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Citation Metrics

Platform	Weblink	h-index	i-10	Citations
Google Scholar	z0ET8yMAAAAJ	22	35	1702
ResearchGate	Georg_Von_Arx	19	34	1353
Scopus	36848027300	20	34	1298
Web of Science	E-1785-2012	19	34	1234

ISI PAPERS PUBLISHED OR ACCEPTED (53)

2019 (3)

- 53 Björklund J, **von Arx G**, Nievergelt D, Wilson R, Van den Bulcke J, Günther B, Loader N, Rydval M, Fonti P, Scharnweber T, Andreu-Hayles L, Buntgen U, D'Arrigo R, Davi N, De Mil T, Esper J, Gärtner H, Geary J, Gunnarson B, Hartl-Maier C, Hevia A, Song H, Janecka K, Kaczka RJ, Kirdyanov AV, Kochbeck M, Yu L, Meko M, Mundo I, Nicolussi K, Oelkers R, Pichler T, Sánchez Salguero R, Schneider L, Schweingruber F, Timonen M, Trouet V, Van Acker J, Verstege A, Villalba R, Wilmking M, Frank D. Scientific merits and analytical challenges of tree-ring densitometry. **Reviews of Geophysics**. In press. Doi: 10.1029/2019RG000642
- 52 Peters RL, Speich M, Pappas C, Kahmen A, **von Arx G**, Graf Pannatier E, Steppe K, Treydte K, Stritih A, Fonti P. **2019**. Contrasting plasticity of stomatal conductance to temperature and drought in mature *Larix decidua* and *Picea abies*. **Plant, Cell & Environment** 42: 1674-1689. <https://doi.org/10.1111/pce.13500>
- 51 Cuny HE, Fonti P, Rathgeber CBK, **von Arx G**, Peters RL, Frank D. **2019**. Couplings in cell differentiation kinetics mitigate air temperature influence on conifer wood anatomy. **Plant, Cell & Environment** 42: 1222-1232. <https://doi.org/10.1111/pce.13464>

2018 (13)

- 50 Anadon-Rosell A, Dawes MA, Fonti P, Hagedorn F, Rixen C, **von Arx G**. **2018**. Xylem anatomical and growth responses of the dwarf shrub *Vaccinium myrtillus* to experimental CO₂ enrichment and soil warming at treeline. **Science of the Total Environment** 642:1172-1183. <https://doi.org/10.1016/j.scitotenv.2018.06.117>
- 49 Prendin AL, Mayr S, Beikircher B, **von Arx G**, Petit G. **2018**. Xylem anatomical adjustments prioritize hydraulic efficiency over safety as Norway spruce trees grow taller. **Tree Physiology** 38:1088-1097. <https://doi.org/10.1093/treephys/tpy065>
- 48 García-Cervigón AI, Olano JM, **von Arx G**, Fajardo A. **2018**. Xylem adjusts to maintain efficiency across a steep precipitation gradient in two coexisting generalist species. **Annals of Botany** 122:461-472. <https://doi.org/10.1093/aob/mcy088>
- 47 Kiorapostolou N, Galiano-Pérez L, **von Arx G**, Gessler A, Petit G. **2018**. Structural and anatomical responses of *Pinus sylvestris* and *Tilia platyphyllos* seedlings exposed to two months of water shortage. **Trees - Structure and Function** 32:1211-1218. <https://doi.org/10.1007/s00468-018-1703-2>
- 46 González-Muñoz N, Sterck F, Torres-Ruiz J, Petit G, Cochard H, **von Arx G**, Lintunen A, Caldeira MC, Capdeville G, Copini P, Gebauer R, Grönlund L, Holttä T, Lobo-do-Vale R, Peltoniemi M, Stritih A, Urban J, Delzon S. **2018**. Quantifying in situ phenotypic variability in the hydraulic properties of four tree species across their distribution range in Europe. **PLoS ONE** 13(5): e0196075. <https://doi.org/10.1371/journal.pone.0196075>

- 45 Castagneri D, Battipaglia G, **von Arx G**, Pacheco A, Carrer M. **2018**. Tree-ring anatomy and carbon isotope ratio show both direct and legacy effects of climate on bimodal xylem formation in *Pinus pinea*. *Tree Physiology* 38:1098–1109. <https://doi.org/10.1093/treephys/tpy036>
- 44 Petit G, **von Arx G**, Kiorapostolou N, Prendin A, Anfodillo T, Caldeira M, Cochard H, Copini P, Crivellaro A, Delzon S, Gebauer R, Gricar J, Grönlund L, Hölttä T, Jyske T, Lavric M, Lintunen A, Lobo-do-Vale R, Peltoniemi M, Peters R, Robert E, Roig Juan S, Senfeldr M, Steppe K, Urban J, Van Camp J, Sterck F. **2018**. Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. *New Phytologist* 218: 1383–1392. <https://doi.org/10.1111/nph.15118>
- 43 Klein T, Zeppel M, Anderegg W, Bloemen J, De Kauwe M, Hudson P, Ruehr N, Powel T, **von Arx G**, Wright I, Nardini A. **2018**. Embolism refilling and resilience against drought-induced mortality: Processes, trade-offs and life history strategies. *Ecological Research* 33:839–855. <http://link.springer.com/article/10.1007/s11284-018-1588-y>
- 42 Rebetz M, **von Arx G**, Gessler A, Graf Pannatier E, Innes JL, Jakob P, Jetel M, Kube M, Nötzli M, Schaub M, Schmitt M, Sutter F, Thimonier A, Waldner P, Häni M. **2018**. Meteorological data series from Swiss long-term forest ecosystem research plots since 1997. *Annals of Forest Science* 75:41. <https://doi.org/10.1007/s13595-018-0709-7>
- 41 Guerin M, Martin-Benito D, **von Arx G**, Griffin KL, Andreu-Hayles L, McDowell NG, Pockman W, Muscarella R, Hamdan R, Gentine G. **2018**. Interannual variations in needle and sapwood traits of *Pinus edulis* branches under an experimental drought. *Ecology and Evolution* 8: 1655–1672. <http://onlinelibrary.wiley.com/doi/10.1002/ece3.3743/full>
- 40 Peters RL, Balanzategui B, Hurley AG, **von Arx G**, Prendin AL, Cuny HE, Björklund J, Frank DC, Fonti P. **2018**. RAPTOR: Row and position tracheid organizer in R. *Dendrochronologia* 47:10–16. <https://doi.org/10.1016/j.dendro.2017.10.003>.
- 39 Hiebert-Giesbrecht MR, Novelo-Rodríguez CY, Escalante-Erosa F, García-Sosa K, Dzib G, Calvo-Irabien LM, **von Arx G**, Peña-Rodríguez LM. **2018**. Herb-chronology as a tool for determining the age of perennial forbs in tropical climates. *Botany* 96:73–78. <https://doi.org/10.1139/cjb-2017-0167>
- 38 Prendin AL, Petit G, Fonti P, Rixen C, Dawes MA, **von Arx G**. **2018**. Axial xylem architecture of *Larix decidua* exposed to CO₂ enrichment and soil warming at the treeline. *Functional Ecology* 32:273–287. [doi: 10.1111/1365-2435.12986](https://doi.org/10.1111/1365-2435.12986)

2017 (8)

- 37 **von Arx G**, Arzac A, Fonti P, Frank D, Zweifel R, Rigling A, Galiano L, Gessler A, Olano JM. **2017**. Responses of sapwood ray parenchyma and non-structural carbohydrates (NSC) of *Pinus sylvestris* to drought and long-term irrigation. *Functional Ecology* 31:1371–1382. [doi:10.1111/1365-2435.12860](https://doi.org/10.1111/1365-2435.12860)
- 36 Olano JM, Gonzalez-Munoz N, Arzac A, Rozas V, **von Arx G**, Delzon S, Garcia-Cervigon AI. **2017**. Sex determines xylem anatomy in a dioecious conifer: hydraulic consequences in a drier world. *Tree Physiology* 37:1493–1502. <https://doi.org/10.1093/treephys/tpx066>
- 35 Björklund J, Seftigen K, Schweingruber FH, Fonti P, **von Arx G**, Bryukhanova MV, Cuny HE, Carrer M, Castagneri D, Frank DC. **2017**. Cell size and wall dimensions drive distinct variability of earlywood and latewood density in Northern Hemisphere conifers. *New Phytologist* 216:728–740. [doi:10.1111/nph.14639](https://doi.org/10.1111/nph.14639) **Highly Cited in Field (WOS)**
- 34 Nielsen SS, **von Arx G**, Damgaard CF, Abermann J, Buchwal A, Büntgen U, Treier UA, Barfod AS, Normand S. **2017**. Linking spatio-temporal variability of climate, xylem anatomical features, and growth of *Betula nana* from Western Greenland. *Arctic, Antarctic, and Alpine Research* 49:359–371. [doi:10.1657/AAAR0016-041](https://doi.org/10.1657/AAAR0016-041)
- 33 Carrer M, Castagneri D, Prendin AL, Petit G, **von Arx G**. **2017**. Retrospective analysis of wood anatomical traits reveals a recent extension in tree cambial activity in two high-elevation conifers. *Frontiers in Plant Sciences* 8:737. [doi:10.3389/fpls.2017.00737](https://doi.org/10.3389/fpls.2017.00737)
- 32 Prendin AL, Petit G, Carrer M, Fonti P, Björklund J, **von Arx G**. **2017**. New research perspectives from a novel approach to quantify tracheid wall thickness. *Tree Physiology* 37:976–983. <https://doi.org/10.1093/treephys/tpx037>

31 Petrucco L, Nardini A, **von Arx G**, Saurer M, Cherubini P. **2017**. Isotope signals and anatomical features in tree rings suggest a role for hydraulic strategies in diffuse drought-induced dieback of *Pinus nigra*. *Tree Physiology* 37:523-535. <https://doi.org/10.1093/treephys/tpx031>

30 Castagneri D, Fonti P, **von Arx G**, Carrer M. **2017**. How does climate influence xylem morphogenesis over the growing season? Insights from long-term intra-ring anatomy in *Picea abies*. *Annals of Botany* 119:1011-1020. [doi:10.1093/aob/mcw274](https://doi.org/10.1093/aob/mcw274)

2016 (4)

29 **von Arx G**, Crivellaro A, Prendin AL, Cufar K, Carrer M. **2016**. Quantitative wood anatomy - practical guidelines. *Frontiers in Plant Sciences* 7:781.

28 Shi S, Li Z, **von Arx G**, Lü Y, Wu X, Wang X, Liu G, Fu B. **2016**. Roots of forbs sense climate fluctuations in the semi-arid Loess Plateau: Herb-chronology based analysis. *Scientific Reports* 6:28435.

27 van der Maaten E, van der Maaten-Theunissen M, Smiljanic M, Rossi S, Simard S, Wilmking M, Deslauriers A, Fonti P, **von Arx G**, Bouriaud O. **2016**. dendrometeR: analyzing the pulse of trees in R. *Dendrochronologia* 40:12-16.

26 Lintunen A, Paljakka T, Jyske T, Peltoniemi M, Sterck F, **von Arx G**, Cochard H, Copini P, Caldeira MC, Delzon S, Gebauer R, Grönlund L, Kiorapostolou N, Lechthaler S, Lobo-do-Vale R, Peters R, Petit G, Prendin AL, Salmon Y, Steppe K, Urban J, Roig Juan S, Hölttä T. **2016**. Osmolality and non-structural carbohydrate composition in the secondary phloem of trees across a latitudinal gradient in Europe. *Frontiers in Plant Sciences* 7:726.

2015 (7)

25 **von Arx G**, Arzac A, Olano JM, Fonti P. **2015**. Assessing conifer ray parenchyma for ecological studies: pitfalls and guidelines. *Frontiers in Plant Sciences* 6:1016

24 Carrer M, **von Arx G**, Castagneri D, Petit G. **2015**. Distilling allometric and environmental information from time series of conduit size: the standardization issue and its relation to tree hydraulic architecture. *Tree Physiology* 35:27-33. **Highly Cited in Field (WOS)**

23 Fonti P, Tabakova M, Kirilyanov A, Bryukhanova M, **von Arx G**. **2015**. Variability of radial ray anatomy of *Larix gmelinii* along a forest productivity gradient in Siberia. *Trees - Structure and Function* 29:1165-1175.

22 Kniesel B, Günther B, Roloff A, **von Arx G**. **2015**. Defining ecologically relevant vessel parameters in *Quercus robur* L. for use in dendroecology: a pointer year and recovery time case study in Central Germany. *Trees - Structure and Function* 29:1041-1051.

21 Gärtner H, Cherubini P, Fonti P, **von Arx G**, Schneider L, Nievergelt D, Verstege A, Bast A, Schweingruber FH, Büntgen U. **2015**. Technical challenges in tree-ring research including wood anatomy and dendroecology. *Journal of Visualized Experiments*. e52337, [doi:10.3791/52337](https://doi.org/10.3791/52337). <http://www.jove.com/video/52337>

20 Venegas-González A, **von Arx G**, Peres Chagas M, Tomazello Filho M. **2015**. Plasticity in xylem anatomical traits of two tropical species in response to intra-seasonal climate variability. *Trees - Structure and Function*. 29:423-435.

19 Büntgen U, Egli S, Schneider L, Rigling A, Camarero JJ, Oliach D, Colinas C, Fischer CR, **von Arx G**, Tegel W, Martínez-Peña F. **2015**. Long-term irrigation effects on Spanish holm oak growth and its black truffle symbiont. *Agriculture, Ecosystems & Environment* 202:148-159.

2014 (2)

18 **von Arx G**, Carrer M. **2014**. ROXAS - a new tool to build centuries-long tracheid-lumen chronologies in conifers. *Dendrochronologia* 32:290-293.

17 Eilmann B, Sterck F, Wegner L, de Vries S, **von Arx G**, Mohren F, den Ouden J & Sass-Klaassen U. **2014**. Wood structural differences between northern and southern beech provenances growing at a moderate site *Tree Physiology* 34:882-893

2013 (6)

- 16 **von Arx G**, Graf Pannatier E, Thimonier A & Rebetez M. **2013**. Microclimate in forests with varying leaf area index and soil moisture: potential implications for seedling establishment in a changing climate. *Journal of Ecology* 101:1201-1213
- 15 **von Arx G**, Dobbertin M & Rebetez M. **2013**. Detecting and correcting sensor drifts in long-term weather data. *Environmental Monitoring and Assessment* 185:4483-4489
- 14 **von Arx G**, Kueffer C & Fonti P. **2013**. Quantifying vessel grouping – added value from the image analysis tool ROXAS. *IAWA Journal* 34:433-445
- 13 Olano JM, Eugenio M, Almeria I & **von Arx G**. **2013**. Under pressure: how a Mediterranean high-mountain forb coordinates growth and hydraulic xylem anatomy in response to temperature and water constraints. *Functional Ecology* 27:1295–1303.
- 12 Wegner L, **von Arx G**, Sass-Klaassen U & Eilmann B. **2013**. ROXAS – an efficient and accurate tool to detect vessels in diffuse-porous species. *IAWA Journal* 34:425-432
- 11 Olano JM, Arzac A, García-Cervigón AI, **von Arx G** & Rozas V. **2013**. New star on the stage: Parenchyma rays have a stronger climatic signal than ring width. *New Phytologist* 198:486-495

2012 (2)

- 10 **von Arx G**, Dobbertin M & Rebetez M. **2012**. Spatio-temporal effects of forest canopy on understory microclimate in a long-term experiment in Switzerland. *Agricultural and Forest Meteorology* 166-167:144-155
- 9 **von Arx G**, Archer SR & Hughes MK. **2012**. Long-term functional plasticity in plant hydraulic architecture in response to supplemental moisture. *Annals of Botany* 109:1091-1100

Until 2010 (8)

- 8 Fonti P, **von Arx G**, García-González I, Eilmann B, Sass-Klaassen U, Gärtner H & Eckstein D. **2010**. Studying global change through investigation of the plastic responses of xylem anatomy in tree rings. *New Phytologist* 185:42-53 **Highly Cited in Field (WOS)**
- 7 Fonti P, Eilmann B, García-González I & **von Arx G**. **2009**. Expeditious building of ring-porous earlywood vessel chronologies without losing signal information. *Trees - Structure and Function* 23:665-671
- 6 **von Arx G** & Dietz H. **2006**. Growth rings in the roots of temperate forbs are robust annual markers, *Plant Biology* 8:224-233
- 5 **von Arx G**, Edwards PJ & Dietz H. **2006**. Evidence for increased longevity and changes in growth patterns in high-altitude populations of three perennial forbs, *Ecology* 87:665-674
- 4 **von Arx G** & Dietz H. **2005**. Automated image analysis of annual rings in the roots of perennial forbs. *International Journal of Plant Sciences* 166:723-732
- 3 Dietz H & **von Arx G**. **2005**. Climatic fluctuation causes large-scale synchronous variation in radial increments of the main roots of northern hemisphere forbs. *Ecology* 86:327-333
- 2 Dietz H, **von Arx G** & Dietz S. **2004**. Growth increment patterns in the roots of two alpine forbs growing in the centre and at the periphery of a snowbank. *Arctic, Antarctic, and Alpine Research* 36:591-597
- 1 **von Arx** Bosshard A & Dietz H. **2002**. Land-use intensity and border structures as determinants of vegetation diversity in an agricultural area. *Bulletin of the Geobotanical Institute ETH* 68:3-15

ISI PAPERS IN REVIEW (8)

- Perulli GD, Peters RL, **von Arx G**, Grappadelli LC, Manfrini L, Cherubini C. Learning from the past to improve the future: tree ring and wood anatomy as retrospective tools to investigate orchard irrigation management
- Martínez-Sancho E, ..., **von Arx G**, ..., Fonti P. The GenTree Dendroecological Collection: tree-ring and wood density data from seven tree species across Europe

- Björklund J, Seftigen K, Nievergelt D, Fonti P, **von Arx G**. Dendroclimatic potential of dendroanatomy in temperature-sensitive *Pinus sylvestris*.
- Peters RL, **von Arx G**, Nievergelt D, Ibromb A, Stillhard J, Trotsiuk V, Mazurkiewicz A, Babst F. How does axial variation in radial stem growth and wood density affect aboveground biomass increment in mature trees?
- Piermattei A, **von Arx G**, Avanzi C, Fonti P, Gärtner H, Piotti A, Urbinati C, Vendramin GG, Büntgen U, Crivellaro A. Inter-annual and inter-individual wood anatomical trait variation in *Picea abies*.
- Nola P, Bracco F, Assini S, **von Arx G**, Castagneri D. Climate differently affects xylem anatomical traits of *Robinia pseudoacacia* L. and *Quercus robur* L. coexisting in a temperate alluvial forest.
- Guerin M, **von Arx G**, Martin-Benito D, Andreu-Hayles L, Griffin K, McDowell N, Pockman W, Gentine P. Distinct xylem responses to extreme vs. prolonged drought in pine trees.
- Kniesel B, Günther B, Meyer M, Roloff A, **von Arx G**. Different strategies in xylem adjustment between diffuse-porous beech (*Fagus sylvatica* L.) and ring-porous oak (*Quercus robur* L.) – a vessel-based pointer-year analysis.

OTHER PUBLICATIONS (10)

- 10 Remund J, **von Arx G**, Gallien L, Rebetez M, Huber B, Zimmermann NE. **2016**. Klimawandel in der Schweiz - Entwicklung walddrelevanter Klimagrößen. In: *Wald im Klimawandel - Grundlagen für Adaptionsstrategien*. Pluess AR, Augustin S, Brang P (eds.). Haupt, Bern, Switzerland. pp. 23-37. ISBN 978-3-258-07995-0.
- 9 **von Arx G**, Stritih A, Čufar K, Crivellaro A, Carrer M. **2015**. Quantitative Wood Anatomy: From Sample to Data for Environmental Research. doi: 10.13140/RG.2.1.3323.0169 ([youtube.com/watch?v=gz_mJVmn-vQ&feature=youtu.be](https://www.youtube.com/watch?v=gz_mJVmn-vQ&feature=youtu.be))
- 8 Rebetez M, Renaud V, **von Arx G**, Dobbertin M. **2015**. Les forêts modifient la température de l'air. Cahiers de l'ASPAN - Suisse occidentale : organe d'information du groupe de Suisse occidentale de l'Association suisse pour l'aménagement national 2015/1. In: *Adaptation au changement climatique*. - Nyon. - Cahier 1, année 33 (2015), p. 10-13
- 7 **von Arx G**. **2011**. ROXAS – a tool for the quantitative analysis of xylem anatomy in cross-sections and cores of angiosperm trees, shrubs and herbaceous plants. http://www.wsl.ch/roxas/index_EN
- 6 **von Arx G**, Meier K, Dias-Lalcaca P, de Senarclens M, Stössel P. **2009**. Ingenieure und Ingenieurinnen – Macher mit Zukunft.
- 5 **von Arx G**. **2006**. A Tool for the Analysis of Annual Root Rings in Perennial Forbs. *Media Cybernetics' Application Note* (wsl.ch/info/mitarbeitende/vonarx/veroeffentlichungen_EN/edit/ApplicationNote_2006_Mediacy.pdf)
- 4 **von Arx G**, Dietz H. **2005**. Herb-chronology web pages. <https://www1.ethz.ch/plantecology/spotlights/herbchronology>
- 3 **von Arx G**. **2005**. Image-Pro Plus used to develop customized root cross-section analysis application. *Media Cybernetics' Customer Spotlight* (wsl.ch/info/mitarbeitende/vonarx/veroeffentlichungen_EN/edit/CustomerSpotlight_2005_Mediacy.pdf)
- 2 **von Arx G**. **2005**. Technological advancement and ecological applications of herb-chronology. Diss ETH No. 16104
- 1 **von Arx G**. **2001**. Nature meets pasture – Landschaftsökologische Grundlagenerhebungen im Rahmen des Projektes Feld – Wald – Weide. Diploma thesis ETH

INVITED TALKS

- **von Arx G. 2018.** Inside tree rings – studying tree growth from wood cells. Institute of Plant Sciences, University of Bern, Switzerland, 5 November 2018
- **von Arx G. 2018.** Inside tree rings – studying tree growth from wood cells. Institute of Botany, University of Basel, Switzerland, 8 March 2018
- **von Arx G. 2017.** Inside tree rings – studying tree growth and forest dynamics from the bottom up. Tucson, Arizona, USA, 9 May 2017
- **von Arx G. 2016.** DendroGlobal: a global network to study effects of extreme events on tree growth. COST Action STReESS final meeting. Joachimsthal, Berlin, Germany, 13 April 2016
- **von Arx G. 2016.** Structure-function balances in trees across Europe. COST Action STReESS final meeting. Joachimsthal, Berlin, Germany, 13 April 2016
- **von Arx G. 2015.** DendroGlobal – Estimating tree transpiration based on diurnal dendrometer metrics. COST Action STReESS WG meeting. Kranjska Gora, Slovenia, 4 November 2015
- **von Arx G. 2015.** DendroGlobal – Exploiting historical dendrometer data to identify global patterns. COST Action STReESS WG meeting. Prague, Czech Republic, 23 April 2015
- **von Arx G. 2015.** Relationship of hydraulic functionality and xylem anatomy along the stem axis in *Pinus sylvestris*. Seminar: Xylem hydraulics under environmental stresses, University of Padova, 19 February 2015
- **von Arx G. 2013.** Herb-chronology – accessing the ‘book of life’ of perennial forbs by analyzing annual root rings: applications and potential. XI Congreso Nacional de la AEET, Pamplona-Iruña, Spain. 7 May 2013
- **von Arx G & Fonti P. 2012.** Significance of xylem anatomical plasticity. Institute of Botany, Innsbruck, Austria. 28 November 2012
- **von Arx G. 2008.** Growth and anatomical responses of perennial herbs to Climate Change. Institute of Integrative Biology, Swiss Federal Institute of Technology ETH, Zurich, Switzerland. 2 December 2008
- **von Arx G. 2006.** Herb-chronology – Analysis of annual rings in herbaceous plants. Laboratory of Tree-Ring Research, University of Arizona, Tucson, Arizona, USA. 18 October 2006

ORAL PRESENTATIONS AT CONFERENCES (SELECTION)

- **von Arx G, Stoffel M, Esper J, Carrer M. 2018.** Long-term meets high-resolution: 1000-yr cell-anatomical chronology from northern Finland. WorldDendro, Thimphu, Bhutan
- **von Arx G, Carrer M, Björklund J, Fonti P. 2018.** Quantitative wood anatomy opens a weekly to millennial time window in tree-ring research. EGU, Vienna, Austria
- **von Arx G. 2016.** Quantifying xylem anatomy in angiosperms and conifers – live demonstration of ROXAS! Tree Rings in Archaeology, Climatology and Ecology (TRACE 2016), Bialowieza, Poland
- **von Arx G. 2015.** Form fits function – linking hydraulics and xylem anatomy along the stem axis. Xylem International Meeting, Bordeaux, France
- **von Arx G, Beikircher B, Fonti P, Mayr S. 2015.** Form fits function – Linking hydraulics and xylem anatomy along the stem axis. Tree Rings in Archaeology, Climatology and Ecology (TRACE 2015), Sevilla, Spain
- **von Arx G, Arzac A, Fonti P, Frank D, Zweifel R, Gessler A, Galiano L, Rigling A, Olano JM. 2014.** Dynamics of non-structural carbohydrates (NSC) and radial rays in the stem sapwood of *Pinus sylvestris* to drought and long-term irrigation. EuroDendro 2014. Lugo, Spain
- **von Arx G. 2014.** ROXAS – a powerful image analysis tool for tree-ring anatomy. EuroDendro 2014. Lugo, Spain
- **von Arx G. 2013.** Herb-chronology – accessing the ‘book of life’ of perennial forbs by analyzing annual root rings: applications and potential. XI Congreso Nacional de la AEET, Pamplona-Iruña, Spain

- **von Arx G. & Küffer C. 2013.** Differential plasticity of multiple xylem hydraulic features in an invasive forb on Hawaii. International Symposium on Wood Structure in Plant Biology and Ecology, Napoli, Italy
- **von Arx G. Dobbertin, M., Rebetz, M. 2011.** Spatio-temporal relationships between below-canopy and open-field microclimate. 12th EEF Congress, Avila, Spain [cancelled due to private affairs]
- **von Arx G. 2007.** Measuring of annual rings and intra-annual vessel features using automated image analysis. 2nd Workshop on Quantitative Wood Anatomy, Birmensdorf, Switzerland
- **von Arx G. 2007.** 'Biography' of perennial forbs: how much is recorded in the roots? 20th Annual Conference of the Ecological Society of Germany, Switzerland and Austria - Section Plant Population Biology, Basel, Switzerland
- **von Arx G & Dietz H. 2004.** Extracting ecological information from annual rings in the roots of forbs using a 'Root Chronolizer': potential and pitfalls. 17th Annual Conference of the Ecological Society of Germany, Switzerland and Austria (GfOe) – Section Plant Population Biology, Regensburg, Germany
- **von Arx G & Dietz H. 2003.** Experimental verification and image analysis of annual growth rings in forbs. 16th Annual Conference of the Ecological Society of Germany, Switzerland and Austria (GfOe) – Section Plant Population Biology, Copenhagen, Denmark
- **von Arx G & Dietz H. 2002.** Experimental verification and image analysis of annual growth rings in forbs. Annual Winter Meeting of the British Ecological Society (BES), York, England

CONFERENCE POSTERS (SELECTION)

- **von Arx G, Carrer M, Prendin AL. 2019.** ROXAS – Quantifying xylem anatomy in angiosperms and conifers. Tree Rings in Archaeology, Climatology and Ecology (TRACE 2019), Caserta, Italy
- **von Arx G, Carrer M, Prendin AL. 2018.** ROXAS – Quantifying xylem anatomy in angiosperms and conifers. WorldDendro, Thimphu, Bhutan
- **von Arx G, Carrer M, Prendin AL. 2018.** ROXAS – Quantifying xylem anatomy in angiosperms and conifers. Tree Rings in Archaeology, Climatology and Ecology (TRACE 2018), Greifswald, Germany
- **Prendin AL, von Arx G. 2016.** ROXAS – Quantifying xylem anatomy in angiosperms and conifers. AmeriDendro, Mendoza, Argentina
- **von Arx G, Steppe K, Fonti P, Zweifel R, Frank D. 2015.** DendroGlobal – Exploiting historical dendrometer data to identify global patterns. Tree Rings in Archaeology, Climatology and Ecology (TRACE 2015), Sevilla, Spain
- **Kniesel BM, von Arx G & Günther B. 2014.** Testing Parameters on Basis of Earlywood Vessels for Signal Quality and Applicability. Tree Rings in Archaeology, Climatology and Ecology (TRACE 2014), Aviemore, Scotland
- **Bryukhanova M, von Arx G & Fonti P. 2013.** Defining tree sample size for vessel chronologies. International Symposium on Wood Structure in Plant Biology and Ecology, Napoli, Italy
- **Wegner L, von Arx G, Sass-Klaassen U & Eilmann B. 2012.** Automatic vessel detection in diffuse-porous trees.
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