

Thomas Rckmann

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.

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	Street-level methane emissions of Bucharest, Romania and the dominance of urban wastewater.. <i>Atmospheric Environment: X</i> , 2022 , 13, 100153	2.8	1
280	Stable isotopic signatures of methane from waste sources through atmospheric measurements. <i>Atmospheric Environment</i> , 2022 , 276, 119021	5.3	0
279	Temperature dependence of isotopic fractionation in the CO - O isotope exchange reaction.. <i>Rapid Communications in Mass Spectrometry</i> , 2022 , e9301	2.2	
278	Presence of nanoplastics in rural and remote surface waters. <i>Environmental Research Letters</i> , 2022 , 17, 054036	6.2	3
277	Carbon Emissions From the Edge of the Greenland Ice Sheet Reveal Subglacial Processes of Methane and Carbon Dioxide Turnover. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126,	3.7	1
276	Stratospheric carbon isotope fractionation and tropospheric histories of CFC-11, CFC-12, and CFC-113 isotopologues. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6857-6873	6.8	
275	Isotopic signatures of major methane sources in the coal seam gas fields and adjacent agricultural districts, Queensland, Australia. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10527-10555	6.8	6
274	Carbon and Hydrogen Isotope Signatures of Dissolved Methane in the Scheldt Estuary. <i>Estuaries and Coasts</i> , 2021 , 44, 137-146	2.8	2
273	Aircraft-Based Observations of Ozone-Depleting Substances in the Upper Troposphere and Lower Stratosphere in and Above the Asian Summer Monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033137	4.4	8
272	Leaf scale quantification of the effect of photosynthetic gas exchange on $\delta^{13}\text{C}$ CO. <i>Scientific Reports</i> , 2021 , 11, 14023	4.9	
271	Methane (CH_4) sources in Krakow, Poland: insights from isotope analysis. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13167-13185	6.8	6
270	Nanoplastics transport to the remote, high-altitude Alps. <i>Environmental Pollution</i> , 2021 , 288, 117697	9.3	10
269	A reassessment of the discrepancies in the annual variation of $\delta^{13}\text{C}$ - $\delta^{18}\text{O}$ in the tropical lower stratosphere between the MIPAS and ACE-FTS satellite data sets. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 287-308	4	1
268	Micro- and Nanoplastics in Alpine Snow: A New Method for Chemical Identification and (Semi)Quantification in the Nanogram Range. <i>Environmental Science & Technology</i> , 2020 , 54, 2353-2359	10.3	92
267	East Siberian Arctic inland waters emit mostly contemporary carbon. <i>Nature Communications</i> , 2020 , 11, 1627	17.4	22
266	Methane emissions from the Munich Oktoberfest. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3683-3696	6.8	10
265	Estimating CH_4 , CO_2 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

264	Wildfire smoke in the lower stratosphere identified by in situ CO observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13985-14003	6.8	5
263	Methane mapping, emission quantification, and attribution in two European cities: Utrecht (NL) and Hamburg (DE). <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14717-14740	6.8	12
262	Investigating stratospheric changes between 2009 and 2018 with halogenated trace gas data from aircraft, AirCores, and a global model focusing on CFC-11. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9771-9782	6.8	7
261	Leaf-scale quantification of the effect of photosynthetic gas exchange on $\delta^{17}\text{O}$ of atmospheric CO_2 . <i>Biogeosciences</i> , 2020 , 17, 3903-3922	4.6	2
260	CloudRoots: integration of advanced instrumental techniques and process modelling of sub-hourly and sub-kilometre land-atmosphere interactions. <i>Biogeosciences</i> , 2020 , 17, 4375-4404	4.6	5
259	Characterisation of methane sources in Lutjewad, The Netherlands, using quasi-continuous isotopic composition measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2020 , 72, 1-20	3.3	8
258	Influence of Atmospheric Transport on Estimates of Variability in the Global Methane Burden. <i>Geophysical Research Letters</i> , 2019 , 46, 2302-2311	4.9	10
257	Sub-diurnal variability of the carbon dioxide and water vapor isotopologues at the field observational scale. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 114-135	5.8	7
256	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
255	Measurement of O_2 and O_3 in atmospheric O_2 using the 253 Ultra mass spectrometer and applications to stratospheric and tropospheric air samples. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 981-994	2.2	8
254	Brief communication: Analysis of organic matter in surface snow by PTR-MS – Implications for dry deposition dynamics in the Alps. <i>Cryosphere</i> , 2019 , 13, 297-307	5.5	8
253	Compound-Specific Radiocarbon Analysis of Atmospheric Methane: A New Preconcentration and Purification Setup. <i>Radiocarbon</i> , 2019 , 61, 1461-1476	4.6	7
252	Global 3-D Simulations of the Triple Oxygen Isotope Signature δ in Atmospheric CO_2 . <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8808-8836	4.4	14
251	Determination of the triple oxygen and carbon isotopic composition of CO_2 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
250	Produção e Fluxo de Metano na Floresta Nacional do Tapajó. <i>Revista Brasileira De Meteorologia</i> , 2019 , 34, 585-596	0.4	
249	Explicit aerosol-cloud interactions in the Dutch Atmospheric Large-Eddy Simulation model DALES4.1-M7. <i>Geoscientific Model Development</i> , 2019 , 12, 5177-5196	6.3	3
248	H clumped isotope measurements at natural isotopic abundances. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 239-251	2.2	10
247	Continued increase of CFC-113a ($\text{C}_2\text{F}_5\text{CF}_3$) mixing ratios in the global atmosphere: emissions, occurrence and potential sources. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4737-4751	6.8	14

246	Methane Feedbacks to the Global Climate System in a Warmer World. <i>Reviews of Geophysics</i> , 2018 , 56, 207-250	23.1	200
245	The isotopic composition of CO in vehicle exhaust. <i>Atmospheric Environment</i> , 2018 , 177, 132-142	5.3	8
244	Evaluation of stratospheric age of air from CF ₄ , C ₂ F ₆ , C ₃ F ₈ , CHF ₃ , HFC-125, HFC-227ea and SF ₆ ; implications for the calculations of halocarbon	6.8	14
243	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
242	The impact of precipitation evaporation on the atmospheric aerosol distribution in EC-Earth v3.2.0. <i>Geoscientific Model Development</i> , 2018 , 11, 1443-1465	6.3	9
241	What caused the extreme CO concentrations during the 2017 high pollution episode in India? 2018 ,		1
240	Changes in the Isotopic Signature of Atmospheric Nitrous Oxide and Its Global Average Source During the Last Three Millennia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,757	4.4	9
239	Interlaboratory comparison of $\delta^{13}\text{C}$ and $\delta^2\text{D}$ measurements of atmospheric CH ₄ for combined use of data sets from different laboratories. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1207-1231	4	24
238	Iron oxide reduction in methane-rich deep Baltic Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 207, 256-276	5.5	63
237	Enhanced methane emissions from tropical wetlands during the 2011 La Niña. <i>Scientific Reports</i> , 2017 , 7, 45759	4.9	33
236	Quantification of the SF ₆ 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
235	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
234	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
233	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
232	Reduced biomass burning emissions reconcile conflicting estimates of the post-2006 atmospheric methane budget. <i>Nature Communications</i> , 2017 , 8, 2227	17.4	97
231	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
230	Chemical and isotopic composition of secondary organic aerosol generated by α -pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6373-6391	6.8	10
229	Quantification of CO emissions from the city of Madrid using MOPITT satellite retrievals and WRF simulations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14675-14694	6.8	11

228	Constraining N ₂ O emissions since 1940 using firn air isotope measurements in both hemispheres. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4539-4564	6.8	6
227	Retrievals of heavy ozone with MIPAS. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 6069-6079	4	4
226	Can we explain the observed methane variability after the Mount Pinatubo eruption?. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 195-214	6.8	11
225	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
224	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
223	Chemical characterization of organic particulate matter from on-road traffic in Sã Paulo, Brazil. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14397-14408	6.8	11
222	Inverse modeling of GOSAT-retrieved ratios of total column CH ₄ and CO ₂ for 2009 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5043-5062	6.8	23
221	Influence of 3D effects on 1D aerosol retrievals in synthetic, partially clouded scenes. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 170, 54-68	2.1	11
220	Rapid Sediment Accumulation Results in High Methane Effluxes from Coastal Sediments. <i>PLoS ONE</i> , 2016 , 11, e0161609	3.7	41
219	Stratospheric Air Sub-sampler (SAS) and its application to analysis of ¹⁷ O(CO ₂) from small air samples collected with an AirCore. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5607-5620	4	10
218	In-situ observations of the isotopic composition of methane at the Cabauw tall tower site 2016 ,		2
217	Real-time analysis of ¹³ C- and ¹³ C-D-CH ₄ in ambient air with laser spectroscopy: method development and first intercomparison results. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 263-280	4	34
216	Isotopic evidence for biogenic molecular hydrogen production in the Atlantic Ocean. <i>Biogeosciences</i> , 2016 , 13, 323-340	4.6	7
215	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
214	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
213	Chemical and isotopic composition of secondary organic aerosol generated by ¹³ C-pinene ozonolysis 2016 ,		2
212	Statistical clumped isotope signatures. <i>Scientific Reports</i> , 2016 , 6, 31947	4.9	22
211	Observations of molecular hydrogen mixing ratio and stable isotopic composition at the Cabauw tall tower in the Netherlands. <i>Atmospheric Environment</i> , 2016 , 147, 98-108	5.3	2

210	Impact of a future H ₂ transportation on atmospheric pollution in Europe. <i>Atmospheric Environment</i> , 2015 , 113, 208-222	5.3	18
209	Sensitivity of PARASOL multi-angle photopolarimetric aerosol retrievals to cloud contamination. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1287-1301	4	23
208	Global-scale remote sensing of water isotopologues in the troposphere: representation of first-order isotope effects. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 999-1019	4	10
207	Continuous-flow IRMS technique for determining the $\delta^{17}\text{O}$ excess of CO_2 using complete oxygen isotope exchange with cerium oxide. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 811-822	4	5
206	Soil carbon content and relative abundance of high affinity H ₂ -oxidizing bacteria predict atmospheric H ₂ soil uptake activity better than soil microbial community composition. <i>Soil Biology and Biochemistry</i> , 2015 , 85, 1-9	7.5	36
205	Iron-mediated anaerobic oxidation of methane in brackish coastal sediments. <i>Environmental Science & Technology</i> , 2015 , 49, 277-83	10.3	181
204	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
203	Experimental study on isotope fractionation effects in visible photolysis of O ₃ and in the O + O ₃ odd oxygen sink reaction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 4398-4416	4.4	7
202	Carbon isotope ratios suggest no additional methane from boreal wetlands during the rapid Greenland Interstadial 21.2. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1962-1976	5.9	9
201	Wavelength-dependent isotope fractionation in visible light O ₃ photolysis and atmospheric implications. <i>Geophysical Research Letters</i> , 2015 , 42, 8711-8718	4.9	6
200	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
199	Atmospheric processes governing the changes in water isotopologues during ENSO events from model and satellite measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6712-6729	4.4	11
198	Chlorine isotope composition in chlorofluorocarbons CFC-11, CFC-12 and CFC-113 in firn, stratospheric and tropospheric air. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6867-6877	6.8	5
197	On the use of satellite-derived CH_4 : CO_2 columns in a joint inversion of CH_4 and CO_2 fluxes. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8615-8629	6.8	10
196	Isotopic signatures of production and uptake of H ₂ by soil. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13003-13021	6.8	9
195	An analytical system for stable isotope analysis on carbon monoxide using continuous-flow isotope-ratio mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5315-5324	4	6
194	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
193	An analytical system for studying the stable isotopes of carbon monoxide using continuous flow-isotope ratio mass spectrometry (CF-IRMS) 2015 ,		2

192	Newly detected ozone-depleting substances in the atmosphere. <i>Nature Geoscience</i> , 2014 , 7, 266-269	18.3	61
191	Reconstruction of Northern Hemisphere 1950-2010 atmospheric non-methane hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1463-1483	6.8	25
190	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
189	Estimation of aerosol water and chemical composition from AERONET Sun-sky radiometer measurements at Cabauw, the Netherlands. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5969-5987	6.8	25
188	Vehicle emissions of greenhouse gases and related tracers from a tunnel study: CO : CO ₂ , N ₂ O : CO ₂ , CH ₄ : CO ₂ , O ₃ : CO ₂ , and the stable isotopes ¹³ C and ¹⁸ O. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2105-2123	6.8	49
187	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
186	Atmospheric Abundances, Trends and Emissions of CFC-216ba, CFC-216ca and HCFC-225ca. <i>Atmosphere</i> , 2014 , 5, 420-434	2.7	8
185	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
184	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
183	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
182	Global scale remote sensing of water isotopologues in the troposphere: representation of first-order isotope effects 2014 ,		2
181	The contribution of fossil sources to the organic aerosol in the Netherlands. <i>Atmospheric Environment</i> , 2013 , 74, 169-176	5.3	26
180	Eemian interglacial reconstructed from a Greenland folded ice core. <i>Nature</i> , 2013 , 493, 489-94	50.4	474
179	On the interference of Kr during carbon isotope analysis of methane using continuous-flow combustion isotope ratio mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1425-1445	4	24
178	Source contributions to PM _{2.5} and PM ₁₀ at an urban background and a street location. <i>Atmospheric Environment</i> , 2013 , 71, 26-35	5.3	84
177	A thermal desorption system for measuring ¹³ C ratios on organic aerosol. <i>Journal of Aerosol Science</i> , 2013 , 66, 72-82	4.3	13
176	On the interference of ⁸⁶ Kr ₂ during carbon isotope analysis of atmospheric methane using continuous flow combustion isotope ratio mass spectrometry 2013 ,		2
175	Emission ratio and isotopic signatures of molecular hydrogen emissions from tropical biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9401-9413	6.8	4

174	Analysis of global methane changes after the 1991 Pinatubo volcanic eruption. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2267-2281	6.8	16
173	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
172	Extreme $\delta^{13}\text{C}$ depletion of CCl_2F_2 in firn air samples from NEEM, Greenland. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 599-609	6.8	8
171	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
170	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
169	Reassessing the variability in atmospheric H_2 using the two-way nested TM5 model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3764-3780	4.4	18
168	Comparison of CH_4 inversions based on 15 months of GOSAT and SCIAMACHY observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,807-11,823	4.4	54
167	An automated GC-C-GC-IRMS setup to measure palaeoatmospheric $\delta^{13}\text{C}$ - CH_4 , $\delta^{15}\text{N}$ - N_2 and $\delta^{18}\text{O}$ - O_2 in one ice core sample. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11,823-11,833	4	14
166	High-resolution measurements of atmospheric molecular hydrogen and its isotopic composition at the West African coast of Mauritania. <i>Biogeosciences</i> , 2013 , 10, 3391-3403	4.6	3
165	Iconic CO_2 time series at risk. <i>Science</i> , 2012 , 337, 1038-40	33.3	13
164	Natural and anthropogenic variations in methane sources during the past two millennia. <i>Nature</i> , 2012 , 490, 85-8	50.4	96
163	Ultraviolet-radiation-induced methane emissions from meteorites and the Martian atmosphere. <i>Nature</i> , 2012 , 486, 93-6	50.4	57
162	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
161	Methane airborne measurements and comparison to global models during BARCA. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		45
160	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
159	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
158	The stable isotopic signature of biologically produced molecular hydrogen (H_2). <i>Biogeosciences</i> , 2012 , 9, 4115-4123	4.6	12
157	Methyl chloride emissions from halophyte leaf litter: dependence on temperature and chloride content. <i>Chemosphere</i> , 2012 , 87, 483-9	8.4	23

156	Long-term tropospheric trend of octafluorocyclobutane (c-C ₄ F ₈ or PFC-318). <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 261-269	6.8	37
155	Stable carbon isotope fractionation in the UV photolysis of CFC-11 and CFC-12. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4379-4385	6.8	6
154	Molecular hydrogen (H ₂) combustion emissions and their isotope (D/H) signatures from domestic heaters, diesel vehicle engines, waste incinerator plants, and biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6275-6289	6.8	9
153	The stable isotopic composition of molecular hydrogen in the tropopause region probed by the CARIBIC aircraft. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4633-4646	6.8	9
152	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
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, 6985-6999	6.8	17
150	Methane flux, vertical gradient and mixing ratio measurements in a tropical forest. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7943-7953	6.8	30
149	Interpreting methane variations in the past two decades using measurements of CH ₄ mixing ratio and isotopic composition. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9141-9153	6.8	83
148	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
147	H ₂ 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
146	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
145	Global modelling of H ₂ mixing ratios and isotopic compositions with the TM5 model. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7001-7026	6.8	22
144	Impact of ammonium nitrate chemistry on the AOT in Cabauw, the Netherlands. <i>Atmospheric Environment</i> , 2011 , 45, 5640-5646	5.3	10
143	Methyl chloride and C ₂ -C ₅ hydrocarbon emissions from dry leaf litter and their dependence on temperature. <i>Atmospheric Environment</i> , 2011 , 45, 3112-3119	5.3	27
142	Emissions of H ₂ and CO from leaf litter of <i>Sequoiadendron giganteum</i> , and their dependence on UV radiation and temperature. <i>Atmospheric Environment</i> , 2011 , 45, 7520-7524	5.3	23
141	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
140	Analytical system for stable carbon isotope measurements of low molecular weight (C ₂ -C ₆) hydrocarbons. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1161-1175	4	9
139	Simultaneous stable isotope analysis of methane and nitrous oxide on ice core samples. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2607-2618	4	35

138	Analytical system for carbon stable isotope measurements of light non-methane hydrocarbons 2011 ,		1
137	UV-induced emissions of C2 - C5 hydrocarbons from leaf litter. <i>Environmental Chemistry</i> , 2011 , 8, 602	3.2	13
136	Tropical dehydration processes constrained by the seasonality of stratospheric deuterated water. <i>Nature Geoscience</i> , 2010 , 3, 262-266	18.3	44
135	Continuous-flow isotope ratio mass spectrometry method for carbon and hydrogen isotope measurements on atmospheric methane 2010 ,		3
134	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	5 ¹
133	Isotopic composition of H ₂ from wood burning: Dependency on combustion efficiency, moisture content, and δ of local precipitation. <i>Journal of Geophysical Research</i> , 2010 , 115,		17
132	Water drives the deuterium content of the methane emitted from plants. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 3865-3873	5.5	15
131	Isotope effect in the formation of H ₂ from H ₂ CO studied at the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5343-5357	6.8	15
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41	Molecular hydrogen (H_2) emissions and their isotopic signatures (H/D) from a motor vehicle: implications on atmospheric H_2 ;		2
40	Temporal and spatial variability of the stable isotopic composition of atmospheric molecular hydrogen: observations at six EUROHYDROS stations		4
39	The isotopic composition of methane in the stratosphere: high-altitude balloon sample measurements		1
38	Long-term tropospheric trend of octafluorocyclobutane (C_4F_8 or PFC-318)		1
37	Optimizing global CO emissions using a four-dimensional variational data assimilation system and surface network observations		2
36	H_2 ; vertical profiles in the continental boundary layer: measurements at the Cabauw tall tower in the Netherlands		1
35	Global modelling of H_2 ; mixing ratios and isotopic compositions with the TM5 model		5
34	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions		6
33	Reconstruction of the carbon isotopic composition of methane over the last 50 yr based on firn air measurements at 11 polar sites		6
32	Reconstruction of Northern Hemisphere 1950-2010 atmospheric non-methane hydrocarbons		2
31	Estimation of aerosol water and chemical composition from AERONET at Cabauw, the Netherlands		2

30	A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements	5
29	Development of an atmospheric N ₂ /O isotopocule model and optimization procedure, and application to source estimation	2
28	Isotopic signatures of production and uptake of H ₂ by soil	1
27	Vehicular emissions of organic particulate matter in Sao Paulo, Brazil	3
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2	In Situ Trace Gas Measurements 77-155	4
1	A GC-IRMS method for measuring sulfur isotope ratios of carbonyl sulfide from small air samples. <i>Open Research Europe</i> , 1, 105	0