

# Philippe Choler

<https://publons.com/researcher/A-7270-2008/>

**Web of Science ResearcherID: A-7270-2008**

## Current affiliations:

- Centre National de la Recherche Scientifique (CNRS) until present
- Universite Grenoble Alpes (UGA) until present

## Publications

### PUBLICATION METRICS

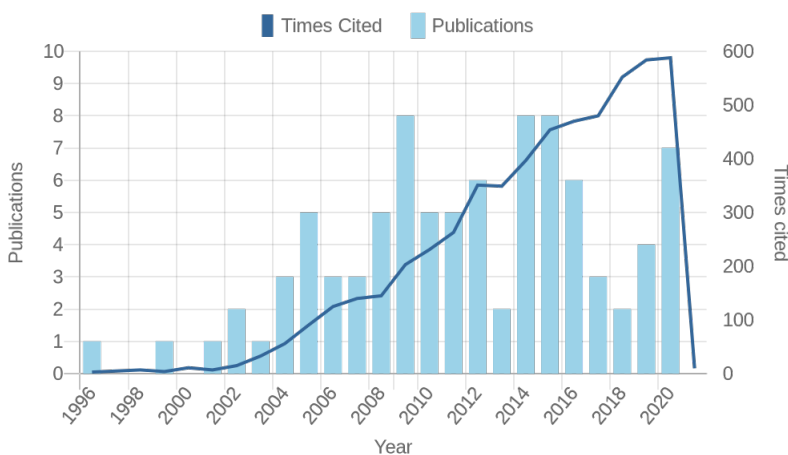
For manuscripts published from date range January 1989 - December 2020

CITATIONS	H-INDEX	PUBLICATIONS	WEB OF SCIENCE PUBLICATIONS
5574	35	89	89

For all time

CITATIONS	H-INDEX	PUBLICATIONS	WEB OF SCIENCE PUBLICATIONS
5574	35	89	89

### PUBLICATION IMPACT OVER TIME



### PUBLISHING SUMMARY

For manuscripts published from date range January 1989 - December 2020

(4) Perspectives in Plant Ecology, Evolution... **WOS**

(4) Oikos **WOS**

(4) Journal of Vegetation Science	WOS	(3) Ecology	WOS
(3) Molecular Ecology	WOS	(3) Global Ecology and Biogeography	WOS
(3) Arctic, Antarctic, and Alpine Research	WOS	(3) Annals of Botany	WOS
(3) Remote Sensing	WOS	(2) Ecology Letters	WOS
(2) Biogeosciences	WOS	(2) Journal of Biogeography	WOS
(2) Plos One	WOS	(2) Science of the Total Environment	WOS
(2) Plant Ecology (formerly Vegetatio)	WOS	(2) Biology Letters	WOS
(2) Global Change Biology	WOS	(2) Agricultural and Forest Meteorology	WOS
(2) Diversity and Distributions	WOS	(2) Journal of Experimental Botany	WOS
(2) Alpine Botany	WOS	(2) Journal of Classification	WOS
(2) Ecography	WOS	(2) Scientific Data	WOS
(1) Frontiers in Microbiology	WOS	(1) The ISME Journal	WOS
(1) Nature	WOS	(1) Soil Biology and Biochemistry	WOS
(1) Environmental Microbiology	WOS	(1) Eco.mont	WOS
(1) Nature Communications	WOS	(1) Plant Biology	WOS
(1) Fungal Diversity	WOS	(1) Applied and Environmental Microbiology	WOS
(1) Ecological Research	WOS	(1) Oncogene	WOS
(1) European Journal of Soil Biology	WOS	(1) Ecological Applications	WOS
(1) Basic and Applied Ecology	WOS	(1) Functional Ecology	WOS
(1) Agriculture, Ecosystems and Environm...	WOS	(1) Plant and Soil	WOS
(1) Flora	WOS	(1) Ecosystems	WOS
(1) Proceedings of the National Academy o...	WOS	(1) Astrophysics and Space Science	WOS
(1) Oecologia	WOS	(1) Astronomy & Astrophysics	WOS
(1) New Phytologist	WOS	(1) Environmental Research Letters	WOS
(1) Fourrages	WOS	(1) Ecological Indicators	WOS
(1) Yeast	WOS		

#### MANUSCRIPTS PUBLISHED (89)

From date range January 1989 - December 2020

**TIMES CITED  
(ALL TIME)**

## Topsoil organic matter build-up in glacier forelands around the world

Published: Dec 2020 in Global Change Biology

DOI: 10.1111/GCB.15496

0

<p>A global database for metacommunity ecology, integrating species, traits, environment and space</p> <p>Published: Dec 2020 in Scientific Data DOI: 10.1038/S41597-019-0344-7</p>	3
<p>Rainfall continentality, via the winter Gams angle, provides a new dimension to biogeographical distributions in the western United States</p> <p>Published: Nov 2020 in Global Ecology and Biogeography DOI: 10.1111/GEB.13223</p>	0
<p>Climate, soil resources and microbial activity shape the distributions of mountain plants based on their functional traits</p> <p>Published: Oct 2020 in Ecography DOI: 10.1111/ECOG.05269</p>	0
<p>Biogeography of intraspecific trait variability in matgrass (<i>Nardus stricta</i>): High phenotypic variation at the local scale exceeds large scale variability patterns</p> <p>Published: Oct 2020 in Perspectives in Plant Ecology, Evolution and Systematics DOI: 10.1016/J.PPEES.2020.125555</p>	0
<p>Assessing the effects of earlier snow melt-out on alpine shrub growth: The sooner the better?</p> <p>Published: Aug 2020 in Ecological Indicators DOI: 10.1016/J.ECOLIND.2020.106455</p>	2
<p>A global database for metacommunity ecology, integrating species, traits, environment and space (vol 7, 6, 2020)</p> <p>Published: Mar 2020 in Scientific Data DOI: 10.1038/S41597-020-0420-Z</p>	0
<p>Improved Mapping of Mountain Shrublands Using the Sentinel-2 Red-Edge Band</p> <p>Published: Dec 2019 in Remote Sensing DOI: 10.3390/RS11232807</p>	2
<p>Drought offsets the positive effect of summer heat waves on the canopy greenness of mountain grasslands</p> <p>Published: Oct 2019 in Agricultural and Forest Meteorology DOI: 10.1016/J.AGRFORMET.2019.107617</p>	5
<p>Can a diversity-productivity-disturbance model help analyse the influence of agricultural practices on plant diversity in permanent grasslands in the Massif Central?</p> <p>Published: 2019 in Fourrages</p>	0
<p>Climatic Drivers of Greening Trends in the Alps</p> <p>Published: 2019 in Remote Sensing DOI: 10.3390/RS11212527</p>	3

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Winter soil temperature dependence of alpine plant distribution: Implications for anticipating vegetation changes under a warming climate Published: Feb 2018 in Perspectives in Plant Ecology, Evolution and Systematics DOI: 10.1016/J.PPEES.2017.11.002	14
Early stage litter decomposition across biomes Published: 2018 in Science of the Total Environment DOI: 10.1016/J.SCITOTENV.2018.01.012	65
Plant community structure and nitrogen inputs modulate the climate signal on leaf traits Published: Sep 2017 in Global Ecology and Biogeography DOI: 10.1111/GEB.12623	20
Sensitivity of community-level trait-environment relationships to data representativeness: A test for functional biogeography Published: Mar 2017 in Global Ecology and Biogeography DOI: 10.1111/GEB.12573	17
Observed long-term greening of alpine vegetation-a case study in the French Alps Published: 2017 in Environmental Research Letters DOI: 10.1088/1748-9326/AA84BD	20
The rich sides of mountain summits - a pan-European view on aspect preferences of alpine plants Published: Aug 2016 in Journal of Biogeography DOI: 10.1111/JBI.12835	43
On the Importance of High-Resolution Time Series of Optical Imagery for Quantifying the Effects of Snow Cover Duration on Alpine Plant Habitat Published: Jun 2016 in Remote Sensing DOI: 10.3390/RS8060481	14
Evolution and biogeography of the cushion life form in angiosperms Published: Jun 2016 in Perspectives in Plant Ecology, Evolution and Systematics DOI: 10.1016/J.PPEES.2016.03.002	20
Indicators of climate: Ecrins National Park participates in long-term monitoring to help determine the effects of climate change Published: Jan 2016 in Eco.mont DOI: 10.1553/ECO.MONT-8-1S44	3
Contrasting microbial biogeographical patterns between anthropogenic subalpine grasslands and natural alpine grasslands Published: 2016 in New Phytologist DOI: 10.1111/NPH.13690	13

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What it takes to invade grassland ecosystems: traits, introduction history and filtering processes	50
Published: 2016 in Ecology Letters DOI: 10.1111/ELE.12556	
Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study	26
Published: Nov 2015 in Science of the Total Environment DOI: 10.1016/J.SCITOTENV.2015.03.141	
Long-lasting modification of soil fungal diversity associated with the introduction of rabbits to a remote sub-Antarctic archipelago	10
Published: Sep 2015 in Biology Letters DOI: 10.1098/RSBL.2015.0408	
Spatio-temporal variations of alpine soil microbial communities - influences of plants, soil chemistry and biogeographic history	0
Published: Sep 2015 in Yeast	
Trait databases: misuses and precautions	12
Published: Aug 2015 in Journal of Vegetation Science DOI: 10.1111/JVS.12325	
Growth response of temperate mountain grasslands to inter-annual variations in snow cover duration	27
Published: Jun 2015 in Biogeosciences DOI: 10.5194/BG-12-3885-2015	
Reconstructing long-term human impacts on plant communities: an ecological approach based on lake sediment DNA	49
Published: Apr 2015 in Molecular Ecology DOI: 10.1111/MEC.13136	
Landscape-scale distribution patterns of earthworms inferred from soil DNA	18
Published: 2015 in Soil Biology and Biochemistry DOI: 10.1016/J.SOILBIO.2015.01.004	
Modelling snow cover duration improves predictions of functional and taxonomic diversity for alpine plant communities	29
Published: 2015 in Annals of Botany DOI: 10.1093/AOB/MCV041	
Accounting for tree line shift, glacier retreat and primary succession in mountain plant distribution models	13
Published: Dec 2014 in Diversity and Distributions DOI: 10.1111/DDI.12238	

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Competition, facilitation and environmental severity shape the relationship between local and regional species richness in plant communities Published: Oct 2014 in <i>Ecography</i> DOI: 10.1111/ECOG.01106	37
Long-term modeling of the forest-grassland ecotone in the French Alps: implications for land management and conservation Published: Jul 2014 in <i>Ecological Applications</i> DOI: 10.1890/13-0910.1	22
Fertilization decreases species diversity but increases functional diversity: A three-year experiment in a Tibetan alpine meadow Published: Jan 2014 in <i>Agriculture, Ecosystems and Environment</i> DOI: 10.1016/J.AGEE.2013.07.015	38
1914-2014: A revised worldwide catalogue of cushion plants 100 years after Hauri and Schroter Published: 2014 in <i>Alpine Botany</i> DOI: 10.1007/S00035-014-0127-X	45
Combining the fourth-corner and the RLQ methods for assessing trait responses to environmental variation Published: 2014 in <i>Ecology</i> DOI: 10.1890/13-0196.1	194
Long livestock farming history and human landscape shaping revealed by lake sediment DNA Published: 2014 in <i>Nature Communications</i> DOI: 10.1038/NCOMMS4211	124
Modelling plant species distribution in alpine grasslands using airborne imaging spectroscopy Published: 2014 in <i>Biology Letters</i> DOI: 10.1098/RSBL.2014.0347	16
Microbes on the cliff: alpine cushion plants structure bacterial and fungal communities Published: Jan 2013 in <i>Frontiers in Microbiology</i> DOI: 10.3389/FMICB.2013.00064	33
Working toward integrated models of alpine plant distribution Published: 2013 in <i>Alpine Botany</i> DOI: 10.1007/S00035-013-0117-4	19
Changes in root-associated microbial communities are determined by species-specific plant growth responses to stress and disturbance Published: Sep 2012 in <i>European Journal of Soil Biology</i> DOI: 10.1016/J.EJSOBI.2012.06.003	12

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Phylogenetic Clustering Reveals Selective Events Driving the Turnover of Bacterial Community in Alpine Tundra Soils	8
Published: May 2012 in Arctic, Antarctic, and Alpine Research DOI: 10.1657/1938-4246-44.2.232	
Relationship between Reproductive Allocation and Relative Abundance among 32 Species of a Tibetan Alpine Meadow: Effects of Fertilization and Grazing	18
Published: Apr 2012 in Plos One DOI: 10.1371/JOURNAL.PONE.0035448	
A biogeographic delineation of the European Alpine System based on a cluster analysis of <i>Carex curvula</i> -dominated grasslands	11
Published: Mar 2012 in Flora DOI: 10.1016/J.FLORA.2012.01.002	
Soil sampling and isolation of extracellular DNA from large amount of starting material suitable for metabarcoding studies	122
Published: 2012 in Molecular Ecology DOI: 10.1111/J.1365-294X.2011.05317.X	
Genetic diversity in widespread species is not congruent with species richness in alpine plant communities	86
Published: 2012 in Ecology Letters DOI: 10.1111/ELE.12004	
Documenting improvement in leaf area index estimates from MODIS using hemispherical photos for Australian savannas	42
Published: Nov 2011 in Agricultural and Forest Meteorology DOI: 10.1016/J.AGRFORMET.2010.12.006	
Contrasting Diversity Patterns of Crenarchaeal, Bacterial and Fungal Soil Communities in an Alpine Landscape	67
Published: May 2011 in Plos One DOI: 10.1371/JOURNAL.PONE.0019950	
Assessment of soil fungal diversity in different alpine tundra habitats by means of pyrosequencing	48
Published: 2011 in Fungal Diversity DOI: 10.1007/S13225-011-0101-5	
A Benchmark Test for Ecohydrological Models of Interannual Variability of NDVI in Semi-arid Tropical Grasslands	7
Published: 2011 in Ecosystems DOI: 10.1007/S10021-010-9403-9	
21st century climate change threatens mountain flora unequally across Europe	325
Published: 2011 in Global Change Biology DOI: 10.1111/J.1365-2486.2010.02393.X	

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No increase in alpine snowbed productivity in response to experimental lengthening of the growing season Published: Aug 2010 in Plant Biology DOI: 10.1111/J.1438-8677.2009.00286.X	24
A simple ecohydrological model captures essentials of seasonal leaf dynamics in semi-arid tropical grasslands Published: Mar 2010 in Biogeosciences DOI: 10.5194/BG-7-907-2010	29
Strain and vegetation effects on local limiting resources explain the outcomes of biotic interactions Published: Feb 2010 in Perspectives in Plant Ecology, Evolution and Systematics DOI: 10.1016/J.PPEES.2009.09.001	69
Counterbalancing effects of competition for resources and facilitation against grazing in alpine snowbed communities Published: 2010 in Oikos DOI: 10.1111/J.1600-0706.2010.18288.X	16
Direct and indirect control by snow cover over decomposition in alpine tundra along a snowmelt gradient Published: 2010 in Plant and Soil DOI: 10.1007/S11104-009-0119-6	92
Microbial diversity in alpine tundra soils correlates with snow cover dynamics Published: Jul 2009 in The ISME Journal DOI: 10.1038/ISMEJ.2009.20	76
Partitioning of functional diversity reveals the scale and extent of trait convergence and divergence Published: Jun 2009 in Journal of Vegetation Science DOI: 10.1111/J.1654-1103.2009.01042.X	170
<sup>13</sup> C and <sup>15</sup> N allocations of two alpine species from early and late snowmelt locations reflect their different growth strategies Published: Apr 2009 in Journal of Experimental Botany DOI: 10.1093/JXB/ERP128	15
The allometry of reproductive biomass in response to land use in Tibetan alpine grasslands Published: Apr 2009 in Functional Ecology DOI: 10.1111/J.1365-2435.2008.01502.X	47
Niche differentiation and distribution of <i>Carex curvula</i> along a bioclimatic gradient in the southwestern Alps Published: Feb 2009 in Journal of Vegetation Science DOI: 10.1111/J.1654-1103.2002.TB02114.X	31

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Small-scale plant species distribution in snowbeds and its sensitivity to climate change	67
Published: 2009 in Plant Ecology (formerly Vegetatio) DOI: 10.1007/S11258-008-9435-9	
Assessment of Microbial Communities by Graph Partitioning in a Study of Soil Fungi in Two Alpine Meadows	19
Published: 2009 in Applied and Environmental Microbiology DOI: 10.1128/AEM.00748-09	
Alpine dandelions originated in the native and introduced range differ in their responses to environmental constraints	18
Published: 2009 in Ecological Research DOI: 10.1007/S11284-008-0498-9	
No positive correlation between species and genetic diversity in European alpine grasslands dominated by <i>Carex curvula</i>	27
Published: Sep 2008 in Diversity and Distributions DOI: 10.1111/J.1472-4642.2008.00489.X	
The role of biomass allocation strategy in diversity loss due to fertilization	47
Published: Aug 2008 in Basic and Applied Ecology DOI: 10.1016/J.BAAE.2007.06.015	
A Simulation of the Importance of Length of Growing Season and Canopy Functional Properties on the Seasonal Gross Primary Production of Temperate Alpine Meadows	29
Published: Jan 2008 in Annals of Botany DOI: 10.1093/AOB/MCM318	
Tannin impacts on microbial diversity and the functioning of alpine soils: a multidisciplinary approach	27
Published: 2008 in Environmental Microbiology DOI: 10.1111/J.1462-2920.2007.01504.X	
Post-glacial history of the dominant alpine sedge <i>Carex curvula</i> in the European Alpine System inferred from nuclear and chloroplast markers	50
Published: 2008 in Molecular Ecology DOI: 10.1111/J.1365-294X.2008.03751.X	
Genetic structure of <i>Hypochaeris uniflora</i> (Asteraceae) suggests vicariance in the Carpathians and rapid post-glacial colonization of the Alps from an eastern Alpine refugium	90
Published: Dec 2007 in Journal of Biogeography DOI: 10.1111/J.1365-2699.2007.01765.X	
Relationship between the AI Resistance of Grasses and their Adaptation to an Infertile Habitat	19
Published: May 2007 in Annals of Botany DOI: 10.1093/AOB/MCM046	

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Increasing species richness on mountain summits: Upward migration due to anthropogenic climate change or re-colonisation? Published: 2007 in Journal of Vegetation Science DOI: 10.1658/1100-9233(2007)18[301:ISROMS]2.0.CO;2	35
Towards a phylogenetic analysis of galaxy evolution: a case study with the dwarf galaxies of the Local Group Published: Sep 2006 in Astronomy & Astrophysics DOI: 10.1051/0004-6361:20065098	16
Astrocladistics: A phylogenetic analysis of galaxy evolution I. Character evolutions and galaxy histories Published: Jun 2006 in Journal of Classification DOI: 10.1007/S00357-006-0003-5	17
Astrocladistics: A phylogenetic analysis of galaxy evolution II. Formation and diversification of galaxies Published: 2006 in Journal of Classification DOI: 10.1007/S00357-006-0004-4	17
Consistent Shifts in Alpine Plant Traits along a Mesotopographical Gradient Published: Nov 2005 in Arctic, Antarctic, and Alpine Research DOI: 10.1657/1523-0430(2005)037[0444:CSIAPT]2.0.CO;2	102
The importance of importance. (vol 109, pg 63, 2005) Published: Oct 2005 in Oikos	2
LINKING PATTERNS AND PROCESSES IN ALPINE PLANT COMMUNITIES: A GLOBAL STUDY Published: Jun 2005 in Ecology DOI: 10.1890/04-1926	167
The importance of importance Published: Apr 2005 in Oikos DOI: 10.1111/J.0030-1299.2005.13557.X	180
Effects of Festuca paniculata on the compensatory growth response of Centaurea uniflora in the French Alps Published: Mar 2005 in Plant Ecology (formerly Vegetatio) DOI: 10.1007/S11258-004-0102-5	5
Rethinking plant community theory Published: Nov 2004 in Oikos DOI: 10.1111/J.0030-1299.2004.13250.X	359
Methyl- <sup>13</sup> C-glucopyranoside in higher plants: accumulation and intracellular localization in Geum montanum L. leaves and in model systems studied by <sup>13</sup> C nuclear magnetic resonance Published: Sep 2004 in Journal of Experimental Botany DOI: 10.1093/JXB/ERH235	18

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Genetic introgression as a potential to widen a species' niche: Insights from 70

alpine *Carex curvula*

Published: 2004 in Proceedings of the National Academy of Sciences

DOI: 10.1073/PNAS.2237235100

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What can biologists say about galaxy evolution? 5

Published: 2003 in Astrophysics and Space Science

DOI: 10.1023/A:1024037118298

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Positive interactions among alpine plants increase with stress 1232

Published: Jun 2002 in Nature

DOI: 10.1038/NATURE00812

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Plant Community Composition and Biomass on Calcareous and Siliceous 57  
Substrates in the Northern French Alps: Comparative Effects of Soil Chemistry  
and Water Status

Published: Feb 2002 in Arctic, Antarctic, and Alpine Research

DOI: 10.2307/1552514

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FACILITATION AND COMPETITION ON GRADIENTS IN ALPINE PLANT 496  
COMMUNITIES

Published: Dec 2001 in Ecology

DOI: 10.1890/0012-9658(2001)082[3295:FACOGI]2.0.CO;2

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Protection against photoinhibition in the alpine plant *Geum montanum* 51

Published: May 1999 in Oecologia

DOI: 10.1007/S004420050771

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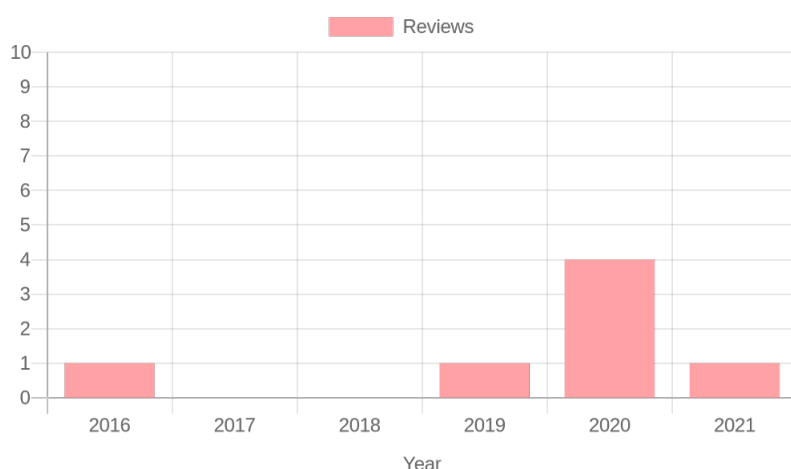
Nerve growth factor-induced accumulation of PC12 cells expressing cyclin D1: 48  
evidence for a G1 phase block

Published: Feb 1996 in Oncogene

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## Verified reviews

### REVIEW SUMMARY



## REVIEWER SUMMARY

For manuscripts reviewed from date range January 1989 - December 2020

(1) Global Ecology and Biogeography	WOS	(1) Diversity and Distributions	WOS
(1) Alpine Botany	WOS	(1) Environmental Research Letters	WOS
(1) Oikos	WOS	(1) Regional Environmental Change	WOS