

**PAOLO CHERUBINI'S
CURRICULUM VITAE**

Senior Scientist

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Birth	Pisa (Italy), 29 October 1964
Dual Citizenship	Italian and Swiss
Languages	Italian, English, French, German, Spanish
Education	Maturità Classica, Liceo Classico "Galileo Galilei", Pisa (Italy), 1983 Degree in Forest Sciences, Università di Firenze (Italy), 1989 Ph.D. in Botany, Universität Basel (Switzerland), 1996
Employment History	Post-Degree Fellow, Università di Firenze (Italy), 1989-1990 Post-Degree Fellow, Istituto Sperimentale per lo Studio e la Difesa del Suolo, Firenze (Italy), 1990-1992 Fellowship "Hörer in Fortbildung", ETH Zürich (Switzerland), 1992-1993 PhD student, Universität Basel (Switzerland), 1993-1996 Research Scientist (1996-2003), Senior Scientist (2003-present) WSL Swiss Federal Research Institute, Birmensdorf (Switzerland)
Institutional Responsibilities	Deputy Head of the Section <i>Forest ecosystems and ecological risks</i> (2004-2005), Head of the Research Group <i>Tree Physiology</i> (2006-2010), Deputy Head of the Research Unit <i>Dendrosciences</i> (2006-2009), Head (a.i.) of the Research Unit <i>Dendrosciences</i> (2010), Head of the Research Group <i>Dendroecology</i> (2011-2012), a.i. Head of the Research Group <i>Dendrosciences</i> (2017) Member of the Steering Committee Libraries Research Institutes ETH Domain (LIB4RI) (2016-present) Chairman of the Research Commission (FoKo) WSL (2016-2021)
Appointments	Adjunct Professor, Department of Forest and Conservation Sciences, University of British Columbia, Vancouver BC, Canada Adjunct Research Scientist, Lamont-Doherty Earth Observatory, Columbia University, Palisades, New York, U.S.A., 2002-present Graduate Faculty Associate (2022-present), Adjunct Faculty (2009-2022), School of Natural Resources, University of Nebraska-Lincoln, Lincoln, Nebraska, U.S.A.

	<p>Guest Professor, Institute of Earth Environment, Chinese Academy of Sciences (CAS), Xian, China, 2012-present</p> <p>Lecturer, Department of Geography, Universität Zürich, Zurich, Switzerland, 2006-present</p>
Supervision students	Main supervisor of 3 PhD-students, co-supervisor of over 35 PhD, 50 Master students and 5 Post-Docs
Teaching	<p>Lecturer at the Universität Zürich (2006-present): GEO818 Class "Dendro-Ecology", Master course GEO351.2 Class "Geochronologie I" Bachelor course GEO399/599 "Toskana Exkursion"</p> <p>Visiting Professor, Università degli Studi di Milano, Milano, Italy (2010, 2015) Guest Lecturer Albert-Ludwigs-Universität Freiburg, Freiburg i.B., Germany (2013, 2014, 2015) Visiting Professor, Università di Sassari, Sassari, Italy (2012) Member of Board, Doctorate School in Agriculture, Università degli Studi di Pisa (2015-2019)</p> <p>Over 100 lectures at graduate or undergraduate courses in many countries all over the world (e.g., Europe, Israel, Russia, China, Japan, Canada, U.S.A., Argentina).</p>
Memberships in Panels, Boards	<p>Honorary Editor, Editor in Chief (2003-2022) <i>Dendrochronologia</i>, 2022-... Editor, <i>iForest</i>, 2004-present Member Editorial Board of <i>Journal of Vegetation Science</i>, 2007-present Member Editorial Review Board of <i>Tree Physiology</i>, 2014-2016 Member Editorial Board of <i>Journal of Forest Planning</i> 2018-present Associate Editor, <i>Tree-Ring Research</i>, 2002-2011 Associate Editor, <i>Canadian Journal Forest Research</i>, 2011-2021 Member Editorial Board of <i>Geochronometria</i>, 2007-2018 Member Editorial Board of <i>Scientifica</i>, 2012-2012 Member Editorial Board of <i>Scientific Reports</i>, 2017-2017 Swiss national representative, International Long Term Ecological Research (ILTER) (1998-2002)</p>
Scientific Organizations	British Ecological Society (BES) (1999-...), Tree-Ring Society (1997-...), Società Italiana di Selvicoltura ed Ecologia Forestale (SISEF) (1997-...), Asian Dendrochronological Association ADA (2015-...)
Organization of Meetings	<p>Tree Rings and People (Davos, September 2001) (242 attendees from 43 countries)</p> <p>Several workshops, schools, seminars, conferences and sessions as main or co-organizer</p>
Awards	<p>"Premier's Award, Innovation 2005/06 Finalists" (Victoria, British Columbia, Canada).</p> <p>"2007 Peace Nobel Prize" recipient, as Invited Expert Reviewer, Intergovernmental Panel on Climate Change (IPCC)</p>
Publications	328 scientific publications, 216 of them published in ISI journals, h-index = 43, 200 publications, sum of the times cited: 6,697 (WoS, April 3rd, 2022)

Paolo Cherubini's PUBLICATIONS last five years (totally 332, 219 of them published in peer reviewed, 200 in ISI journals; h-index = 44, 200 publications, sum of the times cited: 7,097 (according to Web of Science, July 21st, 2022)

2017

142) RIEGER I., KOWARIK I., CHERUBINI P., CIERJACKS A. , (2017). A novel dendrochronological approach reveals drivers of carbon sequestration in tree species of riparian forests across spatiotemporal scales. *Science of the Total Environment*, 574, 1261-1275.

143) LEONELLI G., BATTIPAGLIA G., CHERUBINI P., SAURER M., SIEGWOLF R., MAUGERI M., STENNI B., FUSCO S., MAGGI V., PELFINI M. , (2017). Larix decidua d18O tree-ring cellulose mainly reflects the isotopic signature of winter snow in a high-altitude glacial valley of the European Alps. *Science of the Total Environment*, 579, 230-237.

144) SEILER R., KIRCHNER J.W., KRUSIC P.J., TOGNETTI R., HOULIE N., ANDRONICO D., CULLOTTA S., EGLI M., D'ARRIGO R., CHERUBINI P. (2017). Insensitivity of tree-ring growth to temperature and precipitation sharpens the puzzle of enhanced pre-eruption NDVI on Mt. Etna (Italy). *PLoS ONE*, 12, 1, e0169297. doi:10.1371/journal.pone.0169297, 1-21.

145) GIAMMARCHI F., VACCHIANO G., BERTAGNOLLI A., VENTURA M., PANZACCHI P., CHERUBINI P., TONON G. , (2017). Effects of the lack of forest management on spatiotemporal dynamics of a subalpine *Pinus cembra* forest. *Scandinavian Journal of Forest Research*, 32, 2, 142-153.

146) GOMEZ-BRANDON M., ASCHER-JENULL J., BARDELLI T., FORNASIER F., FRAVOLINI G., ARFAIOLI P., CECCHERINI M.T., PIETRAMELLARA G., LAMORSKI K., SLAWINSKI C., BERTOLDI D., EGLI M., CHERUBINI P., INSAM H. , (2017). Physico-chemical and microbiological evidence of exposure effects on *Picea abies* - Coarse woody debris at different stages of decay. *Forest Ecology Management*, 391, 376-389.

147) SEILER R., HOULIE N., CHERUBINI P. , (2017). Tree-ring width reveals the preparation of the 1974 Mt. Etna eruption. *Scientific Reports*, 7:44019 | DOI: 10.1038/srep44019.

148) CAILLERET M., JANSEN S., ROBERT E.M.R., DESOTO L., AAKALA T., ANTOS J.A., BEIKIRCHER B., BIGLER C., BUGMANN H., CACCIANIGA M., ČADA V., CAMARERO J.J., CHERUBINI P., COCHARD H., COYEA M.R., ČUFAR K., DAS A.J., DAVI H., DELZON S., DORMAN M., GEA-IZQUIERDO G., GILLNER S., HAAVIK L.J., HARTMANN H., HEREŞ A.-M., HULTINE K.R., JANDA P., KANE J.M., KHARUK V.I., KITZBERGER T., KLEIN T., KRAMER K., LENS F., LEVANIC T., LINARES CALDERON J.C., LLORET F., LOBO-DO-VALE R., LOMBARDI F., LÓPEZ RODRÍGUEZ R., MÄKINEN H., MAYR S., MÉSZÁROS I., METSARANTA J.M., MINUNNO F., OBERHUBER W., PAPADOPOULOS A., PELTONIEMI M., PETRITAN A.M., ROHNER B., SANGÜESA-BARREDA G., SARRIS D., SMITH J.M., STAN A.B., STERCK F., STOJANOVIC D.B., SUAREZ M.L., SVOBODA M., TOGNETTI R., TORRES-RUIZ J.M., TROTSIUK V., VILLALBA R., VODDE F., WESTWOOD A.R., WYCKOFF P.H., ZAFIROV N., MARTÍNEZ-VILALTA J. , (2017). A synthesis of radial growth patterns preceding tree mortality. *Global Change Biology*, 23, 1675-1690.

149) GIAMMARCHI F., CHERUBINI P., PRETSCH H., TONON G. , (2017). The increase of atmospheric CO2 affects growth potential and intrinsic water-use efficiency of Norway spruce forests: insights from a multi-stable isotope analysis in tree rings of two Alpine chronosequences. *Trees*, 31, 503-515.

150) 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 die-back of *Pinus nigra*. *Tree Physiology*, 37, 523-535.

151) BÜNTGEN U., KRUSIC P.J., VERSTEGE A., SANGUESA-BARREDA G., WAGNER S., CAMARERO J.J., CHARPENTIER LJUNGQVIST F., ZORITA E., OPPENHEIMER C., KONTER O., TEGEL W., GÄRTNER H., CHERUBINI P., REINIG F., ESPER J. , (2017). New tree-ring evidence from the Pyrenees reveals western Mediterranean climate variability since medieval times. *Journal of Climate*, 30, 5295-5318.

152) CHIESI M., FIBBI L., TOGNETTI R., LOMBARDI F., CHIRICI G., TEOBALDELLI M., CHERUBINI P., MASELLI F. , (2017). Assessment of inter-annual forest production variations in Italy by the use of remote-sensing and ancillary data. *European Journal of Remote Sensing*, 50, 1, 577-587.

153) LEONELLI G., COPPOLA A., SALVATORE M.C., BARONI C., BATTIPAGLIA G., GENTILESCA T., RIPULLONE F., BORGHETTI M., CONTE E., TOGNETTI R., MARCHETTI M., LOMBARDI F., BRUNETTI M., MAUGERI M., PELFINI M., CHERUBINI P., PROVENZALE A., MAGGI V. , (2017). Climate signals in a multi-species tree-ring network from central and southern Italy and reconstruction of the late summer temperatures since the early 1700s. *Climate of the Past*, 13, 1451-1471.

2018

154) FRAVOLINI G., TOGNETTI R., LOMBARDI F., EGLI M., ASCHER-JENULL J., ARFAIOLI P., BARDELLI T., CHERUBINI P., MARCHETTI M. , (2018). Quantifying decay progression of deadwood in Mediterranean mountain forests. *Forest Ecology and Management*, 408, 228-237.

155) PERONE A., COCOZZA C., CHERUBINI P., BACHMANN O., GUILLONG M., LASSERRE B., MARCHETTI M., TOGNETTI R. , (2018). Oak tree-rings record spatial-temporal pollution trends from different sources in Terni (Central Italy). *Environmental Pollution*, 233, 278-289.

- 156) LIU Y., TA W., CHERUBINI P., LIU R., WANG Y., SUN C., (2018). Elements content in tree rings from Xi'an, China and environmental variations in the past 30 years. *Science of the Total Environment*, 619-620, 120-126.
- 157) CARDINALE M., LUVISI A., MEYER J.B., SABELLA E., DE BELLIS L., CRUZ A.C., AMPATZIDIS Y., CHERUBINI P., (2018). Specific fluorescence *in situ* hybridization (FISH) test to highlight colonization of xylem vessels by *Xylella fastidiosa* in naturally infected olive trees (*Olea europaea* L.). *Frontiers in Plant Science*, doi: 10.3389/fpls.2018.00431
- 158) CHERUBINI P., (2018). Publishing tree-ring science and serving the *dendrofamily*. *Dendrochronologia*, 48, A1.
- 159) ZALLONI E., BATTIPAGLIA G., CHERUBINI P., DE MICCO V., (2018). Site conditions influence the climate signal of intra-annual density fluctuations in tree rings of *Q. ilex* L. *Annals of Forest Science*, 75, 68.
- 160) AUS DER AU R., AWADA T., HILLER J., BATTIPAGLIA G., SAURER M., CHERUBINI P., (2018). Tree rings of *Pinus ponderosa* and *Juniperus virginiana* show different responses to stand density and water availability in the Nebraska Grasslands. *American Midland Naturalist*, 180, 18-36.
- 161) REBENACK C.E., CHERUBINI P., ANDERSON W.T., (2018). Developing a carbon isotope chronology for a coastal subtropical tree species with variable subannual tree-ring growth. *Journal of Coastal Research*, 34, 4, 828-842.
- 162) CONG Y., WANG A., HE S.H., YU F.H., TOGNETTI R., CHERUBINI P., WANG X., LI M.H., (2018). Evergreen *Quercus aquifolioides* remobilizes more soluble carbon components but less N and P from leaves to shoots than deciduous *Betula ermanii* at the end-season. *iForest*, 11, 517-525.
- 163) BÜNTGEN U., WACKER L., GALVAN J.D., ARNOLD S., ARSENEAULT D., BAILLIE M., BEER J., BERNABEI M., BLEICHER N., BOSWIJK G., BRÄUNING A., CARRER M., CHARPENTIER LJUNGQVIST F., CHERUBINI P., CHRISTL M., CHRISTIE D.A., CLARK P.W., COOK E.R., D'ARRIGO R., DAVI N., EGGERTSSON O., ESPER J., FOWLER A., GEDALOF Z., GENNARETTI F., GRIESSINGER J., GRISSINO-MAYER H., GRUDD H., GUNNARSON B.E., HANTEMIROV R., HERZIG F., HESSL A., HEUSSNER K.-U., JULL A.J.T., KUKARSKIH V., KIRDYANOV A., KOLAR T., KRUSIC P.J., KYNCL T., LARA A., LEQUESNE C., LINDERHOLM H.W., LOADER N.J., LUCKMAN B., MIYAKE F., MYGLAN V.S., NICOLUSSI K., OPPENHEIMER C., PALMER J., PANYUSHKINA I., PEDERSON N., RYBNICEK M., SCHWEINGRUBER F.H., SEIM A., SIGL M., CHURAKOVA (SIDOROVA) O., SPEER J.H., SYNAL H.-A., TEGEL W., TREYDTE K., VILLALBA R., WILES G., WILSON R., WINSHIP L.J., WUNDER J., YANG B., YOUNG G.H.F., (2018). Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. *Nature Communications*, 9, 3605, DOI: 10.1038/s41467-018-06036-0
- 164) ZALLONI E., BATTIPAGLIA G., CHERUBINI P., SAURER M., DE MICCO V., (2018). Contrasting physiological responses to Mediterranean climate variability are revealed by intra-annual density fluctuations in tree rings of *Quercus ilex* L. and *Pinus pinea* L. *Tree Physiology*, 38, 1213-1224.
- 165) PALOMBO C., FONTI P., LASSERRE B., CHERUBINI P., MARCHETTI M., TOGNETTI R., (2018). Xylogenesis of compression and opposite wood in mountain pine at a Mediterranean treeline. *Annals of Forest Science*, 75, 93.
- 166) ISAAC-RENTON M., MONTWE D., HAMANN A., SPIECKER H., CHERUBINI P., TREYDTE K., (2018). Northern forest tree populations are physiologically maladapted to drought. *Nature Communications*, 9, 5254, DOI: 10.1038/s41467-018-07701-0
- 2019**
- 167) TIWARI A., CHERUBINI P., (2019). The unexplored potential of tree rings from Himalayan pristine forests to understand their history and provide answers to water and forest management in Bhutan. *Dendrochronologia*, 53, 37-39.
- 168) LYU L., ZHANG Q.-B., PELLATT M.G., BÜNTGEN U., LI M.-H., CHERUBINI P., (2019). Drought limitation on tree growth at the Northern Hemisphere's highest tree line. *Dendrochronologia*, 53, 40-47.
- 169) CAILLERET M., DAKOS V., JANSEN S., ROBERT E.M.R., AAKALA T., AMOROSO M.M., ANTOS J.A., BIGLER C., BUGMANN H., CACCIANIGA M., CAMARERO J.J., CHERUBINI P., COYEA M.R., CUFAR K., DAS A.J., DAVI H., GEIZQUIERDO G., GILLNER S., HAAVIK L.J., HARTMANN H., HERES A.-M., HULTINE K.R., JANDA P., KANE J.M., KHARUK V.I., KITZBERGER T., KLEIN T., LEVANIĆ T., LINARES J.C., LOMBARDI F., MÄKINEN H., MÉSZÁROS I., METSARANTA J.M., OBERHUBER W., PAPADOPOULOS A., PETRITAN A.M., ROHNER B., SANGÜESA-BARREDA G., SMITH J.M., STAN A., STOJANOVIC D.B., SUAREZ M.L., SVOBODA M., TROTSIUK V., VILLALBA R., WESTWOOD A., WYCKOFF P., MARTÍNEZ-VILALTA J., (2019). Early-warning signals of individual tree mortality based on annual radial growth. *Frontiers in Plant Science*, 9, 1964.
- 170) CHENG X., LYU L., BÜNTGEN U., CHERUBINI P., QIU H., ZHANG Q.-B., (2019). Increased El Niño–Southern Oscillation sensitivity of tree growth on the southern Tibetan Plateau since the 1970s. *International Journal of Climatology*, 39, 3465–3475.
- 171) MENDES M.P., CHERUBINI P., PLIENINGER T., RIBEIRO L., COSTA A., (2019). Climate effects on stem radial growth of *Quercus suber* L.: does tree size matter? *Forestry*, 92, 73-84.
- 172) VEZZOLA L.C., MICHELOZZI M., CALAMAI L., GONTHIER P., GIORDANO L., CHERUBINI P., PELFINI M., (2019). Tree-ring volatile terpenes show potential to indicate fungal infection in asymptomatic mature Norway spruce trees in the Alps. *Forestry*, 92, 2, 149-156.

173) BUMANN E., AWADA T., WARDLOW B., HAYES M., OKALEBO J., HELZER C., MAZIS A., HILLER J., CHERUBINI P., (2019). Assessing responses of *Betula papyrifera* to climate variability in a remnant population along the Niobrara River Valley in Nebraska U.S. through dendroecological and remote sensing techniques. *Canadian Journal Forest Research*, 49, 423-433.

174) ZALLONI E., BATTIPAGLIA G., CHERUBINI P., SAURER M., DE MICCO V. (2019). Wood growth in pure and mixed *Quercus ilex* L. forests: drought influence depends on site conditions. *Frontiers in Plant Science*, 10, 397.

175) CERRATO R., CHERUBINI P., BÜNTGEN U., COPPOLA A., SALVATORE M.C., BARONI C., (2019). Tree-ring-based reconstruction of larch budmoth outbreaks in the Central Italian Alps since 1774 CE. *iForest*, 12, 289-296.

176) LIU Y., CAI W., SUN C., SONG H., COBB K.M., LI J., LEAVITT S.W., WU L., CAI Q., LIU R., NG B., CHERUBINI P., BÜNTGEN U., SONG Y., WANG G., LEI Y., YAN L., LI Q., MA Y., FANG C., SUN J., LI X., CHEN D., LINDERHOLM H.W. (2019). Anthropogenic aerosols cause recent pronounced weakening of Asian Summer Monsoon relative to last four centuries. *Geophysical Research Letters*, 46, 5469-5479, 10.1029/2019GL082497.

177) DE MICCO V., CARRER M., RATHGEBER C.B.K., CAMARERO J.J., VOLTAS J., CHERUBINI P., BATTIPAGLIA G., (2019). From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. *IAWA Journal*, 40, 155-182.

178) LEONELLI G., BATTIPAGLIA G., CHERUBINI P., SAURER M., SIEGWOLF R.T.W., MAUGERI M., STENNI B., FUMAGALLI M.L., PELFINI M., MAGGI V., (2019). Tree-ring $\delta^{18}\text{O}$ from an Alpine catchment reveals changes in glacier stream water inputs between 1980 and 2010. *Arctic, Antarctic, and Alpine Research*, 51, 250-264.

179) COCOZZA C., PERONE A., GIORDANO C., SALVATICI M.C., PIGNATTELLI S., RAI0 A., SCHAUB M., SEVER K., INNES J.L., TOGNETTI R., CHERUBINI P., (2019). Silver nanoparticles enter into the tree stem faster through leaves than through roots. *Tree Physiology*, 39, 1251-1261.

180) CHERUBINI P., (2019). *Dendrochronologia* in the scholarly publishing world: How can a small fish survive in a pool of sharks? *Dendrochronologia*, 58, 125647.

181) VUARIDEL M., CHERUBINI P., METTRA F., VENNEMANN T., LANE S.N., (2019). Climate-driven change in the water sourced by trees in a de-glaciating proglacial fore-field, Torres del Paine, Chile. *Ecology*, 12, e2133.

182) VITALI F., RAI0 A., SEBASTIANI F., CHERUBINI P., CAVALIERI D., COCOZZA C., (2019). Environmental pollution effects on plant microbiota: the case study of poplar bacterial-fungal response to silver nanoparticles. *Applied Microbiology and Biotechnology*, 103: 8215-8227.

183) AWADA T., SKOLAUT K., BATTIPAGLIA G., SAURER M., RIVEROS-IREGUI D., SCHAPAUGH A., HUDDLE J., ZHOU X., DERREL M., CHERUBINI P., (2019). Tree-ring stable isotopes show different ecophysiological strategies in native and invasive woody species of a semi-arid riparian ecosystem in the Great Plains of the USA. *Ecology*, 12, e2074.

2020

184) VERGINE M., MEYER J.B., CARDINALE M., SABELLA E., HARTMANN M., CHERUBINI P., DE BELLIS L., LUVISI A., (2020). The *Xylella fastidiosa*-resistant olive cultivar "Leccino" has stable endophytic microbiota during the Olive Quick Decline Syndrome (OQDS). *Pathogens*, 9, 35, doi:10.3390/pathogens9010035

185) KATTGE J., BÖNISCH G., DIAZ S., ... CHERUBINI P., ..., WIRTH C., (2020). TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, 26, 119-188.

186) REINIG F., CHERUBINI P., ENGELS S., ESPER J., GUIDOBALDI G., JÖRIS O., LANE C., NIEVERGELT D., OPPENHEIMER C., PARK C., PFANZ H., RIEDE F., SCHMINCKE H.-U., STREET M., WACKER L., BÜNTGEN U., (2020). Towards a dendrochronologically refined date of the Laacher See eruption around 13,000 years ago. *Quaternary Science Reviews*, 229, 106128.

187) BALZANO A., BATTIPAGLIA G., CHERUBINI P., DE MICCO V., (2020). Xylem plasticity in *Pinus pinaster* and *Quercus ilex* growing at sites with different water availability in the Mediterranean region: relations between intra-annual density fluctuations and environmental conditions. *Forests*, 11, 379; doi:10.3390/f11040379.

188) BÜNTGEN U., LIEBHOLD A., NIEVERGELT D., WERMELINGER B., ROQUES A., REINIG F., KRUSIC P.J., PIERMATTEI A., EGLI S., CHERUBINI P., ESPER J., (2020). Return of the moth: rethinking the effect of climate on insect outbreaks. *Oecologia*, 192, 543-552.

189) SONG H., MEI R., LIU Y., NIEVERGELT D., VERSTEGE A., CHERUBINI P., LIU R., SUN C., LI Q., CHEN L., ZENG X., GUO J., (2020). Maximum July–September temperatures derived from tree-ring densities on the western Loess Plateau, China. *International Journal of Climatology*, DOI: 10.1002/joc.6650

190) PANDEY S., CHERUBINI P., SAURER M., CARRER M., PETIT G., (2020). Effects of climate change on treeline trees in Sagarmatha (Mt. Everest, Central Himalaya). *Journal Vegetation Science*, <https://doi.org/10.1111/jvs.12921>

191) BATTIPAGLIA G., AWADA T., AUS DER AU R., INNANGI M., SAURER M., CHERUBINI P., (2020). Increasing atmospheric CO₂ concentrations outweighs effects of stand density in determining growth and water use efficiency in *Pinus ponderosa* of the semi-arid grasslands of Nebraska (U.S.A.). *Global Ecology and Conservation*, 24, e01274.

192) CHERUBINI P., GARGANO A., GROB M., NIEVERGELT D., PASSARDI S. , (2020). Dendrochronologia's tutoring recipes: How to take samples for small basic dendroecological studies. *Dendrochronologia*, 64, 125774.

193) SABELLA E., MORETTI S., GÄRTNER H., LUVISI A., DE BELLIS L., VERGINE M., SAURER M., CHERUBINI P. , (2020). Increase in ring width, vessel number, and d18O in olive trees infected with *Xylella fastidiosa*. *Tree Physiology*, 44, 1583-1594.

2021

194) MU Y.-M., ZHANG Q.-B., FANG O., LYU L., CHERUBINI P. , (2021). Pervasive tree-growth reduction in Tibetan juniper forests. *Forest Ecology and Management*, 480, 118642.

195) YANG Y., WANG A., CHERUBINI P., KRÄUCHI N., NI Y., WU Z., HE H.S., LI M.-H., SCHAUB M. , (2021). Physiological and growth responses to defoliation of older needles in *Abies alba* trees grown under two light regimes. *Forest Ecology Management*, 484, 118947.

196) SONG H., MEI R., LIU Y., NIEVERGELT D., VERSTEGE A., CHERUBINI P., LIU R., SUN C., LI Q., CHEN L., ZENG X., GUO J. , (2021). Maximum July–September temperatures derived from tree-ring densities on the western Loess Plateau, China. *International Journal of Climatology*, DOI: 10.1002/joc.6650, 41, 779-790.

197) PALANDRANI C., MOTTA R., CHERUBINI P., CUROVIC M., DUKIC V., TONON G., CECCON C., PERESSOTTI A., ALBERTI G. , (2021). Role of photosynthesis and stomatal conductance on the long-term rising of intrinsic water use efficiency in dominant trees in three old-growth forests in Bosnia-Herzegovina and Montenegro. *iForest*, 14, 53-60.

198) FANG O., ZHANG Q.-B., VITASSE Y., ZWEIFEL R., CHERUBINI P. , (2021). The frequency and severity of past droughts shape the drought sensitivity of juniper trees on the Tibetan Plateau. *Forest Ecology Management*, 486, 118968.

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