Thomas Rckmann

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281 papers

8,629 citations

49 h-index 80 g-index

387 ext. papers

9,877 ext. citations

7.1 avg, IF

6.18 L-index

#	Paper	IF	Citations
281	Methane emissions from terrestrial plants under aerobic conditions. <i>Nature</i> , 2006 , 439, 187-91	50.4	690
280	Eemian interglacial reconstructed from a Greenland folded ice core. <i>Nature</i> , 2013 , 493, 489-94	50.4	474
279	Methane Feedbacks to the Global Climate System in a Warmer World. <i>Reviews of Geophysics</i> , 2018 , 56, 207-250	23.1	200
278	Iron-mediated anaerobic oxidation of methane in brackish coastal sediments. <i>Environmental Science & Environmental Science & Environmental Science</i>	10.3	181
277	Triple oxygen isotope analysis of nitrate using the denitrifier method and thermal decomposition of N2O. <i>Analytical Chemistry</i> , 2007 , 79, 599-607	7.8	174
276	Dynamic processes governing lower-tropospheric HDO/H2O ratios as observed from space and ground. <i>Science</i> , 2009 , 325, 1374-7	33.3	166
275	Isotope effects in the chemistry of atmospheric trace compounds. <i>Chemical Reviews</i> , 2003 , 103, 5125-6	268.1	162
274	Methoxyl groups of plant pectin as a precursor of atmospheric methane: evidence from deuterium labelling studies. <i>New Phytologist</i> , 2008 , 178, 808-814	9.8	135
273	Effect of UV radiation and temperature on the emission of methane from plant biomass and structural components. <i>Biogeosciences</i> , 2008 , 5, 937-947	4.6	124
272	Mass-independent oxygen isotope fractionation in atmospheric CO as a result of the reaction CO + OH. <i>Science</i> , 1998 , 281, 544-6	33.3	116
271	New insight into the atmospheric chloromethane budget gained using stable carbon isotope ratios. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2403-2411	6.8	108
270	Oxygen isotope composition of stratospheric carbon dioxide. <i>Geophysical Research Letters</i> , 2002 , 29, 23-1	4.9	102
269	The overwhelming role of soils in the global atmospheric hydrogen cycle. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1611-1625	6.8	98
268	Reduced biomass burning emissions reconcile conflicting estimates of the post-2006 atmospheric methane budget. <i>Nature Communications</i> , 2017 , 8, 2227	17.4	97
267	Natural and anthropogenic variations in methane sources during the past two millennia. <i>Nature</i> , 2012 , 490, 85-8	50.4	96
266	Micro- and Nanoplastics in Alpine Snow: A New Method for Chemical Identification and (Semi)Quantification in the Nanogram Range. <i>Environmental Science & Environmental Scienc</i>	2339	92
265	Atmospheric constraints on global emissions of methane from plants. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	88

264	Mass spectrometry of the intramolecular nitrogen isotope distribution of environmental nitrous oxide using fragment-ion analysis. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 2028-33	2.2	86	
263	A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3991-4012	6.8	84	
262	Source contributions to PM2.5 and PM10 at an urban background and a street location. <i>Atmospheric Environment</i> , 2013 , 71, 26-35	5.3	84	
261	Interpreting methane variations in the past two decades using measurements of CH₄ mixing ratio and isotopic composition. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9141-9153	6.8	83	
260	Methane formation in aerobic environments. Environmental Chemistry, 2009, 6, 459	3.2	83	
259	The isotopic fingerprint of the pre-industrial and the anthropogenic N₂O source. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 315-323	6.8	80	
258	Aerosol analysis using a Thermal-Desorption Proton-Transfer-Reaction Mass Spectrometer (TD-PTR-MS): a new approach to study processing of organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2257-2267	6.8	77	
257	Four-dimensional variational data assimilation for inverse modeling of atmospheric methane emissions: Analysis of SCIAMACHY observations. <i>Journal of Geophysical Research</i> , 2008 , 113,		75	
256	Analysis of the chemical composition of organic aerosol at the Mt. Sonnblick observatory using a novel high mass resolution thermal-desorption proton-transfer-reaction mass-spectrometer (hr-TD-PTR-MS). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10111-10128	6.8	71	
255	Isotope analysis based source identification for atmospheric CH4 and CO sampled across Russia using the Trans-Siberian railroad. <i>Journal of Geophysical Research</i> , 1998 , 103, 8227-8235		71	
254	Gas chromatography/isotope-ratio mass spectrometry method for high-precision position-dependent 15N and 18O measurements of atmospheric nitrous oxide. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1897-908	2.2	70	
253	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9233-9268	6.8	69	
252	HESS Opinions "A perspective on isotope versus non-isotope approaches to determine the contribution of transpiration to total evaporation". <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 2815-2827	5.5	68	
251	Complete and accurate mass spectrometric isotope analysis of tropospheric nitrous oxide. <i>Journal of Geophysical Research</i> , 2003 , 108,		67	
250	Iron oxide reduction in methane-rich deep Baltic Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 207, 256-276	5.5	63	
249	Newly detected ozone-depleting substances in the atmosphere. <i>Nature Geoscience</i> , 2014 , 7, 266-269	18.3	61	
248	Modelling the budget of middle atmospheric water vapour isotopes. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2073-2090	6.8	61	
247	Ultraviolet-radiation-induced methane emissions from meteorites and the Martian atmosphere. <i>Nature</i> , 2012 , 486, 93-6	50.4	57	

246	Comparison of an isotopic atmospheric general circulation model with new quasi-global satellite measurements of water vapor isotopologues. <i>Journal of Geophysical Research</i> , 2011 , 116,		57	
245	Isotopic enrichment of nitrous oxide (15N14NO, 14N15NO, 14N14N18O) in the stratosphere and in the laboratory. <i>Journal of Geophysical Research</i> , 2001 , 106, 10403-10410		56	
244	The stable isotope signature of methane emitted from plant material under UV irradiation. <i>Atmospheric Environment</i> , 2009 , 43, 5637-5646	5.3	55	
243	The origin of the anomalous or hass-independent bxygen isotope fractionation in tropospheric N2O. <i>Geophysical Research Letters</i> , 2001 , 28, 503-506	4.9	55	
242	Quantification of the SF6 lifetime based on mesospheric loss measured in the stratospheric polar vortex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4626-4638	4.4	54	
241	Comparison of CH4 inversions based on 15 months of GOSAT and SCIAMACHY observations. Journal of Geophysical Research D: Atmospheres, 2013 , 118, 11,807-11,823	4.4	54	
240	Eddy covariance methane measurements at a Ponderosa pine plantation in California. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8365-8375	6.8	54	
239	Probing stratospheric transport and chemistry with new balloon and aircraft observations of the meridional and vertical N₂O isotope distribution. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3535-3556	6.8	54	
238	HDO measurements with MIPAS. Atmospheric Chemistry and Physics, 2007, 7, 2601-2615	6.8	52	
237	Continuous-flow isotope ratio mass spectrometry method for carbon and hydrogen isotope measurements on atmospheric methane. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1707-1721	4	51	
236	An introduction to the SCOUT-AMMA stratospheric aircraft, balloons and sondes campaign in West Africa, August 2006: rationale and roadmap. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2237-2256	6.8	51	
235	Heavy hydrogen in the stratosphere. Atmospheric Chemistry and Physics, 2003, 3, 2015-2023	6.8	51	
234	In situ observations of the isotopic composition of methane at the Cabauw tall tower site. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10469-10487	6.8	49	
233	Vehicle emissions of greenhouse gases and related tracers from a tunnel study: CO: CO ₂ , N ₂ 0: CO ₂ , CH ₄ : CO ₂ 2:	6.8	49	
232	Anaerobic oxidation of methane alters sediment records of sulfur, iron and phosphorus in the Black Sea. <i>Biogeosciences</i> , 2016 , 13, 5333-5355	4.6	49	
231	Accelerating growth of HFC-227ea (1,1,1,2,3,3,3-heptafluoropropane) in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5903-5910	6.8	47	
230	Optimizing global CO emission estimates using a four-dimensional variational data assimilation system and surface network observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4705-4723	6.8	46	
229	Methane airborne measurements and comparison to global models during BARCA. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		45	

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228	the southern hemispheric troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 25477-25485		45	
227	Tropical dehydration processes constrained by the seasonality of stratospheric deuterated water. <i>Nature Geoscience</i> , 2010 , 3, 262-266	18.3	44	
226	Stratospheric ozone isotope fractionations derived from collected samples. <i>Journal of Geophysical Research</i> , 2007 , 112,		44	
225	Using ¹⁴C, ¹³C, ¹⁸O and ¹⁷O isotopic variations to provide insights into the high northern latitude surface CO inventory. <i>Atmospheric Chemistry and Physics</i> , 2002 , 2, 147-159	6.8	44	
224	Wavelength dependence of isotope fractionation in N₂O photolysis. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 303-313	6.8	43	
223	Intramolecular 15N and 18O fractionation in the reaction of N2O with O(1D) and its implications for the stratospheric N2O isotope signature. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 16-1		43	
222	Continuous-flow isotope analysis of the deuterium/hydrogen ratio in atmospheric hydrogen. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 299-306	2.2	42	
221	Measurement of the isotopic fractionation of 15N14N16O, 14N15N16O and 14N14N18O in the UV photolysis of nitrous oxide. <i>Geophysical Research Letters</i> , 2000 , 27, 1399-1402	4.9	42	
220	Trace Gas Measurements Between Moscow and Vladivostok Using the Trans-Siberian Railroad. Journal of Atmospheric Chemistry, 1998 , 29, 179-194	3.2	41	
219	Rapid Sediment Accumulation Results in High Methane Effluxes from Coastal Sediments. <i>PLoS ONE</i> , 2016 , 11, e0161609	3.7	41	
218	Observation-based assessment of stratospheric fractional release, lifetimes, and ozone depletion potentials of ten important source gases. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2779-2791	6.8	39	
217	High-precision determination of the changing isotopic composition of atmospheric N2O from 1990 to 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		39	
216	Constraints on N₂O budget changes since pre-industrial time from new firn air and ice core isotope measurements. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 493-503	6.8	39	
215	Contribution of mass-dependent fractionation to the oxygen isotope anomaly of atmospheric nitrous oxide. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		39	
214	Review of progress in isotope studies of atmospheric carbon monoxide. <i>Chemosphere</i> , 1999 , 1, 33-52		38	
213	Long-term tropospheric trend of octafluorocyclobutane (c-C₄F₈ or PFC-318). <i>Atmospheric Chemistry and</i> <i>Physics</i> , 2012 , 12, 261-269	6.8	37	
212	Atmospheric CH4 along the Trans-Siberian railroad (TROICA) and river Ob: Source identification using stable isotope analysis. <i>Atmospheric Environment</i> , 2006 , 40, 5617-5628	5.3	37	
211	Soil carbon content and relative abundance of high affinity H2-oxidizing bacteria predict atmospheric H2 soil uptake activity better than soil microbial community composition. <i>Soil Biology and Biochemistry</i> , 2015 , 85, 1-9	7.5	36	

210	The isotopic composition of methane in the stratosphere: high-altitude balloon sample measurements. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13287-13304	6.8	36
209	Early anthropogenic CH4 emissions and the variation of CH4 and 13CH4 over the last millennium. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	36
208	What can ¹⁴CO measurements tell us about OH?. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5033-5044	6.8	36
207	Methane emissions from floodplains in the Amazon Basin: challenges in developing a process-based model for global applications. <i>Biogeosciences</i> , 2014 , 11, 1519-1558	4.6	35
206	Comparing optimized CO emission estimates using MOPITT or NOAA surface network observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		35
205	Simultaneous stable isotope analysis of methane and nitrous oxide on ice core samples. Atmospheric Measurement Techniques, 2011 , 4, 2607-2618	4	35
204	Relative tropospheric photolysis rates of HCHO and HCDO measured at the European Photoreactor Facility. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9034-46	2.8	35
203	High-precision isotope measurements of H ₂ ¹⁶ O, H ₂ ¹⁷ O, H ₂ ¹⁸ O, and the □	6.8	35
202	A rapid method for the preparation of O2 from CO2 for mass spectrometric measurement of 17O/16O ratios 1998 , 12, 479-483		34
201	Real-time analysis of <i></i>¹³C- and <i></i>D-CH₄ in ambient air with laser spectroscopy: method development and first intercomparison results. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 263-280	4	34
200	Enhanced methane emissions from tropical wetlands during the 2011 La Ni . Scientific Reports, 2017 , 7, 45759	4.9	33
199	Evaluating the performance of commonly used gas analysers for methane eddy covariance flux measurements: the InGOS inter-comparison field experiment. <i>Biogeosciences</i> , 2014 , 11, 3163-3186	4.6	33
198	Russian doll type cryogenic traps: improved design and isotope separation effects. <i>Analytical Chemistry</i> , 1996 , 68, 3050-3	7.8	33
197	The origin of methane in the East Siberian Arctic Shelf unraveled with triple isotope analysis. <i>Biogeosciences</i> , 2017 , 14, 2283-2292	4.6	32
196	Ultra-violet absorption cross sections of isotopically substituted nitrous oxide species: ¹⁴ N ¹⁴ NO, ¹⁵ N ¹⁴ NO,	6.8	32
195	¹⁴ N ¹⁵ NO and Methane_flux,Vertical®gradient and mixing ratio measurements in a tropical forest. Atmospheric 04, Chemistry and Physics, 2011, 11, 7943-7953	6.8	30
194	Effect of UV radiation and temperature on the emission of methane from plant biomass and structural components		30
193	Sources and formation mechanisms of carbonaceous aerosol at a regional background site in the Netherlands: insights from a year-long radiocarbon study. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3233-3251	6.8	27

192	Methyl chloride and C2II5 hydrocarbon emissions from dry leaf litter and their dependence on temperature. <i>Atmospheric Environment</i> , 2011 , 45, 3112-3119	5.3	27	
191	Ozonolysis of nonmethane hydrocarbons as a source of the observed mass independent oxygen isotope enrichment in tropospheric CO. <i>Journal of Geophysical Research</i> , 1998 , 103, 1463-1470		27	
190	The contribution of fossil sources to the organic aerosol in the Netherlands. <i>Atmospheric Environment</i> , 2013 , 74, 169-176	5.3	26	
189	A consistent molecular hydrogen isotope chemistry scheme based on an independent bond approximation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8503-8529	6.8	26	
188	Hydrogen isotope fractionation in the photolysis of formaldehyde. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1353-1366	6.8	26	
187	Mass spectrometric method for the absolute calibration of the intramolecular nitrogen isotope distribution in nitrous oxide. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 256-69	4.4	26	
186	Reconstruction of Northern Hemisphere 1950\(\mathbb{\textit{0}}\)010 atmospheric non-methane hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1463-1483	6.8	25	
185	Estimation of aerosol water and chemical composition from AERONET SunEky radiometer measurements at Cabauw, the Netherlands. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5969-5987	6.8	25	
184	Interannual variability of carbon monoxide emission estimates over South America from 2006 to 2010. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		25	
183	Distributions, long term trends and emissions of four perfluorocarbons in remote parts of the atmosphere and firn air. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4081-4090	6.8	25	
182	Stable isotopic compositions of carbon monoxide from biomass burning experiments. <i>Atmospheric Environment</i> , 1999 , 33, 4357-4362	5.3	25	
181	On the interference of Kr during carbon isotope analysis of methane using continuous-flow combustion to be ratio mass spectrometry. Atmospheric Measurement Techniques, 2013, 6, 1425-1445	4	24	
180	The impact of anthropogenic chlorine emissions, stratospheric ozone change and chemical feedbacks on stratospheric water. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 693-699	6.8	24	
179	CO2+O(1 D) isotopic exchange: Laboratory and modeling studies. <i>Journal of Geophysical Research</i> , 2000 , 105, 15213-15229		24	
178	Interlaboratory comparison of <i></i>¹³C and <i></sub>D measurements of atmospheric CH₄ for combined use of data sets from different laboratories. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1207-1231	4	24	
177	Sensitivity of PARASOL multi-angle photopolarimetric aerosol retrievals to cloud contamination. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1287-1301	4	23	
176	Inverse modeling of GOSAT-retrieved ratios of total column CH₄ and CO₂ for 2009 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5043-5062	6.8	23	
175	Methyl chloride emissions from halophyte leaf litter: dependence on temperature and chloride content. <i>Chemosphere</i> , 2012 , 87, 483-9	8.4	23	

174	Emissions of H2 and CO from leaf litter of Sequoiadendron giganteum, and their dependence on UV radiation and temperature. <i>Atmospheric Environment</i> , 2011 , 45, 7520-7524	5.3	23
173	Molecular hydrogen (H₂) emissions and their isotopic signatures (H/D) from a motor vehicle: implications on atmospheric H₂. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5707-5718	6.8	23
172	Temperature dependence of isotope fractionation in N2O photolysis. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4420-4430	3.6	23
171	Measurements of stable carbon and oxygen isotopic compositions of CO in automobile exhausts and ambient air from semi-urban Mainz, Germany <i>Geochemical Journal</i> , 1999 , 33, 73-77	0.9	23
170	East Siberian Arctic inland waters emit mostly contemporary carbon. <i>Nature Communications</i> , 2020 , 11, 1627	17.4	22
169	Global modelling of H₂ mixing ratios and isotopic compositions with the TM5 model. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7001-7026	6.8	22
168	Comparison of HDO measurements from Envisat/MIPAS with observations by Odin/SMR and SCISAT/ACE-FTS. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1855-1874	4	22
167	Correction of mass spectrometric isotope ratio measurements for isobaric isotopologues of O2, CO, CO2, N2O and SO2. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3997-4008	2.2	22
166	Influence of flooding on delta15N, delta18O, 1delta15N and 2delta15N signatures of N2O released from estuarine soilsa laboratory experiment using tidal flooding chambers. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1561-8	2.2	22
165	Absolute measurement of the abundance of atmospheric carbon monoxide. <i>Journal of Geophysical Research</i> , 2001 , 106, 10003-10010		22
164	Statistical clumped isotope signatures. Scientific Reports, 2016, 6, 31947	4.9	22
163	Investigations of the photochemical isotope equilibrium between O₂, CO₂ and O₃. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 495-509	6.8	21
162	Development and evaluation of a suite of isotope reference gases for methane in air. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3717-3737	4	20
161	Characteristics, sources and evolution of fine aerosol (PM 1) at urban, coastal and forest background sites in Lithuania. <i>Atmospheric Environment</i> , 2017 , 148, 62-76	5.3	19
160	Studying the spatial variability of methane flux with five eddy covariance towers of varying height. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 456-472	5.8	19
159	Evaluation of a two-step thermal method for separating organic and elemental carbon for radiocarbon analysis. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 1943-1955	4	19
158	Fractional release factors of long-lived halogenated organic compounds in the tropical stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1093-1103	6.8	19
157	Short-term variations in the 13C/12C ratio of CO as a measure of Cl activation during tropospheric ozone depletion events in the Arctic. <i>Journal of Geophysical Research</i> , 1999 , 104, 1691-1697		19

156	Impact of a future H 2 transportation on atmospheric pollution in Europe. <i>Atmospheric Environment</i> , 2015 , 113, 208-222	5.3	18
155	Can the carbon isotopic composition of methane be reconstructed from multi-site firn air measurements?. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6993-7005	6.8	18
154	Reassessing the variability in atmospheric H2 using the two-way nested TM5 model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3764-3780	4.4	18
153	Absence of isotope exchange in the reaction of N2O + O(1D) and the global 17O budget of nitrous oxide. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	18
152	Determination of the triple oxygen and carbon isotopic composition of CO from atomic ion fragments formed in the ion source of the 253 Ultra high-resolution isotope ratio mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 1363-1380	2.2	17
151	Temporal and spatial variability of the stable isotopic composition of atmospheric molecular hydrogen: observations at six EUROHYDROS stations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 698	5 ⁶ 6999	9 ¹⁷
150	Isotopic composition of H2 from wood burning: Dependency on combustion efficiency, moisture content, and \mathbf{D} of local precipitation. <i>Journal of Geophysical Research</i> , 2010 , 115,		17
149	Observed and modeled seasonal variation of 13C, 18O, and 14C of atmospheric CO at Happo, a remote site in Japan, and a comparison with other records. <i>Journal of Geophysical Research</i> , 2000 , 105, 8891-8900		17
148	Offline thermal-desorption proton-transfer-reaction mass spectrometry to study composition of organic aerosol. <i>Journal of Aerosol Science</i> , 2015 , 79, 1-14	4.3	16
147	Sources and atmospheric processing of size segregated aerosol particles revealed by stable carbon isotope ratios and chemical speciation. <i>Environmental Pollution</i> , 2018 , 240, 286-296	9.3	16
146	Analysis of global methane changes after the 1991 Pinatubo volcanic eruption. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2267-2281	6.8	16
145	Characterization of pollution events observed at Schauinsland, Germany, using CO and its stable isotopes. <i>Atmospheric Environment</i> , 2002 , 36, 2831-2840	5.3	16
144	Detailed analysis of the isotopic composition of CO and characterization of the air masses arriving at Mount Sonnblick (Austrian Alps). <i>Journal of Geophysical Research</i> , 2001 , 106, 3179-3193		16
143	Water drives the deuterium content of the methane emitted from plants. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 3865-3873	5.5	15
142	Isotope effect in the formation of H₂ from H₂CO studied at the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5343-5357	6.8	15
141	What caused the extreme CO concentrations during the 2017 high-pollution episode in India?. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3433-3445	6.8	14
140	Continued increase of CFC-113a (CCl₃CF₃) mixing ratios in the global atmosphere: emissions, occurrence and potential sources. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4737-4751	6.8	14
139	Evaluation of stratospheric age of air from CF ₄ , C ₂ F ₆ , C ₃ F ₈ , CHF ₃ , HFC-125,	6.8	14

lifetimes, fractional release factors and ozone depletion potentials. *Atmospheric Chemistry and Physics*, **2018**, 18, 3369-3385

138	Global 3-D Simulations of the Triple Oxygen Isotope Signature D in Atmospheric CO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8808-8836	4.4	14	
137	Characterisation of the semi-volatile component of Dissolved Organic Matter by Thermal Desorption - Proton Transfer Reaction - Mass Spectrometry. <i>Scientific Reports</i> , 2017 , 7, 15936	4.9	14	
136	The effect of stratospheric sulfur from Mount Pinatubo on tropospheric oxidizing capacity and methane. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1202-1220	4.4	14	
135	An automated GC-C-GC-IRMS setup to measure palaeoatmospheric ¹³ C-CH ₄ , ¹⁵ N-N ₂ O and	4	14	
134	H₂ vertical profiles in the continental boundary layer: measurements at the Cabauw tall tower in The Netherlands. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6425-6443	6.8	14	
133	Methodological aspects of atmospheric 14CO measurements with AMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 172, 530-536	1.2	14	
132	The error in conventionally reported 13C/12C ratios of atmospheric CO due to the presence of mass independent oxygen isotope enrichment. <i>Geophysical Research Letters</i> , 1998 , 25, 3163-3166	4.9	14	
131	Estimating CH₄, CO₂ and CO emissions from coal mining and industrial activities in the Upper Silesian Coal Basin using an aircraft-based mass balance approach. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12675-12695	6.8	14	
130	Multiangle photopolarimetric aerosol retrievals in the vicinity of clouds: Synthetic study based on a large eddy simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,914-12,935	4.4	13	
129	Iconic CO2 time series at risk. <i>Science</i> , 2012 , 337, 1038-40	33.3	13	
128	A thermal desorption system for measuring 1/3C ratios on organic aerosol. <i>Journal of Aerosol Science</i> , 2013 , 66, 72-82	4.3	13	
127	Methane, Plants and Climate Change. Scientific American, 2007, 296, 52-57	0.5	13	
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