Guido R Van Der Werf

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147 31,958 papers citations

71 h-index 157 g-index

157 ext. papers

38,274 ext. citations

10.5 avg, IF

6.78 L-index

#	Paper	IF	Citations
147	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997\(\bar{\pi}\)009). Atmospheric Chemistry and Physics, 2010, 10, 11707-11735	6.8	2013
146	Fire in the Earth system. Science, 2009, 324, 481-4	33.3	1799
145	Trends in the sources and sinks of carbon dioxide. <i>Nature Geoscience</i> , 2009 , 2, 831-836	18.3	1453
144	Interannual variability in global biomass burning emissions from 1997 to 2004. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3423-3441	6.8	1383
143	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013 , 6, 813-823	18.3	1293
142	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194	10.5	831
141	Analysis of daily, monthly, and annual burned area using the fourth-generation global fire emissions database (GFED4). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 317-328	3.7	829
140	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. <i>Nature</i> , 2014 , 509, 600-3	50.4	778
139	Global Carbon Budget 2019. Earth System Science Data, 2019 , 11, 1783-1838	10.5	776
138	Emissions of primary aerosol and precursor gases in the years 2000 and 1750 prescribed data-sets for AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4321-4344	6.8	765
137	Contribution of anthropogenic and natural sources to atmospheric methane variability. <i>Nature</i> , 2006 , 443, 439-43	50.4	762
136	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18925-30	11.5	737
135	Global Carbon Budget 2016. Earth System Science Data, 2016 , 8, 605-649	10.5	73°
134	Global fire emissions estimates during 1997\(\mathbb{0}\)016. Earth System Science Data, 2017, 9, 697-720	10.5	693
133	Biomass burning emissions estimated with a global fire assimilation system based on observed fire radiative power. <i>Biogeosciences</i> , 2012 , 9, 527-554	4.6	677
132	The global methane budget 2000🛭012. Earth System Science Data, 2016, 8, 697-751	10.5	641
131	Carbon emissions from land use and land-cover change. <i>Biogeosciences</i> , 2012 , 9, 5125-5142	4.6	629

(2020-2011)

130	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980\(\mathbb{0}\)010 period. Climatic Change, 2011, 109, 163-190	4.5	623
129	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448	10.5	614
128	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340	10.5	533
127	Global Carbon Budget 2015. Earth System Science Data, 2015 , 7, 349-396	10.5	513
126	Continental-scale partitioning of fire emissions during the 1997 to 2001 El Ni B/La Ni period. Science, 2004, 303, 73-6	33.3	480
125	Assessing variability and long-term trends in burned area by merging multiple satellite fire products. <i>Biogeosciences</i> , 2010 , 7, 1171-1186	4.6	471
124	The Global Methane Budget 2000\(\mathbb{\textit{0}}\)017. Earth System Science Data, 2020 , 12, 1561-1623	10.5	463
123	Global estimation of burned area using MODIS active fire observations. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 957-974	6.8	448
122	Global burned area and biomass burning emissions from small fires. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		446
121	The global carbon budget 1959\(\mathbb{Q}\)011. Earth System Science Data, 2013, 5, 165-185	10.5	436
120	A human-driven decline in global burned area. <i>Science</i> , 2017 , 356, 1356-1362	33.3	433
119	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85	10.5	367
118	Drought and ecosystem carbon cycling. Agricultural and Forest Meteorology, 2011, 151, 765-773	5.8	359
117	Global vulnerability of peatlands to fire and carbon loss. <i>Nature Geoscience</i> , 2015 , 8, 11-14	18.3	357
116	Carbon emissions from fires in tropical and subtropical ecosystems. <i>Global Change Biology</i> , 2003 , 9, 547	'-56 24	348
115	Climate regulation of fire emissions and deforestation in equatorial Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20350-5	11.5	278
114	Human amplification of drought-induced biomass burning in Indonesia since 1960. <i>Nature Geoscience</i> , 2009 , 2, 185-188	18.3	270
113	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020 , 586, 248-256	50.4	270

112	Vegetation fire emissions and their impact on air pollution and climate. <i>Atmospheric Environment</i> , 2009 , 43, 107-116	5.3	265
111	Historic global biomass burning emissions for CMIP6 (BB4CMIP) based on merging satellite observations with proxies and fire models (1750\(\textbf{Q}\) 015). <i>Geoscientific Model Development</i> , 2017 , 10, 3329	9-3357	212
110	The European carbon balance. Part 3: forests. <i>Global Change Biology</i> , 2010 , 16, 1429-1450	11.4	206
109	Climate controls on the variability of fires in the tropics and subtropics. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	193
108	The status and challenge of global fire modelling. <i>Biogeosciences</i> , 2016 , 13, 3359-3375	4.6	193
107	Global impacts of aerosols from particular source regions and sectors. <i>Journal of Geophysical Research</i> , 2007 , 112,		191
106	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010 , 16, 1317-1337	11.4	182
105	Indonesian fire activity and smoke pollution in 2015 show persistent nonlinear sensitivity to El NiB-induced drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9204-9	11.5	178
104	Using satellite based soil moisture to quantify the water driven variability in NDVI: A case study over mainland Australia. <i>Remote Sensing of Environment</i> , 2014 , 140, 330-338	13.2	174
103	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1037-1060	6.8	167
102	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		165
101	The European carbon balance. Part 2: croplands. <i>Global Change Biology</i> , 2010 , 16, 1409-1428	11.4	165
100	Agricultural intensification increases deforestation fire activity in Amazonia. <i>Global Change Biology</i> , 2008 , 14, 2262-2275	11.4	154
99	Historical background and current developments for mapping burned area from satellite Earth observation. <i>Remote Sensing of Environment</i> , 2019 , 225, 45-64	13.2	152
98	Recent trends in African fires driven by cropland expansion and El Ni B to La Ni transition. Nature Climate Change, 2014, 4, 791-795	21.4	142
97	Vegetation fires in the Anthropocene. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 500-515	30.2	135
96	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014 , 11, 381-407	4.6	134
95	Global emissions of non-methane hydrocarbons deduced from SCIAMACHY formaldehyde columns through 2003\(\bar{1}\) 2006. Atmospheric Chemistry and Physics, 2009, 9, 3663-3679	6.8	124

94	Global carbon budget 2014		121
93	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011 , 92, S1-S236	6.1	114
92	The Global Fire Atlas of individual fire size, duration, speed and direction. <i>Earth System Science Data</i> , 2019 , 11, 529-552	10.5	113
91	Biological and geophysical feedbacks with fire in the Earth system. <i>Environmental Research Letters</i> , 2018 , 13, 033003	6.2	108
90	Long-term trends and interannual variability of forest, savanna and agricultural fires in South America. <i>Carbon Management</i> , 2013 , 4, 617-638	3.3	96
89	Biomass burning fuel consumption rates: a field measurement database. <i>Biogeosciences</i> , 2014 , 11, 7305	-73629	95
88	Fire emissions from C3 and C4 vegetation and their influence on interannual variability of atmospheric CO2 and 🛘 3CO2. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	93
87	Top-down estimates of global CO sources using MOPITT measurements. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	91
86	Time-dependent inversion estimates of global biomass-burning CO emissions using Measurement of Pollution in the Troposphere (MOPITT) measurements. <i>Journal of Geophysical Research</i> , 2006 , 111,		90
85	Spatial and temporal variability in the ratio of trace gases emitted from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3611-3629	6.8	89
84	Natural land carbon dioxide exchanges in the ECMWF integrated forecasting system: Implementation and offline validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5923	- \$ 9 4 6	88
83	Global fire emissions buffered by the production of pyrogenic carbon. <i>Nature Geoscience</i> , 2019 , 12, 742-	- 7.487 3	81
82	A global analysis of the impact of drought on net primary productivity. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 3885-3894	5.5	80
81	Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10133-10158	6.8	77
80	Global AIRS and MOPITT CO measurements: Validation, comparison, and links to biomass burning variations and carbon cycle. <i>Journal of Geophysical Research</i> , 2008 , 113,		77
79	An aerosol boomerang: Rapid around-the-world transport of smoke from the December 2006 Australian forest fires observed from space. <i>Journal of Geophysical Research</i> , 2009 , 114,		76
78	A pan-tropical cascade of fire driven by El NiB/Southern Oscillation. <i>Nature Climate Change</i> , 2017 , 7, 906-911	21.4	74
77	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997\(\textbf{Q}\)009)		71

76	Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences. <i>Global Change Biology</i> , 2017 , 23, 977-982	11.4	67
75	Nitrogen deposition in tropical forests from savanna and deforestation fires. <i>Global Change Biology</i> , 2010 , 16, 2024-2038	11.4	67
74	Estimates of fire emissions from an active deforestation region in the southern Amazon based on satellite data and biogeochemical modelling. <i>Biogeosciences</i> , 2009 , 6, 235-249	4.6	66
73	Contribution of ocean, fossil fuel, land biosphere, and biomass burning carbon fluxes to seasonal and interannual variability in atmospheric CO2. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		63
72	Evidence for long-range transport of carbon monoxide in the Southern Hemisphere from SCIAMACHY observations. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	63
71	The use of ATSR active fire counts for estimating relative patterns of biomass burning lastudy from the boreal forest region. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	59
70	Importance of transboundary transport of biomass burning emissions to regional air quality in Southeast Asia during a high fire event. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 363-373	6.8	53
69	Satellite observations indicate substantial spatiotemporal variability in biomass burning NO_x emission factors for South America. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3929-3943	6.8	52
68	African burned area and fire carbon emissions are strongly impacted by small fires undetected by coarse resolution satellite data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	52
67	Fire and deforestation dynamics in Amazonia (1973-2014). Global Biogeochemical Cycles, 2017, 31, 24-3	38 5.9	51
67 66	Fire and deforestation dynamics in Amazonia (1973-2014). Global Biogeochemical Cycles, 2017, 31, 24-3. Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El NiB. Geophysical Research Letters, 2016, 43, 10,472-10,479	4.9	50
•	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Ni B .		50
66	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Ni B . <i>Geophysical Research Letters</i> , 2016 , 43, 10,472-10,479	4.9	50
66	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Ni Geophysical Research Letters, 2016, 43, 10,472-10,479 Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005 Optimizing global CO emission estimates using a four-dimensional variational data assimilation	4.9	50
666564	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Ni\(\textit{\textit{B}}\). Geophysical Research Letters, 2016 , 43, 10,472-10,479 Global Carbon Budget 2021. Earth System Science Data, 2022 , 14, 1917-2005 Optimizing global CO emission estimates using a four-dimensional variational data assimilation system and surface network observations. Atmospheric Chemistry and Physics, 2011 , 11, 4705-4723 What could have caused pre-industrial biomass burning emissions to exceed current rates?. Climate	4.9 10.5 6.8	50 47 46
66656463	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El NiB. <i>Geophysical Research Letters</i> , 2016 , 43, 10,472-10,479 Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005 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 What could have caused pre-industrial biomass burning emissions to exceed current rates?. <i>Climate of the Past</i> , 2013 , 9, 289-306 Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris	4.9 10.5 6.8 3.9	50 47 46 44
6665646362	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Ni\(\textit{B}\). Geophysical Research Letters, 2016, 43, 10,472-10,479 Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005 Optimizing global CO emission estimates using a four-dimensional variational data assimilation system and surface network observations. Atmospheric Chemistry and Physics, 2011, 11, 4705-4723 What could have caused pre-industrial biomass burning emissions to exceed current rates?. Climate of the Past, 2013, 9, 289-306 Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 1475-1512 Evaluation of cropland maximum light use efficiency using eddy flux measurements in North	4.9 10.5 6.8 3.9 5.9	50 47 46 44 40

(2010-2008)

58	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	
57	Chapter G2 Carbon emissions from land use and land-cover change		36	
56	The generation of gridded emissions data for CMIP6. Geoscientific Model Development, 2020, 13, 461-4	.82 6.3	35	
55	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	
54	Scanning Imaging Absorption Spectrometer for Atmospheric Chartography carbon monoxide total columns: Statistical evaluation and comparison with chemistry transport model results. <i>Journal of Geophysical Research</i> , 2007 , 112,		35	
53	Terrestrial cycling of ¹³CO₂ by photosynthesis, respiration, and biomass burning in SiBCASA. <i>Biogeosciences</i> , 2014 , 11, 6553-6571	4.6	34	
52	Fire-related carbon emissions from land use transitions in southern Amazonia. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	32	
51	Biomass burning fuel consumption dynamics in the tropics and subtropics assessed from satellite. <i>Biogeosciences</i> , 2016 , 13, 3717-3734	4.6	30	
50	Historical (1700 1 012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12545-12567	6.8	29	
49	Dynamic biomass burning emission factors and their impact on atmospheric CO mixing ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6797-6815	4.4	29	
48	Optimal use of land surface temperature data to detect changes in tropical forest cover. <i>Journal of Geophysical Research</i> , 2011 , 116,		29	
47	New fire diurnal cycle characterizations to improve fire radiative energy assessments made from MODIS observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8831-8846	6.8	28	
46	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128	6.1	26	
45	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	
44	Precipitation fi re linkages in Indonesia (1997 1 015). <i>Biogeosciences</i> , 2017 , 14, 3995-4008	4.6	24	
43	Modeling fire-driven deforestation potential in Amazonia under current and projected climate conditions. <i>Journal of Geophysical Research</i> , 2010 , 115,		24	
42	Monitoring emissions from the 2015 Indonesian fires using CO satellite data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	23	
41	A carbon cycle science update since IPCC AR-4. <i>Ambio</i> , 2010 , 39, 402-12	6.5	22	

40	Annual South American forest loss estimates based on passive microwave remote sensing (1990\(\textbf{Q}\)010). <i>Biogeosciences</i> , 2016 , 13, 609-624	4.6	22
39	Relationships between burned area, forest cover loss, and land cover change in the Brazilian Amazon based on satellite data. <i>Biogeosciences</i> , 2015 , 12, 6033-6043	4.6	20
38	Global cropland monthly gross primary production in the year 2000. <i>Biogeosciences</i> , 2014 , 11, 3871-3880	04.6	20
37	The Impact of Uncertainties in African Biomass Burning Emission Estimates on Modeling Global Air Quality, Long Range Transport and Tropospheric Chemical Lifetimes. <i>Atmosphere</i> , 2012 , 3, 132-163	2.7	20
36	The role of fire in global forest loss dynamics. <i>Global Change Biology</i> , 2021 , 27, 2377-2391	11.4	16
35	Fine Particle Emissions From Tropical Peat Fires Decrease Rapidly With Time Since Ignition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5607-5617	4.4	15
34	Opportunities and challenges for savanna burning emissions abatement in southern Africa. <i>Journal of Environmental Management</i> , 2021 , 288, 112414	7.9	15
33	Biomass burning emissions estimated with a global fire assimilation system based on observed fire radiative power		14
32	Biomass burning fuel consumption rates: a field measurement database		12
31	Vast CO release from Australian fires in 2019-2020 constrained by satellite. <i>Nature</i> , 2021 , 597, 366-369	50.4	12
30	Impact of the Atlantic Multidecadal Oscillation (AMO) on deriving anthropogenic warming rates from the instrumental temperature record. <i>Earth System Dynamics</i> , 2014 , 5, 375-382	4.8	11
29	Satellite evidence of substantial rain-induced soil emissions of ammonia across the Sahel. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16713-16727	6.8	11
28	Global fire emissions estimates during 1997\(\bar{\pi}\)015		10
27	Biomass burning combustion efficiency observed from space using measurements of CO and NO₂ by the TROPOspheric Monitoring Instrument (TROPOMI). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 597-616	6.8	10
26	Fire Research: Linking Past, Present, and Future Data. <i>Eos</i> , 2013 , 94, 421-422	1.5	8
25	The full greenhouse gases budget of Africa: synthesis, uncertainties and vulnerabilities		7
24	Assessing variability and long-term trends in burned area by merging multiple satellite fire products		7
23	Correction to Bcanning Imaging Absorption Spectrometer for Atmospheric Chartography carbon monoxide total columns: Statistical evaluation and comparison with chemistry transport model results [] Journal of Geophysical Research, 2007, 112,		6

22	Modelling biomass burning emissions and the effect of spatial resolution: a case study for Africa based on the Global Fire Emissions Database (GFED). <i>Geoscientific Model Development</i> , 2019 , 12, 4681-4	703	6
21	Intraseasonal variability of greenhouse gas emission factors from biomass burning in the Brazilian Cerrado. <i>Biogeosciences</i> , 2021 , 18, 1375-1393	4.6	6
20	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns		5
19	Historic global biomass burning emissions based on merging satellite observations with proxies and fire models (1750 1 015) 2017 ,		4
18	Importance of transboundary transport of biomass burning emissions to regional air quality in Southeast Asia		4
17	Estimates of fire emissions from an active deforestation region in the southern Amazon based on satellite data and biogeochemical modelling		4
16	Forecasting Global Fire Emissions on Subseasonal to Seasonal (S2S) Time Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001955	7.1	4
15	Disentangling effects of key coarse woody debris fuel properties on its combustion, consumption and carbon gas emissions during experimental laboratory fire. <i>Forest Ecology and Management</i> , 2018 , 427, 275-288	3.9	3
14	Spatial and temporal variability in the ratio of trace gases emitted from biomass burning		3
13	Relationships between burned area, forest cover loss and land use change in the Brazilian Amazon based on satellite data		3
12	A global analysis of the impact of drought on net primary productivity		3
11	Instantaneous Pre-Fire Biomass and Fuel Load Measurements from Multi-Spectral UAS Mapping in Southern African Savannas. <i>Fire</i> , 2021 , 4, 2	2.4	3
10	Historical (1700🛮012) Global Multi-model Estimates of the Fire Emissions from the Fire Modeling Intercomparison Project (FireMIP) 2019 ,		2
9	Optimizing global CO emissions using a four-dimensional variational data assimilation system and surface network observations		2
8	Satellite observations indicate substantial spatiotemporal variability in biomass burning NO _x emission factors for South America		2
7	New fire diurnal cycle characterizations to improve fire radiative energy assessments made from low-Earth orbit satellites sampling		2
6	Towards multi-tracer data-assimilation: biomass burning and carbon isotope exchange in SiBCASA		1
5	Annual South American forest loss estimates based on passive microwave remote sensing (1990\(\textbf{D}\)010)		1

- What could have caused pre-industrial biomass burning emissions to exceed current rates?
- Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations **2016**,
- Stable carbon isotopic composition of biomass burning emissions [Implications for estimating the contribution of C<sub&gt;3&lt;/sub&gt;\angle and Physics, 2022, 22, 2871-2890 C&lt;sub&gt;4&lt;/sub&gt;\angle and Physics, 2022, 22, 2871-2890
- New land-use-change emissions indicate a declining CO airborne fraction.. Nature, **2022**, 603, 450-454 $_{50.4}$ 1