactel H, Jaroszewicz BF, Joly F-X, Jucker T, Koricheva J, Milligana H, Mueller S, Muys B, Nguyen D, Pollastrini M, Ratcliffe S, Raulund-Rasmussen K, Selvi F, Stenlid J, Valladares F, Vesterdal L, Zielinski D, Fischer M (2018). Continental mapping of forest ecosystem functions reveals widespread synergies. *Ecology Letters*, 21, 31-42.
22. **Grossiord C**, Sevanto S, Limousin J-M, Meir P, Mencuccini M, Pangle R, Pockman W, Salmon Y, Zweifel R, McDowell NG (2018) Manipulative experiments demonstrate how precipitation change could alter controls of plant water use. *Experimental and Environmental Botany*, invited contribution to the Special Issue "Experiments with trees", DOI: 10.1016/j.envexpbot.2017.12.010
23. McDowell NG, Allen C, Anderson-Teixeira K, Brando P, Brienens R, Chambers J, Christoffersen B, Davies S, Doughty C, Duque A, Espirito-Santo F, Fisher R, Fontes C, Galbraith D, Goodsman D, **Grossiord C**, Johnson D, Hartmann H, Holm J, Kassim Abd R, Keller M, Koven C, Kueppers L, Kumagai T, Muller-Landau H, Malhi Y, McMahon S, Mencuccini M, Meir P,

- Moorcroft P, Phillips O, Powell T, Sierra C, Sperry J, Warren J, Xu C, Xu X (2018) Drivers and mechanisms of tree mortality in moist tropical forests. *New Phytologist*, 219, 851-869.
24. Forner, A., Valladares, F., Bonal, D., Granier, A., **Grossiord, C.**, Aranda, I. (2018) Extreme droughts affecting Mediterranean tree species' growth: the importance of timing and intensity. *Tree Physiology*, 38, 1127-1137.
25. McBranch NA, **Grossiord C**, Borrego I, McDowell NG (2018) Lack of acclimation of piñon pine and juniper leaf area: sapwood area ratio in response to precipitation reduction and warming. *Tree Physiology*, doi: 10.1093/treephys/tpyo66.
26. **Grossiord C**, Gessler A, Reed S, Borego I, Collins AD, Dickman LT, Sevanto S, Vilagrosa A, Schoneberg L, McDowell NG (2018) Reductions in tree performance during hotter droughts are mitigated by shifts in nitrogen cycling. *Plant, Cell & Environment*, 41, 2627-2637.
27. **Grossiord C**, Sevanto S, Bonal D, Borego I, Dawson TE, Ryan M, McDowell NG (2018) Prolonged warming and drought modify the belowground interactions for water among coexisting plants. *Tree Physiology*, doi: 10.1093/treephys/tpyo80.
28. Lander B, Bruelheide H, van der Plas F, Kambach S, Ratcliffe S, Jucker T, Allan E, Ampoorter E, Barbaro L, Bastias C, Bauhus J, Benavides R, Bonal B, Bouriaud O, Bussotti F, Carnol M, Castagneyrol B, Charbonnier Y, Češko E, Dawud S, De Wandeler H, Domisch T, Finér L, Fischer M, Fotelli M, Gessler A, Granier A, **Grossiord C**, Guyot V, Hättenschwiler S, Jactel H, Jaroszewicz B, Joly F-X, Kändler G, Koricheva J, Lehtonen A, Milligan H, Müller S, Muys B, Nguyen D, Pollastrini M, Radoglou K, Raulund-Rasmussen K, Ruiz-Benito P, Selvi Stenlid J, Valladares F, Vesterdal L, Verheyen K, Wirth K, Zavala MA, Scherer-Lorenzen M (2018). Identifying the tree species compositions that maximize ecosystem functioning in European forest. *Journal of Applied Ecology*, doi: 10.1111/1365-2664.13308.
29. Gessler A & **Grossiord C** (2019) Coordinating supply and demand: plant carbon allocation strategy ensuring survival in the long run. *New Phytologist*, in press.
30. Dickman LT, McDowell NG, **Grossiord C**, Collins A, Wolfe BT, Detto M, Wright SJ, Goodsman D, Rogers A, Serbin S, Wu J, Ely KS, Michaletz S, Xu C, Keuppens L, Chambers J (2019) Homeostatic maintenance of non-structural carbohydrates during the 2015-2016 El Niño across a tropical forest precipitation gradient. *Plant, Cell & Environment*, <https://doi.org/10.1111/pce.13501>.
31. **Grossiord C** (2019). Having the right neighbors: how tree species interactions modulate forest vulnerability to drought. *New Phytologist*, <https://doi.org/10.1111/nph.15667>.
32. McDowell NG, **Grossiord C**, Adams HD, Pinzon-Navarro S, Mackay DS, Breshears D, Allen C, Borrego I, Dickman LT, Collins A, Gaylord M, McBranch N, Pockman W, Vilagrosa A, Aukema B, Goodsman D, Xu C (2019). Mechanisms of a coniferous woodland persistence under drought and heat. *Environmental Research Letters*, 14(4), 045014.
33. Winkler DE, **Grossiord C**, Belnap J, Howell A, Ferrenberg S, Smith H, Reed SC (2019). Earlier phenology increases the productivity of arid vegetation under global warming. *Functional Ecology*, DOI: 10.1111/1365-2435.13432.
34. Mackay DS, Savoy PR, **Grossiord C**, Tai X, Pleban JR, Wang DR, McDowell NG, Sperry JS (2019) A coupled model of carbon and hydraulics shows trees are adapted to grow roots towards secondary water sources prior to drought. *New Phytologist*, DOI: 10.1111/nph.16043.
35. **Grossiord C**, Christoffersen B, Alonso-Rodríguez AM, Anderson-Teixeira K, Asbjornsen H, Aparecido LMT, Berry CZ, Baraloto C, Bonal D, Borrego I, Burban B, Chambers JQ, Chistianson DS, Detto M, Faybishenko B, Fontes CG, Fortunel C, Gimenez BO, Jardine KJ, Kueppers L, Miller GR, Moore JW, Negron-Juarez R, Stahl C, Swenson N, Varadharajan C, Warren JM, Wolfe B, Wood TE, Wei L, Xu C, McDowell NG (2019) Transpiration sensitivity to evaporative demand in the neotropics. *Oecologia*, in press.

37. Wu J, Serbin SP, Ely KS, Wolfe BTL, Dickman T, **Grossiord C**, Michaletz ST, Collins AD, Detto M, McDowell NG, Wright J, Rogers A (2019) Evaluating leaf-level models and underlying drivers of stomatal conductance response to seasonal drought in two contrasting tropical forests. *Global Change Biology*, *in press*.
38. **Grossiord C**, Buckley TN, Cernusak LA, Novick KA, Poulter B, Siegwold RTW, Sperry JS, McDowell NG (2019) Plant responses to rising evaporative demand. *New Phytologist*, *in review*.
36. Collins AD, Ryan MG, Adams HD, Dickman LT, Garcia-Forner N, **Grossiord C**, Powers HH, Sevanto S, McDowell NG (2019) Foliar respiration and carbon dynamics of mature piñon and juniper trees in response to experimental drought and heat. *New Phytologist*, *in review*.