

# Andreas Richter

## 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.

490  
papers

35,051  
citations

93  
h-index

166  
g-index

622  
ext. papers

41,557  
ext. citations

6.5  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
490	Plant-microbial linkages underpin carbon sequestration in contrasting mountain tundra vegetation types. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 165, 108530	7.5	0
489	Negative priming of soil organic matter following long-term in situ warming of sub-arctic soils. <i>Geoderma</i> , <b>2022</b> , 410, 115652	6.7	1
488	Down-regulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming.. <i>Science Advances</i> , <b>2022</b> , 8, eabm3230	14.3	0
487	Variability of nitrogen oxide emission fluxes and lifetimes estimated from Sentinel-5P TROPOMI observations. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 2745-2767	6.8	1
486	Long-term warming reduced microbial biomass but increased recent plant-derived C in microbes of a subarctic grassland. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 167, 108590	7.5	1
485	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> , <b>2022</b> , 108680	7.5	0
484	Stoichiometric regulation of priming effects and soil carbon balance by microbial life strategies. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 169, 108669	7.5	0
483	Retrieval algorithm for OCLO from TROPOMI (TROPOspheric Monitoring Instrument) by differential optical absorption spectroscopy. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 7595-7625	4	1
482	Decay of similarity across tropical forest communities: integrating spatial distance with soil nutrients. <i>Ecology</i> , <b>2021</b> , e03599	4.6	1
481	Permafrost Causes Unique Fine-Scale Spatial Variability Across Tundra Soils. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006659	5.9	7
480	Microbial responses to herbivory-induced vegetation changes in a high-Arctic peatland. <i>Polar Biology</i> , <b>2021</b> , 44, 899-911	2	1
479	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> , <b>2021</b> , 126, e2020JD034386	4.4	9
478	Warming and elevated CO intensify drought and recovery responses of grassland carbon allocation to soil respiration. <i>Global Change Biology</i> , <b>2021</b> , 27, 3230-3243	11.4	5
477	Genomic insights into diverse bacterial taxa that degrade extracellular DNA in marine sediments. <i>Nature Microbiology</i> , <b>2021</b> , 6, 885-898	26.6	1
476	Shifts in the Abundances of Saprotrophic and Ectomycorrhizal Fungi With Altered Leaf Litter Inputs. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 682142	6.2	3
475	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> , <b>2021</b> , 126, e2020JG006023	3.7	2
474	Acidobacteria are active and abundant members of diverse atmospheric H-oxidizing communities detected in temperate soils. <i>ISME Journal</i> , <b>2021</b> , 15, 363-376	11.9	9

473	Empirical support for the biogeochemical niche hypothesis in forest trees. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 184-194	12.3	14
472	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> , <b>2021</b> , 14, 749-767	4	2
471	Cyanate is a low abundance but actively cycled nitrogen compound in soil. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	2
470	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> , <b>2021</b> , 14, 5299-5318	4	0
469	Estimation of ship emission rates at a major shipping lane by long-path DOAS measurements. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 5791-5807	4	1
468	The effect of global change on soil phosphatase activity. <i>Global Change Biology</i> , <b>2021</b> , 27, 5989-6003	11.4	8
467	Recently photoassimilated carbon and fungus-delivered nitrogen are spatially correlated in the ectomycorrhizal tissue of <i>Fagus sylvatica</i> . <i>New Phytologist</i> , <b>2021</b> , 232, 2457-2474	9.8	2
466	Ecological memory of recurrent drought modifies soil processes via changes in soil microbial community. <i>Nature Communications</i> , <b>2021</b> , 12, 5308	17.4	14
465	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> , <b>2021</b> , 108436	7.5	0
464	A critical perspective on interpreting amplicon sequencing data in soil ecological research. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108357	7.5	10
463	How can fertilization regimes and durations shape earthworm gut microbiota in a long-term field experiment?. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 224, 112643	7	1
462	Glyoxal tropospheric column retrievals from TROPOMI – multi-satellite intercomparison and ground-based validation. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 7775-7807	4	2
461	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> , <b>2020</b> , 56, 1093-1107	6.1	53
460	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> , <b>2020</b> , 20, 2057-2072	6.8	20
459	Lability classification of soil organic matter in the northern permafrost region. <i>Biogeosciences</i> , <b>2020</b> , 17, 361-379	4.6	15
458	Spatial distribution of enhanced BrO and its relation to meteorological parameters in Arctic and Antarctic sea ice regions. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12285-12312	6.8	2
457	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> , <b>2020</b> , 20, 11869-11892	6.8	7
456	Pan-Arctic surface ozone: modelling vs. measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 15937-15967	6.8	7

455	Intercomparison of NO <sub>2</sub> , O <sub>4</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> , <b>2020</b> , 13, 2169-2208	4	30
454	A systemic overreaction to years versus decades of warming in a subarctic grassland ecosystem. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 101-108	12.3	20
453	Microbial growth and carbon use efficiency show seasonal responses in a multifactorial climate change experiment. <i>Communications Biology</i> , <b>2020</b> , 3, 584	6.7	7
452	Carbon loss from northern circumpolar permafrost soils amplified by rhizosphere priming. <i>Nature Geoscience</i> , <b>2020</b> , 13, 560-565	18.3	35
451	Assessing microbial residues in soil as a potential carbon sink and moderator of carbon use efficiency. <i>Biogeochemistry</i> , <b>2020</b> , 151, 237-249	3.8	13
450	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> , <b>2020</b> , 14, 3038-3053	11.9	14
449	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> , <b>2020</b> , 450, 93-110	4.2	10
448	Increased microbial growth, biomass, and turnover drive soil organic carbon accumulation at higher plant diversity. <i>Global Change Biology</i> , <b>2020</b> , 26, 669-681	11.4	81
447	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> , <b>2019</b> , 19, 10257-10278	6.8	9
446	Plant roots increase both decomposition and stable organic matter formation in boreal forest soil. <i>Nature Communications</i> , <b>2019</b> , 10, 3982	17.4	49
445	Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191300	4.4	11
444	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> , <b>2019</b> , 19, 9371-9383	6.8	59
443	Full-azimuthal imaging-DOAS observations of NO <sub>2</sub> and O <sub>4</sub> during CINDI-2. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4171-4190	4	5
442	Rapid Transfer of Plant Photosynthates to Soil Bacteria via Ectomycorrhizal Hyphae and Its Interaction With Nitrogen Availability. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 168	5.7	46
441	Soil multifunctionality is affected by the soil environment and by microbial community composition and diversity. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 136, 107521	7.5	72
440	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> , <b>2019</b> , 19, 5853-5879	6.8	7
439	Intercomparison of MAX-DOAS vertical profile retrieval algorithms: studies using synthetic data. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2155-2181	4	21
438	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> , <b>2019</b> , 12, 2715-2817	4	16

437	First high-resolution BrO column retrievals from TROPOMI. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2913-2932	4	11
436	Concept of small satellite UV/visible imaging spectrometer optimized for tropospheric NO <sub>2</sub> measurements in air quality monitoring. <i>Acta Astronautica</i> , <b>2019</b> , 160, 421-432	2.9	1
435	An improved total and tropospheric NO <sub>2</sub> column retrieval for GOME-2. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 1029-1057	4	9
434	Microbial carbon and nitrogen cycling responses to drought and temperature in differently managed mountain grasslands. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 144-153	7.5	26
433	Low yield and abiotic origin of NO formed by the complete nitrifier <i>Nitrospira inopinata</i> . <i>Nature Communications</i> , <b>2019</b> , 10, 1836	17.4	62
432	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> , <b>2019</b> , 224, 42-51	5.4	9
431	Variation in rhizosphere priming and microbial growth and carbon use efficiency caused by wheat genotypes and temperatures. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 54-61	7.5	13
430	Widespread soil bacterium that oxidizes atmospheric methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 8515-8524	11.5	75
429	Intercomparison of four airborne imaging DOAS systems for tropospheric NO <sub>2</sub> mapping in the AROMAPEX campaign. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 211-236	4	11
428	Coupled carbon and nitrogen losses in response to seven years of chronic warming in subarctic soils. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 152-161	7.5	13
427	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 157	6.2	253
426	Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical sponge <i>Ianthella basta</i> . <i>Environmental Microbiology</i> , <b>2019</b> , 21, 3831-3854	5.2	23
425	Life at 0 °C: the biology of the alpine snowbed plant <i>Soldanella pusilla</i> . <i>Alpine Botany</i> , <b>2019</b> , 129, 63-80	2.5	24
424	Carbon isotopic tracing of sugars throughout whole-trees exposed to climate warming. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 3253-3263	8.4	3
423	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> , <b>2019</b> , 12, 5959-5977	4	3
422	Global diffuse attenuation derived from vibrational Raman scattering detected in hyperspectral backscattered satellite spectra. <i>Optics Express</i> , <b>2019</b> , 27, A829-A855	3.3	4
421	Microbial carbon limitation: The need for integrating microorganisms into our understanding of ecosystem carbon cycling. <i>Global Change Biology</i> , <b>2019</b> , 26, 1953	11.4	74
420	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 <b>2019</b> ,		1

419	Growth explains microbial carbon use efficiency across soils differing in land use and geology. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 128, 45-55	7.5	61
418	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , <b>2019</b> , 4, 234-243	26.6	55
417	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> , <b>2018</b> , 21, 1445-1458	3.9	20
416	Geothermally warmed soils reveal persistent increases in the respiratory costs of soil microbes contributing to substantial C losses. <i>Biogeochemistry</i> , <b>2018</b> , 138, 245-260	3.8	6
415	Significance of dark CO <sub>2</sub> fixation in arctic soils. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 119, 11-21	7.5	40
414	Regional environmental conditions shape microbial community structure stronger than local forest management intensity. <i>Forest Ecology and Management</i> , <b>2018</b> , 409, 250-259	3.9	28
413	XBAER-derived aerosol optical thickness from OLCI/Sentinel-3 observation. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2511-2523	6.8	14
412	Investigating missing sources of glyoxal over China using a regional air quality model (RAMS-CMAQ). <i>Journal of Environmental Sciences</i> , <b>2018</b> , 71, 108-118	6.4	7
411	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> , <b>2018</b> , 52, 6146-6156	10.3	18
410	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> , <b>2018</b> , 121, 212-220	7.5	49
409	Application of stable-isotope labelling techniques for the detection of active diazotrophs. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 44-61	5.2	26
408	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> , <b>2018</b> , 123, 10,637	4.4	8
407	Full N tracer accounting to revisit major assumptions of N isotope pool dilution approaches for gross nitrogen mineralization. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 117, 16-26	7.5	20
406	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 311-322	7.5	41
405	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> , <b>2018</b> , 11, 6651-6678	4	115
404	Aerosol profiling during the large scale field campaign CINDI-2. <i>EPJ Web of Conferences</i> , <b>2018</b> , 176, 10005.3		
403	BOREAS: A new MAX-DOAS profile retrieval algorithm for aerosols and trace gases. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 6833-6859	4	19
402	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. <i>Tree Physiology</i> , <b>2018</b> , 38, 1764-1778	4.2	82

401	GOME-2A retrievals of tropospheric NO <sub>2</sub> in different spectral ranges □ influence of penetration depth. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2769-2795	4	4
400	Algorithm theoretical baseline for formaldehyde retrievals from S5P TROPOMI and from the QA4ECV project. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2395-2426	4	73
399	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> , <b>2018</b> , 11, 4033-4058	4	51
398	The importance of surface reflectance anisotropy for cloud and NO <sub>2</sub> retrievals from GOME-2 and OMI. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 4509-4529	4	17
397	Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. <i>Nature Climate Change</i> , <b>2018</b> , 8, 885-889	21.4	110
396	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1588-1596	12.3	49
395	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> , <b>2018</b> , 140, 255-267	3.8	7
394	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , <b>2018</b> , 24, 3401-3415	11.4	66
393	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 122, 141-149	7.5	30
392	Amino acid production exceeds plant nitrogen demand in Siberian tundra. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 034002	6.2	39
391	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> , <b>2017</b> , 114, 132-141	5	8
390	Global patterns of phosphatase activity in natural soils. <i>Scientific Reports</i> , <b>2017</b> , 7, 1337	4.9	179
389	Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events. <i>Science Advances</i> , <b>2017</b> , 3, e1602781	14.3	70
388	NO <sub>x</sub> pollution over India observed from space □the impact of rapid economic growth, and a recent decline <b>2017</b> ,		17
387	Post photosynthetic carbon partitioning to sugar alcohols and consequences for plant growth. <i>Phytochemistry</i> , <b>2017</b> , 144, 243-252	4	23
386	Optimal metabolic regulation along resource stoichiometry gradients. <i>Ecology Letters</i> , <b>2017</b> , 20, 1182-1191		71
385	Microbial utilization of mineral-associated nitrogen in soils. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 104, 185-196		21
384	Monitoring shipping emissions in the German Bight using MAX-DOAS measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 10997-11023	6.8	18

383	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3083-3095	6.8	28
382	Space-based observation of volcanic iodine monoxide. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 4857-4870	6.8	13
381	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 955-978	4	17
380	High-resolution airborne imaging DOAS measurements of NO <sub>2</sub> above Bucharest during AROMAT. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1831-1857	4	16
379	Structural uncertainty in air mass factor calculation for NO <sub>2</sub> and HCHO satellite retrievals. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 759-782	4	91
378	XBAER derived aerosol optical thickness from OLCI/Sentinel-3 observation <b>2017</b> ,		1
377	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> , <b>2017</b> , 10, 3719-3742	4	25
376	Anthropogenic sulphur dioxide load over China as observed from different satellite sensors. <i>Atmospheric Environment</i> , <b>2016</b> , 145, 45-59	5.3	27
375	Controls on the storage of organic carbon in permafrost soil in northern Siberia. <i>European Journal of Soil Science</i> , <b>2016</b> , 67, 478-491	3.4	19
374	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> , <b>2016</b> , 16, 2803-2817	6.8	16
373	Impacts of the 2014-2015 Holuhraun eruption on the UK atmosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11415-11431	6.8	12
372	An exemplary case of a bromine explosion event linked to cyclone development in the Arctic. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1773-1788	6.8	19
371	Drought history affects grassland plant and microbial carbon turnover during and after a subsequent drought event. <i>Journal of Ecology</i> , <b>2016</b> , 104, 1453-1465	6	60
370	Microbial carbon use efficiency and biomass turnover times depending on soil depth – Implications for carbon cycling. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 96, 74-81	7.5	173
369	Geothermal ecosystems as natural climate change experiments: The ForHot research site in Iceland as a case study. <i>Icelandic Agricultural Sciences</i> , <b>2016</b> , 29, 53-71		26
368	C-IFS-CB05-BASCOE: stratospheric chemistry in the Integrated Forecasting System of ECMWF. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3071-3091	6.3	15
367	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 214	5.7	321
366	Exploring the metabolic potential of microbial communities in ultra-basic, reducing springs at The Cedars, CA, USA: Experimental evidence of microbial methanogenesis and heterotrophic acetogenesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 1203-1220	3.7	18



365	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , <b>2016</b> , 6, 25607	4.9	64
364	A case study of a transported bromine explosion event in the Canadian high arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 457-477	4.4	26
363	Soil microbial carbon use efficiency and biomass turnover in a long-term fertilization experiment in a temperate grassland. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 97, 168-175	7.5	117
362	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> , <b>2016</b> , 57, 1756-1768	4.9	11
361	Slant column MAX-DOAS measurements of nitrogen dioxide, formaldehyde, glyoxal and oxygen dimer in the urban environment of Athens. <i>Atmospheric Environment</i> , <b>2016</b> , 135, 118-131	5.3	28
360	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> , <b>2016</b> , 43, 1149-1158	2.7	6
359	Ship-based MAX-DOAS measurements of tropospheric NO <sub>2</sub> and SO <sub>2</sub> in the South China and Sulu Sea. <i>Atmospheric Environment</i> , <b>2015</b> , 102, 331-343	5.3	25
358	The application of ecological stoichiometry to plant-microbial-soil organic matter transformations. <i>Ecological Monographs</i> , <b>2015</b> , 85, 133-155	9	431
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16	Monitoring compliance with sulphur content regulations of shipping fuel by in-situ measurements of ship emissions		2
15	An exemplary case of a bromine explosion event linked to cyclone development in the Arctic		3
14	High-resolution airborne imaging DOAS-measurements of NO <sub>2</sub> above Bucharest during AROMAT		2
13	Improving algorithms and uncertainty estimates for satellite NO <sub>2</sub> retrievals: Results from the Quality Assurance for Essential Climate Variables (QA4ECV) project		2
12	The importance of surface reflectance anisotropy for cloud and NO <sub>2</sub> retrievals from GOME-2 and OMI		2
11	Studies of the horizontal inhomogeneities in NO <sub>2</sub> concentrations above a shipping lane using ground-based MAX-DOAS and airborne imaging DOAS measurements		2
10	Intercomparison of MAX-DOAS Vertical Profile Retrieval Algorithms: Studies using Synthetic Data		4
9	Intercomparison of NO <sub>2</sub> , O <sub>4</sub> , O <sub>3</sub> and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-Visible spectrometers during the CINDI-2 campaign		5
8	A wide field-of-view imaging DOAS instrument for continuous trace gas mapping from aircraft		5
7	An improved glyoxal retrieval from OMI measurements		3
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