

# Andreas Richter

## List of Publications by Year in descending order

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Version: 2024-02-01

484  
papers

46,707  
citations

1792

103  
h-index

3312

184  
g-index

622  
all docs

622  
docs citations

622  
times ranked

34125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of emission changes in Southeast Asia on global hydroxyl and methane lifetime. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 588.	0.8	9
2	Decay of similarity across tropical forest communities: integrating spatial distance with soil nutrients. <i>Ecology</i> , 2022, 103, e03599.	1.5	9
3	Lignin Preservation and Microbial Carbohydrate Metabolism in Permafrost Soils. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2022, 127, e2020JG006181.	1.3	5
4	Plant-microbial linkages underpin carbon sequestration in contrasting mountain tundra vegetation types. <i>Soil Biology and Biochemistry</i> , 2022, 165, 108530.	4.2	15
5	Negative priming of soil organic matter following long-term in situ warming of sub-arctic soils. <i>Geoderma</i> , 2022, 410, 115652.	2.3	10
6	Contrasting drivers of belowground nitrogen cycling in a montane grassland exposed to a multifactorial global change experiment with elevated CO <sub>2</sub> , warming, and drought. <i>Global Change Biology</i> , 2022, 28, 2425-2441.	4.2	25
7	Down-regulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming. <i>Science Advances</i> , 2022, 8, eabm3230.	4.7	18
8	Variability of nitrogen oxide emission fluxes and lifetimes estimated from Sentinel-5P TROPOMI observations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2745-2767.	1.9	24
9	Long-term warming reduced microbial biomass but increased recent plant-derived C in microbes of a subarctic grassland. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108590.	4.2	12
10	Growth of soil microbes is not limited by the availability of nitrogen and phosphorus in a Mediterranean oak-savanna. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108680.	4.2	4
11	Stoichiometric regulation of priming effects and soil carbon balance by microbial life strategies. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108669.	4.2	45
12	Lowland plant arrival in alpine ecosystems facilitates a decrease in soil carbon content under experimental climate warming. <i>ELife</i> , 2022, 11, .	2.8	4
13	Ground-based validation of the MetOp-A and MetOp-B GOME-2 OClO measurements. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3439-3463.	1.2	0
14	Nitrogen fixation by diverse diazotrophic communities can support population growth of arboreal ants. <i>BMC Biology</i> , 2022, 20, .	1.7	2
15	Microbiome assembly in thawing permafrost and its feedbacks to climate. <i>Global Change Biology</i> , 2022, 28, 5007-5026.	4.2	34
16	Dissolved organic matter characterization in soils and streams in a small coastal low-Arctic catchment. <i>Biogeosciences</i> , 2022, 19, 3073-3097.	1.3	9
17	Acidobacteria are active and abundant members of diverse atmospheric H <sub>2</sub> -oxidizing communities detected in temperate soils. <i>ISME Journal</i> , 2021, 15, 363-376.	4.4	23
18	Empirical support for the biogeochemical niche hypothesis in forest trees. <i>Nature Ecology and Evolution</i> , 2021, 5, 184-194.	3.4	50

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19	Retrieval and evaluation of tropospheric-aerosol extinction profiles using multi-axis differential optical absorption spectroscopy (MAX-DOAS) measurements over Athens, Greece. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 749-767.	1.2	4
20	Permafrost Causes Unique Fine-Scale Spatial Variability Across Tundra Soils. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006659.	1.9	16
21	Microbial responses to herbivory-induced vegetation changes in a high-Arctic peatland. <i>Polar Biology</i> , 2021, 44, 899-911.	0.5	3
22	The Unusual Stratospheric Arctic Winter 2019/20: Chemical Ozone Loss From Satellite Observations and TOMCAT Chemical Transport Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034386.	1.2	19
23	Warming and elevated CO <sub>2</sub> intensify drought and recovery responses of grassland carbon allocation to soil respiration. <i>Global Change Biology</i> , 2021, 27, 3230-3243.	4.2	33
24	Genomic insights into diverse bacterial taxa that degrade extracellular DNA in marine sediments. <i>Nature Microbiology</i> , 2021, 6, 885-898.	5.9	29
25	Shifts in the Abundances of Saprotrophic and Ectomycorrhizal Fungi With Altered Leaf Litter Inputs. <i>Frontiers in Plant Science</i> , 2021, 12, 682142.	1.7	16
26	Impact of Nutrient Additions on Free-Living Nitrogen Fixation in Litter and Soil of Two French Guianese Lowland Tropical Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006023.	1.3	4
27	Cyanate is a low abundance but actively cycled nitrogen compound in soil. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	11
28	Evaluation of UV-visible MAX-DOAS aerosol profiling products by comparison with ceilometer, sun photometer, and in situ observations in Vienna, Austria. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5299-5318.	1.2	5
29	Estimation of ship emission rates at a major shipping lane by long-path DOAS measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5791-5807.	1.2	9
30	The effect of global change on soil phosphatase activity. <i>Global Change Biology</i> , 2021, 27, 5989-6003.	4.2	59
31	Recently photoassimilated carbon and fungus-delivered nitrogen are spatially correlated in the ectomycorrhizal tissue of <i>Fagus sylvatica</i> . <i>New Phytologist</i> , 2021, 232, 2457-2474.	3.5	19
32	Ecological memory of recurrent drought modifies soil processes via changes in soil microbial community. <i>Nature Communications</i> , 2021, 12, 5308.	5.8	108
33	Responses of grassland soil CO <sub>2</sub> production and fluxes to drought are shifted in a warmer climate under elevated CO <sub>2</sub> . <i>Soil Biology and Biochemistry</i> , 2021, 163, 108436.	4.2	10
34	A critical perspective on interpreting amplicon sequencing data in soil ecological research. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108357.	4.2	36
35	How can fertilization regimes and durations shape earthworm gut microbiota in a long-term field experiment?. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112643.	2.9	9
36	Increased microbial expression of organic nitrogen cycling genes in long-term warmed grassland soils. <i>ISME Communications</i> , 2021, 1, .	1.7	14

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37	Retrieval algorithm for OCIO from TROPOMI (TROPOspheric Monitoring Instrument) by differential optical absorption spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7595-7625.	1.2	2
38	Glyoxal tropospheric column retrievals from TROPOMI – multi-satellite intercomparison and ground-based validation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7775-7807.	1.2	7
39	Regulation of nitrogen fixation from free-living organisms in soil and leaf litter of two tropical forests of the Guiana shield. <i>Plant and Soil</i> , 2020, 450, 93-110.	1.8	23
40	Increased microbial growth, biomass, and turnover drive soil organic carbon accumulation at higher plant diversity. <i>Global Change Biology</i> , 2020, 26, 669-681.	4.2	217
41	Microbial carbon limitation: The need for integrating microorganisms into our understanding of ecosystem carbon cycling. <i>Global Change Biology</i> , 2020, 26, 1953-1961.	4.2	239
42	A systemic overreaction to years versus decades of warming in a subarctic grassland ecosystem. <i>Nature Ecology and Evolution</i> , 2020, 4, 101-108.	3.4	33
43	Microbial growth and carbon use efficiency show seasonal responses in a multifactorial climate change experiment. <i>Communications Biology</i> , 2020, 3, 584.	2.0	30
44	Carbon loss from northern circumpolar permafrost soils amplified by rhizosphere priming. <i>Nature Geoscience</i> , 2020, 13, 560-565.	5.4	72
45	Assessing microbial residues in soil as a potential carbon sink and moderator of carbon use efficiency. <i>Biogeochemistry</i> , 2020, 151, 237-249.	1.7	33
46	Composition and activity of nitrifier communities in soil are unresponsive to elevated temperature and CO <sub>2</sub> , but strongly affected by drought. <i>ISME Journal</i> , 2020, 14, 3038-3053.	4.4	43
47	C:N:P stoichiometry regulates soil organic carbon mineralization and concomitant shifts in microbial community composition in paddy soil. <i>Biology and Fertility of Soils</i> , 2020, 56, 1093-1107.	2.3	112
48	Unexpected long-range transport of glyoxal and formaldehyde observed from the Copernicus Sentinel-5 Precursor satellite during the 2018 Canadian wildfires. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2057-2072.	1.9	47
49	Lability classification of soil organic matter in the northern permafrost region. <i>Biogeosciences</i> , 2020, 17, 361-379.	1.3	23
50	Long-term time series of Arctic tropospheric BrO derived from UV–VIS satellite remote sensing and its relation to first-year sea ice. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11869-11892.	1.9	23
51	Pan-Arctic surface ozone: modelling vs. measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15937-15967.	1.9	14
52	Intercomparison of NO <sub>2</sub> , O <sub>3</sub> , and HCHO slant column measurements by MAX-DOAS and zenith-sky UV–visible spectrometers during CINDI-2. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2169-2208.	1.2	52
53	Spatial distribution of enhanced BrO and its relation to meteorological parameters in Arctic and Antarctic sea ice regions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12285-12312.	1.9	6
54	Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical sponge <i>Lanthella basta</i> . <i>Environmental Microbiology</i> , 2019, 21, 3831-3854.	1.8	50

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55	Life at 0°C: the biology of the alpine snowbed plant <i>Soldanella pusilla</i> . <i>Alpine Botany</i> , 2019, 129, 63-80.	1.1	38
56	Carbon isotopic tracing of sugars throughout whole trees exposed to climate warming. <i>Plant, Cell and Environment</i> , 2019, 42, 3253-3263.	2.8	6
57	Detection of outflow of formaldehyde and glyoxal from the African continent to the Atlantic Ocean with a MAX-DOAS instrument. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10257-10278.	1.9	13
58	Plant roots increase both decomposition and stable organic matter formation in boreal forest soil. <i>Nature Communications</i> , 2019, 10, 3982.	5.8	115
59	Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191300.	1.2	18
60	Towards monitoring localized CO <sub>2</sub> emissions from space: co-located regional CO <sub>2</sub> and NO <sub>2</sub> enhancements observed by the OCO-2 and S5P satellites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9371-9383.	1.9	107
61	Full-azimuthal imaging-DOAS observations of NO <sub>2</sub> and O <sub>4</sub> during CINDI-2. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4171-4190.	1.2	5
62	Rapid Transfer of Plant Photosynthates to Soil Bacteria via Ectomycorrhizal Hyphae and Its Interaction With Nitrogen Availability. <i>Frontiers in Microbiology</i> , 2019, 10, 168.	1.5	106
63	Soil multifunctionality is affected by the soil environment and by microbial community composition and diversity. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107521.	4.2	217
64	Near-surface and path-averaged mixing ratios of NO <sub>2</sub> derived from car DOAS zenith-sky and tower DOAS off-axis measurements in Vienna: a case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5853-5879.	1.9	9
65	Intercomparison of MAX-DOAS vertical profile retrieval algorithms: studies using synthetic data. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2155-2181.	1.2	34
66	Is a scaling factor required to obtain closure between measured and modelled atmospheric O <sub>4</sub> absorptions? An assessment of uncertainties of measurements and radiative transfer simulations for 2 selected days during the MAD-CAT campaign. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2745-2817.	1.2	22
67	First high-resolution BrO column retrievals from TROPOMI. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2913-2932.	1.2	25
68	Concept of small satellite UV/visible imaging spectrometer optimized for tropospheric NO <sub>2</sub> measurements in air quality monitoring. <i>Acta Astronautica</i> , 2019, 160, 421-432.	1.7	2
69	An improved total and tropospheric NO <sub>2</sub> column retrieval for GOME-2. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1029-1057.	1.2	18
70	Microbial carbon and nitrogen cycling responses to drought and temperature in differently managed mountain grasslands. <i>Soil Biology and Biochemistry</i> , 2019, 135, 144-153.	4.2	51
71	Low yield and abiotic origin of N <sub>2</sub> O formed by the complete nitrifier <i>Nitrospira inopinata</i> . <i>Nature Communications</i> , 2019, 10, 1836.	5.8	123
72	Adverse results of the economic crisis: A study on the emergence of enhanced formaldehyde (HCHO) levels seen from satellites over Greek urban sites. <i>Atmospheric Research</i> , 2019, 224, 42-51.	1.8	13

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73	Variation in rhizosphere priming and microbial growth and carbon use efficiency caused by wheat genotypes and temperatures. <i>Soil Biology and Biochemistry</i> , 2019, 134, 54-61.	4.2	20
74	Widespread soil bacterium that oxidizes atmospheric methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8515-8524.	3.3	149
75	Intercomparison of four airborne imaging DOAS systems for tropospheric NO <sub>2</sub> mapping – the AROMAPEX campaign. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 211-236.	1.2	21
76	Coupled carbon and nitrogen losses in response to seven years of chronic warming in subarctic soils. <i>Soil Biology and Biochemistry</i> , 2019, 134, 152-161.	4.2	25
77	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. <i>Frontiers in Plant Science</i> , 2019, 10, 157.	1.7	540
78	Growth explains microbial carbon use efficiency across soils differing in land use and geology. <i>Soil Biology and Biochemistry</i> , 2019, 128, 45-55.	4.2	127
79	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	5.9	103
80	Studies of the horizontal inhomogeneities in NO <sub>2</sub> concentrations above a shipping lane using ground-based multi-axis differential optical absorption spectroscopy (MAX-DOAS) measurements and validation with airborne imaging DOAS measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5959-5977.	1.2	9
81	Global diffuse attenuation derived from vibrational Raman scattering detected in hyperspectral backscattered satellite spectra. <i>Optics Express</i> , 2019, 27, A829.	1.7	5
82	Spatial Variation of Soil CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O Fluxes Across Topographical Positions in Tropical Forests of the Guiana Shield. <i>Ecosystems</i> , 2018, 21, 1445-1458.	1.6	29
83	Geothermally warmed soils reveal persistent increases in the respiratory costs of soil microbes contributing to substantial C losses. <i>Biogeochemistry</i> , 2018, 138, 245-260.	1.7	17
84	Significance of dark CO <sub>2</sub> fixation in arctic soils. <i>Soil Biology and Biochemistry</i> , 2018, 119, 11-21.	4.2	58
85	Regional environmental conditions shape microbial community structure stronger than local forest management intensity. <i>Forest Ecology and Management</i> , 2018, 409, 250-259.	1.4	47
86	XBAER-derived aerosol optical thickness from OLCI/Sentinel-3 observation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2511-2523.	1.9	21
87	Investigating missing sources of glyoxal over China using a regional air quality model (RAMS-CMAQ). <i>Journal of Environmental Sciences</i> , 2018, 71, 108-118.	3.2	9
88	pH-Dependent Bioavailability, Speciation, and Phytotoxicity of Tungsten (W) in Soil Affect Growth and Molybdoenzyme Activity of Nodulated Soybeans. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6146-6156.	4.6	36
89	Soil organic matter quality exerts a stronger control than stoichiometry on microbial substrate use efficiency along a latitudinal transect. <i>Soil Biology and Biochemistry</i> , 2018, 121, 212-220.	4.2	104
90	Application of stable isotope labelling techniques for the detection of active diazotrophs. <i>Environmental Microbiology</i> , 2018, 20, 44-61.	1.8	44

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91	Full <sup>15</sup> N tracer accounting to revisit major assumptions of <sup>15</sup> N isotope pool dilution approaches for gross nitrogen mineralization. <i>Soil Biology and Biochemistry</i> , 2018, 117, 16-26.	4.2	35
92	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. <i>Soil Biology and Biochemistry</i> , 2018, 116, 311-322.	4.2	59
93	Improving algorithms and uncertainty estimates for satellite NO <sub>2</sub> retrievals: results from the quality assurance for the essential climate variables (QA4ECV) project. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6651-6678.	1.2	187
94	Aerosol profiling during the large scale field campaign CINDI-2. <i>EPJ Web of Conferences</i> , 2018, 176, 10005.	0.1	0
95	BOREAS – a new MAX-DOAS profile retrieval algorithm for aerosols and trace gases. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6833-6859.	1.2	27
96	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. <i>Tree Physiology</i> , 2018, 38, 1764-1778.	1.4	171
97	GOME-2A retrievals of tropospheric NO <sub>2</sub> in different spectral ranges – influence of penetration depth. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2769-2795.	1.2	5
98	Algorithm theoretical baseline for formaldehyde retrievals from S5P TROPOMI and from the QA4ECV project. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2395-2426.	1.2	127
99	Improved slant column density retrieval of nitrogen dioxide and formaldehyde for OMI and GOME-2A from QA4ECV: intercomparison, uncertainty characterisation, and trends. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4033-4058.	1.2	74
100	The importance of surface reflectance anisotropy for cloud and NO <sub>2</sub> retrievals from GOME-2 and OMI. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4509-4529.	1.2	25
101	Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. <i>Nature Climate Change</i> , 2018, 8, 885-889.	8.1	230
102	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , 2018, 2, 1588-1596.	3.4	100
103	Resistance of soil protein depolymerization rates to eight years of elevated CO <sub>2</sub> , warming, and summer drought in a temperate heathland. <i>Biogeochemistry</i> , 2018, 140, 255-267.	1.7	13
104	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , 2018, 24, 3401-3415.	4.2	107
105	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. <i>Soil Biology and Biochemistry</i> , 2018, 122, 141-149.	4.2	62
106	Amino acid production exceeds plant nitrogen demand in Siberian tundra. <i>Environmental Research Letters</i> , 2018, 13, 034002.	2.2	49
107	Vertical Profiles of Tropospheric Ozone From MAX-DOAS Measurements During the CINDI-2 Campaign: Part 1 – Development of a New Retrieval Algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,637.	1.2	18
108	Standards VDI 4211 and VDI 4212 on passive FTIR and DOAS remote sensing techniques. , 2018, , .		1

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109	Rhizospheric microbial community of <i>Caesalpinia spinosa</i> (Mol.) Kuntze in conserved and deforested zones of the Atiquipa fog forest in Peru. <i>Applied Soil Ecology</i> , 2017, 114, 132-141.	2.1	10
110	Global patterns of phosphatase activity in natural soils. <i>Scientific Reports</i> , 2017, 7, 1337.	1.6	296
111	Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events. <i>Science Advances</i> , 2017, 3, e1602781.	4.7	143
112	Optimal metabolic regulation along resource stoichiometry gradients. <i>Ecology Letters</i> , 2017, 20, 1182-1191.	3.0	118
113	Microbial utilization of mineral-associated nitrogen in soils. <i>Soil Biology and Biochemistry</i> , 2017, 104, 185-196.	4.2	30
114	Monitoring shipping emissions in the German Bight using MAX-DOAS measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10997-11023.	1.9	31
115	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3083-3095.	1.9	38
116	Space-based observation of volcanic iodine monoxide. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4857-4870.	1.9	21
117	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 955-978.	1.2	20
118	High-resolution airborne imaging DOAS measurements of NO <sub>2</sub> and HCHO above Bucharest during AROMAT. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1831-1857.	1.2	20
119	Structural uncertainty in air mass factor calculation for NO <sub>2</sub> and HCHO satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 759-782.	1.2	133
120	MAX-DOAS measurements of HONO slant column densities during the MAD-CAT campaign: inter-comparison, sensitivity studies on spectral analysis settings, and error budget. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3719-3742.	1.2	31
121	Post photosynthetic carbon partitioning to sugar alcohols and consequences for plant growth. <i>Phytochemistry</i> , 2017, 144, 243-252.	1.4	33
122	C-IFS-CB05-BASCOE: stratospheric chemistry in the Integrated Forecasting System of ECMWF. <i>Geoscientific Model Development</i> , 2016, 9, 3071-3091.	1.3	24
123	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. <i>Frontiers in Microbiology</i> , 2016, 7, 214.	1.5	479
124	Exploring the metabolic potential of microbial communities in ultra-low-sulfate, reducing springs at The Cedars, CA, USA: Experimental evidence of microbial methanogenesis and heterotrophic acetogenesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1203-1220.	1.3	35
125	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , 2016, 6, 25607.	1.6	87
126	A case study of a transported bromine explosion event in the Canadian high arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 457-477.	1.2	38



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127	Soil microbial carbon use efficiency and biomass turnover in a long-term fertilization experiment in a temperate grassland. <i>Soil Biology and Biochemistry</i> , 2016, 97, 168-175.	4.2	205
128	Carbon Isotope Composition of Carbohydrates and Polyols in Leaf and Phloem Sap of <i>Phaseolus vulgaris</i> L. Influences Predictions of Plant Water Use Efficiency. <i>Plant and Cell Physiology</i> , 2016, 57, 1756-1766.	1.5	14
129	Slant column MAX-DOAS measurements of nitrogen dioxide, formaldehyde, glyoxal and oxygen dimer in the urban environment of Athens. <i>Atmospheric Environment</i> , 2016, 135, 118-131.	1.9	32
130	Stress-induced changes in carbon allocation among metabolite pools influence isotope-based predictions of water use efficiency in <i>Phaseolus vulgaris</i> . <i>Functional Plant Biology</i> , 2016, 43, 1149.	1.1	7
131	Anthropogenic sulphur dioxide load over China as observed from different satellite sensors. <i>Atmospheric Environment</i> , 2016, 145, 45-59.	1.9	33
132	Controls on the storage of organic carbon in permafrost soil in northern Siberia. <i>European Journal of Soil Science</i> , 2016, 67, 478-491.	1.8	24
133	Estimates of free-tropospheric NO <sub>2</sub> and HCHO mixing ratios derived from high-altitude mountain MAX-DOAS observations at midlatitudes and in the tropics. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2803-2817.	1.9	21
134	Impacts of the 2014–2015 Holuhraun eruption on the UK atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11415-11431.	1.9	16
135	An exemplary case of a bromine explosion event linked to cyclone development in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1773-1788.	1.9	29
136	Drought history affects grassland plant and microbial carbon turnover during and after a subsequent drought event. <i>Journal of Ecology</i> , 2016, 104, 1453-1465.	1.9	94
137	Microbial carbon use efficiency and biomass turnover times depending on soil depth – Implications for carbon cycling. <i>Soil Biology and Biochemistry</i> , 2016, 96, 74-81.	4.2	289
138	Microbial nitrogen dynamics in organic and mineral soil horizons along a latitudinal transect in western Siberia. <i>Global Biogeochemical Cycles</i> , 2015, 29, 567-582.	1.9	108
139	Summer drought alters carbon allocation to roots and root respiration in mountain grassland. <i>New Phytologist</i> , 2015, 205, 1117-1127.	3.5	199
140	A pan-Arctic synthesis of CH <sub>4</sub> and CO <sub>2</sub> production from anoxic soil incubations. <i>Global Change Biology</i> , 2015, 21, 2787-2803.	4.2	138
141	Data assimilation of satellite-retrieved ozone, carbon monoxide and nitrogen dioxide with ECMWF's Composition-IFS. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5275-5303.	1.9	109
142	Evaluation of the MACC operational forecast system – potential and challenges of global near-real-time modelling with respect to reactive gases in the troposphere. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 14005-14030.	1.9	21
143	Monitoring compliance with sulfur content regulations of shipping fuel by in situ measurements of ship emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10087-10092.	1.9	59
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