

Rolf T W Siegwolf

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193
papers

10,157
citations

58
h-index

92
g-index

198
ext. papers

11,588
ext. citations

5.4
avg, IF

6.15
L-index

#	Paper	IF	Citations
193	Climatic Influences on Summer Use of Winter Precipitation by Trees. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
192	Fire as a Major Factor in Dynamics of Tree-Growth and Stable $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ Variations in Larch in the Permafrost Zone. <i>Forests</i> , 2022 , 13, 725	2.8	0
191	Modern aridity in the Altai-Sayan mountain range derived from multiple millennial proxies.. <i>Scientific Reports</i> , 2022 , 12, 7752	4.9	0
190	Nitrogen Isotopes in Tree Rings—Challenges and Prospects. <i>Tree Physiology</i> , 2022 , 361-380		
189	Impact of Increasing CO ₂ , and Air Pollutants (NO _x , SO ₂ , O ₃) on the Stable Isotope Ratios in Tree Rings. <i>Tree Physiology</i> , 2022 , 675-710		
188	Limits and Strengths of Tree-Ring Stable Isotopes. <i>Tree Physiology</i> , 2022 , 399-428		1
187	Probing Tree Physiology Using the Dual-Isotope Approach. <i>Tree Physiology</i> , 2022 , 463-479		0
186	High-frequency stable isotope signals in uneven-aged forests as proxy for physiological responses to climate in Central Europe. <i>Tree Physiology</i> , 2021 , 41, 2046-2062	4.2	4
185	Nitrate and ammonium differ in their impact on $\delta^{15}\text{N}$ of plant metabolites and respired CO from tobacco leaves. <i>Isotopes in Environmental and Health Studies</i> , 2021 , 57, 11-34	1.5	1
184	Effects of soil moisture, needle age and leaf morphology on carbon and oxygen uptake, incorporation and allocation: a dual labeling approach with ^{13}C CO ₂ and H ₂ ¹⁸ O in foliage of a coniferous forest. <i>Tree Physiology</i> , 2021 , 41, 50-62	4.2	1
183	Spring arctic oscillation as a trigger of summer drought in Siberian subarctic over the past 1494 years. <i>Scientific Reports</i> , 2021 , 11, 19010	4.9	5
182	How does varying water supply affect oxygen isotope variations in needles and tree rings of Scots pine?. <i>Tree Physiology</i> , 2020 , 40, 1366-1380	4.2	1
181	Long-term ecological consequences of forest fires in the continuous permafrost zone of Siberia. <i>Environmental Research Letters</i> , 2020 , 15, 034061	6.2	35
180	The O ₂ -signal transfer from water vapour to leaf water and assimilates varies among plant species and growth forms. <i>Plant, Cell and Environment</i> , 2020 , 43, 510-523	8.4	13
179	Plant responses to rising vapor pressure deficit. <i>New Phytologist</i> , 2020 , 226, 1550-1566	9.8	249
178	Impact of Recent Climate Change on Water-Use Efficiency Strategies of <i>Larix sibirica</i> in the Altai-Sayan Mountain Range. <i>Forests</i> , 2020 , 11, 1103	2.8	2
177	Source partitioning of atmospheric methane using stable carbon isotope measurements in the Reuss Valley, Switzerland. <i>Isotopes in Environmental and Health Studies</i> , 2019 , 55, 1-24	1.5	2

176	Seasonal origins of soil water used by trees. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 1199-1210	5.5	89
175	Siberian tree-ring and stable isotope proxies as indicators of temperature and moisture changes after major stratospheric volcanic eruptions. <i>Climate of the Past</i> , 2019 , 15, 685-700	3.9	17
174	Compound-specific carbon isotope patterns in needles of conifer tree species from the Swiss National Park under recent climate change. <i>Plant Physiology and Biochemistry</i> , 2019 , 139, 264-272	5.4	5
173	Tree-ring $\delta^{18}O$ from an Alpine catchment reveals changes in glacier stream water inputs between 1980 and 2010. <i>Arctic, Antarctic, and Alpine Research</i> , 2019 , 51, 250-264	1.8	2
172	Effect of Vapor Pressure Deficit on Gas Exchange in Wild-Type and Abscisic Acid-Insensitive Plants. <i>Plant Physiology</i> , 2019 , 181, 1573-1586	6.6	16
171	The influence of increasing temperature and CO ₂ concentration on recent growth of old-growth larch: contrasting responses at leaf and stem processes derived from tree-ring width and stable isotopes. <i>Tree Physiology</i> , 2018 , 38, 706-720	4.2	6
170	Long-term trends in leaf level gas exchange mirror tree-ring derived intrinsic water-use efficiency of <i>Pinus cembra</i> at treeline during the last century. <i>Agricultural and Forest Meteorology</i> , 2018 , 248, 251-258	5.8	12
169	The effect of O-labelled water vapour on the oxygen isotope ratio of water and assimilates in plants at high humidity. <i>New Phytologist</i> , 2018 , 217, 105-116	9.8	30
168	Surrounding species diversity improves subtropical seedlings' carbon dynamics. <i>Ecology and Evolution</i> , 2018 , 8, 7055-7067	2.8	2
167	Resilient Leaf Physiological Response of European Beech (<i>F. sylvatica</i>) to Summer Drought and Drought Release. <i>Frontiers in Plant Science</i> , 2018 , 9, 187	6.2	37
166	Compound-Specific Carbon Isotopes and Concentrations of Carbohydrates and Organic Acids as Indicators of Tree Decline in Mountain Pine. <i>Forests</i> , 2018 , 9, 363	2.8	7
165	Oxygen isotopes in tree rings are less sensitive to changes in tree size and relative canopy position than carbon isotopes. <i>Plant, Cell and Environment</i> , 2018 , 41, 2899-2914	8.4	23
164	Spatial variation in throughfall, soil, and plant water isotopes in a temperate forest. <i>Ecohydrology</i> , 2018 , 12, e2059	2.5	29
163	Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes – challenges and opportunities from an interdisciplinary perspective. <i>Biogeosciences</i> , 2018 , 15, 6399-6415	4.6	73
162	Inter-laboratory comparison of cryogenic water extraction systems for stable isotope analysis of soil water. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 3619-3637	5.5	61
161	<i>Larix decidua</i> tree-ring cellulose mainly reflects the isotopic signature of winter snow in a high-altitude glacial valley of the European Alps. <i>Science of the Total Environment</i> , 2017 , 579, 230-237	10.2	17
160	Oxygen isotope fractionations across individual leaf carbohydrates in grass and tree species. <i>Plant, Cell and Environment</i> , 2017 , 40, 1658-1670	8.4	30
159	The fate of recently fixed carbon after drought release: towards unravelling C storage regulation in <i>Tilia platyphyllos</i> and <i>Pinus sylvestris</i> . <i>Plant, Cell and Environment</i> , 2017 , 40, 1711-1724	8.4	60

158	Plasticity in gas-exchange physiology of mature Scots pine and European larch drive short- and long-term adjustments to changes in water availability. <i>Plant, Cell and Environment</i> , 2017 , 40, 1972-1983	8.4	9
157	Oxygen isotope analysis of levoglucosan, a tracer of wood burning, in experimental and ambient aerosol samples. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 2101-2108	2.2	4
156	Quantification of dynamic soil-vegetation feedbacks following an isotopically labelled precipitation pulse. <i>Biogeosciences</i> , 2017 , 14, 2293-2306	4.6	11
155	20th-century changes in carbon isotopes and water-use efficiency: tree-ring-based evaluation of the CLM4.5 and LPX-Bern models. <i>Biogeosciences</i> , 2017 , 14, 2641-2673	4.6	73
154	Inferring foliar water uptake using stable isotopes of water. <i>Oecologia</i> , 2017 , 184, 763-766	2.9	32
153	Warm season precipitation signal in δH values of wood lignin methoxyl groups from high elevation larch trees in Switzerland. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 1589-1598	2.2	8
152	The MICE facility - a new tool to study plant-soil C cycling with a holistic approach. <i>Isotopes in Environmental and Health Studies</i> , 2017 , 53, 286-297	1.5	3
151	Long-term effects of drought on tree-ring growth and carbon isotope variability in Scots pine in a dry environment. <i>Tree Physiology</i> , 2017 , 37, 1028-1041	4.2	59
150	Warming Effects on Pinus sylvestris in the Cold-Dry Siberian Forest-Steppe: Positive or Negative Balance of Trade?. <i>Forests</i> , 2017 , 8, 490	2.8	21
149	Environmental drivers of carbon and nitrogen isotopic signatures in peatland vascular plants along an altitude gradient. <i>Oecologia</i> , 2016 , 180, 257-64	2.9	20
148	Recovery of trees from drought depends on belowground sink control. <i>Nature Plants</i> , 2016 , 2, 16111	11.5	96
147	Evidence for direct plant control on rhizosphere priming. <i>Rhizosphere</i> , 2016 , 2, 1-4	3.5	5
146	A dynamic leaf gas-exchange strategy is conserved in woody plants under changing ambient CO ₂ : evidence from carbon isotope discrimination in paleo and CO ₂ enrichment studies. <i>Global Change Biology</i> , 2016 , 22, 889-902	11.4	83
145	The impact of an inverse climate-isotope relationship in soil water on the oxygen-isotope composition of Larix gmelinii in Siberia. <i>New Phytologist</i> , 2016 , 209, 955-64	9.8	42
144	Can tree-ring $\delta^{15}\text{N}$ be used as a proxy for foliar $\delta^{15}\text{N}$ in European beech and Norway spruce?. <i>Trees - Structure and Function</i> , 2016 , 30, 627-638	2.6	13
143	Metabolic Fate of the Carboxyl Groups of Malate and Pyruvate and their Influence on $\delta^{13}\text{C}$ of Leaf-Respired CO ₂ during Light Enhanced Dark Respiration. <i>Frontiers in Plant Science</i> , 2016 , 7, 739	6.2	11
142	Growth and carbon relations of mature Picea abies trees under 5 years of free-air CO ₂ enrichment. <i>Journal of Ecology</i> , 2016 , 104, 1720-1733	6	52
141	Carbon and nitrogen stable isotope signals for an entire alpine flora, based on herbarium samples. <i>Alpine Botany</i> , 2016 , 126, 153-166	2.5	20

140	Impact of interspecific competition and drought on the allocation of new assimilates in trees. <i>Plant Biology</i> , 2016 , 18, 785-96	3.7	43
139	Application of eco-physiological models to the climatic interpretation of $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ measured in Siberian larch tree-rings. <i>Dendrochronologia</i> , 2016 , 39, 51-59	2.8	17
138	A novel methylation derivatization method for (^{18}O) analysis of individual carbohydrates by gas chromatography/pyrolysis-isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 221-9	2.2	8
137	Belowground carbon trade among tall trees in a temperate forest. <i>Science</i> , 2016 , 352, 342-4	33.3	117
136	Contribution of methane to aerosol carbon mass. <i>Atmospheric Environment</i> , 2016 , 141, 41-47	5.3	12
135	Site-specific water-use strategies of mountain pine and larch to cope with recent climate change. <i>Tree Physiology</i> , 2016 , 36, 942-53	4.2	23
134	The response of $\delta^{13}\text{C}$, $\delta^{18}\text{O}$ and cell anatomy of <i>Larix gmelinii</i> tree rings to differing soil active layer depths. <i>Dendrochronologia</i> , 2015 , 34, 51-59	2.8	20
133	Isotope ratio mass spectrometry as a tool for source inference in forensic science: A critical review. <i>Forensic Science International</i> , 2015 , 251, 139-58	2.6	50
132	Growth cessation uncouples isotopic signals in leaves and tree rings of drought-exposed oak trees. <i>Tree Physiology</i> , 2015 , 35, 1095-105	4.2	28
131	Examining the response of needle carbohydrates from Siberian larch trees to climate using compound-specific (^{13}C) and concentration analyses. <i>Plant, Cell and Environment</i> , 2015 , 38, 2340-52	8.4	23
130	The enigma of effective path length for (^{18}O) enrichment in leaf water of conifers. <i>Plant, Cell and Environment</i> , 2015 , 38, 2551-65	8.4	37
129	Comparison of (^{18}O) and (^{13}C) values between tree-ring whole wood and cellulose in five species growing under two different site conditions. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 2233-44	2.2	51
128	Multi-isotope labelling of organic matter by diffusion of H_2^{18}O vapour and C^{13}CO_2 into the leaves and its distribution within the plant. <i>Biogeosciences</i> , 2015 , 12, 1865-1879	4.6	9
127	Species specific and environment induced variation of (^{13}C) and (^{15}N) in alpine plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 423	6.2	24
126	Allocation dynamics of recently fixed carbon in beech saplings in response to increased temperatures and drought. <i>Tree Physiology</i> , 2015 , 35, 585-98	4.2	57
125	Malate as a key carbon source of leaf dark-respired CO_2 across different environmental conditions in potato plants. <i>Journal of Experimental Botany</i> , 2015 , 66, 5769-81	7	27
124	Swiss tree rings reveal warm and wet summers during medieval times. <i>Geophysical Research Letters</i> , 2014 , 41, 1732-1737	4.9	26
123	Long-term C labeling provides evidence for temporal and spatial carbon allocation patterns in mature <i>Picea abies</i> . <i>Oecologia</i> , 2014 , 175, 747-62	2.9	22

122	Drought response of mesophyll conductance in forest understory species—impacts on water-use efficiency and interactions with leaf water movement. <i>Physiologia Plantarum</i> , 2014 , 152, 98-114	4.6	35
121	Soil warming alters microbial substrate use in alpine soils. <i>Global Change Biology</i> , 2014 , 20, 1327-38	11.4	74
120	Carbon isotope discrimination during branch photosynthesis of <i>Fagus sylvatica</i> : a Bayesian modelling approach. <i>Plant, Cell and Environment</i> , 2014 , 37, 1516-35	8.4	10
119	A cluster of stratospheric volcanic eruptions in the AD 530s recorded in Siberian tree rings. <i>Global and Planetary Change</i> , 2014 , 122, 140-150	4.2	14
118	First detection of glacial meltwater signature in tree-ring $\delta^{18}O$: Reconstructing past major glacier runoff events at Lago Verde (Miage Glacier, Italy). <i>Boreas</i> , 2014 , 43, 600-607	2.4	7
117	Increased water-use efficiency does not lead to enhanced tree growth under xeric and mesic conditions. <i>New Phytologist</i> , 2014 , 203, 94-109	9.8	133
116	Douglas-fir seedlings exhibit metabolic responses to increased temperature and atmospheric drought. <i>PLoS ONE</i> , 2014 , 9, e114165	3.7	14
115	Carbon transfer, partitioning and residence time in the plant-soil system: a comparison of two ^{13}C and ^{14}C labelling techniques. <i>Biogeosciences</i> , 2014 , 11, 1637-1648	4.6	30
114	Spatial variability and temporal trends in water-use efficiency of European forests. <i>Global Change Biology</i> , 2014 , 20, 3700-12	11.4	140
113	Carbon isotope discrimination during branch photosynthesis of <i>Fagus sylvatica</i> : field measurements using laser spectrometry. <i>Journal of Experimental Botany</i> , 2014 , 65, 1481-96	7	6
112	Soil $H^{18}O$ labelling reveals the effect of drought on CO_2 fluxes to the atmosphere. <i>Journal of Experimental Botany</i> , 2014 , 65, 5783-93	7	4
111	Seasonal transfer of oxygen isotopes from precipitation and soil to the tree ring: source water versus needle water enrichment. <i>New Phytologist</i> , 2014 , 202, 772-783	9.8	134
110	The mobility of nitrogen across tree-rings of Norway spruce (<i>Picea abies</i> L.) and the effect of extraction method on tree-ring $\delta^{15}N$ and $\delta^{13}C$ values. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1258-64	2.2	11
109	Lack of photosynthetic or stomatal regulation after 9 years of elevated $[CO_2]$ and 4 years of soil warming in two conifer species at the alpine treeline. <i>Plant, Cell and Environment</i> , 2014 , 37, 315-26	8.4	39
108	Increasing relevance of spring temperatures for Norway spruce trees in Davos, Switzerland, after the 1950s. <i>Trees - Structure and Function</i> , 2014 , 28, 183-191	2.6	8
107	$\delta^{15}N$ measurement of organic and inorganic substances by EA-IRMS: a speciation-dependent procedure. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 159-76	4.4	23
106	Fruit production in three masting tree species does not rely on stored carbon reserves. <i>Oecologia</i> , 2013 , 171, 653-62	2.9	79
105	Drought response of five conifer species under contrasting water availability suggests high vulnerability of Norway spruce and European larch. <i>Global Change Biology</i> , 2013 , 19, 3184-99	11.4	204

104	A synthesis of hydrogen isotope variability and its hydrological significance at the Qinghai-Tibetan Plateau. <i>Quaternary International</i> , 2013 , 313-314, 3-16	2	52
103	Central European hardwood trees in a high-CO2 future: synthesis of an 8-year forest canopy CO2 enrichment project. <i>Journal of Ecology</i> , 2013 , 101, 1509-1519	6	113
102	A novel methodological approach for $\delta^{18}\text{O}$ analysis of sugars using gas chromatography-pyrolysis-isotope ratio mass spectrometry. <i>Isotopes in Environmental and Health Studies</i> , 2013 , 49, 492-502	1.5	11
101	Nitrogen partitioning in oak leaves depends on species, provenance, climate conditions and soil type. <i>Plant Biology</i> , 2013 , 15 Suppl 1, 198-209	3.7	24
100	Is the 20th century warming unprecedented in the Siberian north?. <i>Quaternary Science Reviews</i> , 2013 , 73, 93-102	3.9	9
99	Tracing fresh assimilates through <i>Larix decidua</i> exposed to elevated CO ₂ and soil warming at the alpine treeline using compound-specific stable isotope analysis. <i>New Phytologist</i> , 2013 , 197, 838-849	9.8	38
98	Inter- and intra-annual stable carbon and oxygen isotope signals in response to drought in Mediterranean pines. <i>Agricultural and Forest Meteorology</i> , 2013 , 168, 59-68	5.8	107
97	The application of tree-rings and stable isotopes for reconstructions of climate conditions in the Russian Altai. <i>Climatic Change</i> , 2013 , 120, 153-167	4.5	21
96	Responses of belowground carbon allocation dynamics to extended shading in mountain grassland. <i>New Phytologist</i> , 2013 , 198, 116-126	9.8	67
95	A multi-proxy approach for revealing recent climatic changes in the Russian Altai. <i>Climate Dynamics</i> , 2012 , 38, 175-188	4.2	38
94	Climatic isotope signals in tree rings masked by air pollution: A case study conducted along the Mont Blanc Tunnel access road (Western Alps, Italy). <i>Atmospheric Environment</i> , 2012 , 61, 169-179	5.3	24
93	Influence of atmospheric circulation patterns on the oxygen isotope ratio of tree rings in the Alpine region. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		43
92	Progress and challenges in using stable isotopes to trace plant carbon and water relations across scales. <i>Biogeosciences</i> , 2012 , 9, 3083-3111	4.6	110
91	Evaluation of a liquid chromatography method for compound-specific $\delta^{13}\text{C}$ analysis of plant carbohydrates in alkaline media. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2173-85	2.2	34
90	Is the dual-isotope conceptual model fully operational?. <i>Tree Physiology</i> , 2012 , 32, 1179-82	4.2	80
89	Metabolic fluxes, carbon isotope fractionation and respiration—lessons to be learned from plant biochemistry. <i>New Phytologist</i> , 2011 , 191, 10-15	9.8	41
88	Tree-ring growth and stable isotopes (^{13}C and ^{15}N) detect effects of wildfires on tree physiological processes in <i>Pinus sylvestris</i> L.. <i>Trees - Structure and Function</i> , 2011 , 25, 627-636	2.6	41
87	Using eddy covariance and stable isotope mass balance techniques to estimate fog water contributions to a Costa Rican cloud forest during the dry season. <i>Hydrological Processes</i> , 2011 , 25, 429-437	2.3	25

86	The long way down--are carbon and oxygen isotope signals in the tree ring uncoupled from canopy physiological processes?. <i>Tree Physiology</i> , 2011 , 31, 1088-102	4.2	114
85	Fast response of Scots pine to improved water availability reflected in tree-ring width and delta ^{13}C . <i>Plant, Cell and Environment</i> , 2010 , 33, 1351-60	8.4	65
84	Diffusive fractionation complicates isotopic partitioning of autotrophic and heterotrophic sources of soil respiration. <i>Plant, Cell and Environment</i> , 2010 , 33, 1804-19	8.4	58
83	Spatial patterns of climatic changes in the Eurasian north reflected in Siberian larch tree-ring parameters and stable isotopes. <i>Global Change Biology</i> , 2010 , 16, 1003-1018	11.4	52
82	Twentieth century trends in tree ring stable isotopes ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) of <i>Larix sibirica</i> under dry conditions in the forest steppe in Siberia. <i>Journal of Geophysical Research</i> , 2010 , 115,		35
81	Low-frequency noise in $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ tree ring data: A case study of <i>Pinus uncinata</i> in the Spanish Pyrenees. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	83
80	A 350 year drought reconstruction from Alpine tree ring stable isotopes. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	92
79	Sustained enhancement of photosynthesis in mature deciduous forest trees after 8 years of free air CO_2 enrichment. <i>Planta</i> , 2010 , 232, 1115-25	4.7	74
78	Phylogenetically balanced evidence for structural and carbon isotope responses in plants along elevational gradients. <i>Oecologia</i> , 2010 , 162, 853-63	2.9	72
77	Short-term responses of ecosystem carbon fluxes to experimental soil warming at the Swiss alpine treeline. <i>Biogeochemistry</i> , 2010 , 97, 7-19	3.8	93
76	Anthropogenic NO_x emissions alter the intrinsic water-use efficiency (WUEi) for <i>Quercus cerris</i> stands under Mediterranean climate conditions. <i>Environmental Pollution</i> , 2010 , 158, 2841-7	9.3	20
75	An injection method for measuring the carbon isotope content of soil carbon dioxide and soil respiration with a tunable diode laser absorption spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 894-900	2.2	16
74	Determination of primary and secondary sources of organic acids and carbonaceous aerosols using stable carbon isotopes. <i>Atmospheric Environment</i> , 2009 , 43, 431-437	5.3	63
73	Impact of different nitrogen emission sources on tree physiology as assessed by a triple stable isotope approach. <i>Atmospheric Environment</i> , 2009 , 43, 410-418	5.3	39
72	Summer temperature dependency of larch budmoth outbreaks revealed by Alpine tree-ring isotope chronologies. <i>Oecologia</i> , 2009 , 160, 353-65	2.9	48
71	Do centennial tree-ring and stable isotope trends of <i>Larix gmelinii</i> (Rupr.) Rupr. indicate increasing water shortage in the Siberian north?. <i>Oecologia</i> , 2009 , 161, 825-35	2.9	75
70	Temperature versus species-specific influences on the stable oxygen isotope ratio of tree rings. <i>Trees - Structure and Function</i> , 2009 , 23, 801-811	2.6	10
69	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2476-88	2.2	65

68	Study of isotopic variations in black powder: reflections on the use of stable isotopes in forensic science for source inference. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2559-67	2.2	14
67	Does photosynthesis affect grassland soil-respired CO ₂ and its carbon isotope composition on a diurnal timescale?. <i>New Phytologist</i> , 2009 , 182, 451-460	9.8	224
66	Determination of the aerosol yield of isoprene in the presence of an organic seed with carbon isotope analysis. <i>Environmental Science & Technology</i> , 2009 , 43, 6697-702	10.3	26
65	Stable isotope coherence in the earlywood and latewood of tree-line conifers. <i>Chemical Geology</i> , 2009 , 268, 52-57	4.2	42
64	Tree rings indicate different drought resistance of a native (<i>Abies alba</i> Mill.) and a nonnative (<i>Picea abies</i> (L.) Karst.) species co-occurring at a dry site in Southern Italy. <i>Forest Ecology and Management</i> , 2009 , 257, 820-828	3.9	83
63	Effect of water availability on leaf water isotopic enrichment in beech seedlings shows limitations of current fractionation models. <i>Plant, Cell and Environment</i> , 2009 , 32, 1285-96	8.4	43
62	The influence of traffic and wood combustion on the stable isotopic composition of carbon monoxide. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3147-3161	6.8	14
61	Testing a dual isotope model to track carbon and water gas exchanges in a Mediterranean forest. <i>IForest</i> , 2009 , 2, 59-66	1.3	17
60	¹⁵ N immobilization in forest soil: a sterilization experiment coupled with ¹⁵ CPMAS NMR spectroscopy. <i>European Journal of Soil Science</i> , 2008 , 59, 467-475	3.4	27
59	Effects of environmental parameters, leaf physiological properties and leaf water relations on leaf water delta ¹⁸ O enrichment in different Eucalyptus species. <i>Plant, Cell and Environment</i> , 2008 , 31, 738-51	8.4	102
58	Isotopic composition (¹³ C, ¹⁸ O) in wood and cellulose of Siberian larch trees for early Medieval and recent periods. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		48
57	Climatic sensitivity of ¹⁸ O in the wood and cellulose of tree rings: Results from a mixed stand of <i>Acer pseudoplatanus</i> L. and <i>Fagus sylvatica</i> L.. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008 , 261, 193-202	2.9	56
56	An investigation of the common signal in tree ring stable isotope chronologies at temperate sites. <i>Journal of Geophysical Research</i> , 2008 , 113,		74
55	Dynamics of atmospheric nitrogen deposition in a temperate calcareous forest soil. <i>Journal of Environmental Quality</i> , 2008 , 37, 2012-21	3.4	7
54	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO ₂ Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , 2008 , 11, 1338-1351	3.9	102
53	Soil Respiration in European Grasslands in Relation to Climate and Assimilate Supply. <i>Ecosystems</i> , 2008 , 11, 1352-1367	3.9	239
52	Optimization of automated gas sample collection and isotope ratio mass spectrometric analysis of delta(¹³ C) of CO ₂ in air. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3883-92	2.2	24
51	Can we use the CO ₂ concentrations determined by continuous-flow isotope ratio mass spectrometry from small samples for the Keeling plot approach?. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 4029-34	2.2	25

50	Temporal stability of climate-isotope relationships in tree rings of oak and pine (Ticino, Switzerland). <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	53
49	Dynamics of soil organic matter turnover and soil respired CO ₂ in a temperate grassland labelled with ¹³ C. <i>European Journal of Soil Science</i> , 2007 , 58, 1364-1372	3.4	14
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45	Human Impacts on Tree-Ring Growth Reconstructed from Stable Isotopes. <i>Journal of Nano Education (Print)</i> , 2007 , 1, 49-62		6
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43	Using Stable Isotopes as Indicators, Tracers, and Recorders of Ecological Change: Some Context and Background. <i>Journal of Nano Education (Print)</i> , 2007 , 1, 1-18		13
42	Human Impacts on Tree-Ring Growth Reconstructed from Stable Isotopes 2007 , 49-62		8
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37	Seasonal Variations in Soil and Plant Water Status in a <i>Quercus suber</i> L. Stand: Roots as Determinants of Tree Productivity and Survival in the Mediterranean-type Ecosystem. <i>Plant and Soil</i> , 2006 , 283, 119-135	4.2	54
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35	Stable oxygen isotopes (delta ¹⁸ (O)) in <i>Austrocedrus chilensis</i> tree rings reflect climate variability in northwestern Patagonia, Argentina. <i>International Journal of Biometeorology</i> , 2006 , 51, 97-105	3.7	14
34	Immobilization, stabilization and remobilization of nitrogen in forest soils at elevated CO ₂ : a ¹⁵ N and ¹³ C tracer study. <i>Global Change Biology</i> , 2005 , 11, 1816-1827	11.4	34
33	Tissue-specific variation of ¹³ C in mature canopy trees in a temperate forest in central Europe. <i>Basic and Applied Ecology</i> , 2005 , 6, 519-534	3.2	22

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27	Carbon fluxes to the soil in a mature temperate forest assessed by ^{13}C isotope tracing. <i>Oecologia</i> , 2004 , 141, 489-501	2.9	98
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24	Tracing Changes in Ecosystem Function under Elevated Carbon Dioxide Conditions. <i>BioScience</i> , 2003 , 53, 805	5.7	53
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