

Richard Engelen

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.

37
papers

1,647
citations

17
h-index

40
g-index

72
ext. papers

2,103
ext. citations

7.2
avg, IF

3.73
L-index

#	Paper	IF	Citations
37	Global nature run data with realistic high-resolution carbon weather for the year of the Paris Agreement.. <i>Scientific Data</i> , 2022 , 9, 160	8.2	1
36	Quantification of methane emissions from hotspots and during COVID-19 using a global atmospheric inversion. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5961-5981	6.8	1
35	Global anthropogenic CO ₂ emissions and uncertainties as a prior for Earth system modelling and data assimilation. <i>Earth System Science Data</i> , 2021 , 13, 5311-5335	10.5	3
34	Systematic detection of local CH ₄ anomalies by combining satellite measurements with high-resolution forecasts. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5117-5136	6.8	10
33	Estimating lockdown-induced European NO ₂ changes using satellite and surface observations and air quality models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7373-7394	6.8	19
32	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091987	4.9	19
31	The Community Inversion Framework v1.0: a unified system for atmospheric inversion studies. <i>Geoscientific Model Development</i> , 2021 , 14, 5331-5354	6.3	2
30	Evaluation and intercomparison of wildfire smoke forecasts from multiple modeling systems for the 2019 Williams Flats fire. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14427-14469	6.8	9
29	An algorithm to detect non-background signals in greenhouse gas time series from European tall tower and mountain stations. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6119-6135	4	0
28	The CO ₂ Human Emissions (CHE) Project: First Steps Towards a European Operational Capacity to Monitor Anthropogenic CO ₂ Emissions. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	4
27	Representing model uncertainty for global atmospheric CO ₂ flux inversions using ECMWF-IFS-46R1. <i>Geoscientific Model Development</i> , 2020 , 13, 2297-2313	6.3	11
26	Description and evaluation of the tropospheric aerosol scheme in the Integrated Forecasting System (IFS-AER, cycle 45R1) of ECMWF 2019 ,		1
25	The CAMS reanalysis of atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3515-3556	6.8	233
24	Modelling CO ₂ weather why horizontal resolution matters. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7347-7376	6.8	31
23	Description and evaluation of the tropospheric aerosol scheme in the European Centre for Medium-Range Weather Forecasts (ECMWF) Integrated Forecasting System (IFS-AER, cycle 45R1). <i>Geoscientific Model Development</i> , 2019 , 12, 4627-4659	6.3	29
22	The CAMS reanalysis of atmospheric composition 2018 ,		2
21	The CAMS interim Reanalysis of Carbon Monoxide, Ozone and Aerosol for 2003-2015. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1945-1983	6.8	90

20	Two global data sets of daily fire emission injection heights since 2003. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2921-2942	6.8	42
19	The CAMS interim Reanalysis of Carbon Monoxide, Ozone and Aerosol for 2003-2015 2016 ,		2
18	Feedbacks of dust and boundary layer meteorology during a dust storm in the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12909-12933	6.8	32
17	Data assimilation of satellite-retrieved ozone, carbon monoxide and nitrogen dioxide with ECMWF's Composition-IFS. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5275-5303	6.8	82
16	Validation of reactive gases and aerosols in the MACC global analysis and forecast system. <i>Geoscientific Model Development</i> , 2015 , 8, 3523-3543	6.3	38
15	A regional air quality forecasting system over Europe: the MACC-II daily ensemble production. <i>Geoscientific Model Development</i> , 2015 , 8, 2777-2813	6.3	148
14	Tropospheric chemistry in the Integrated Forecasting System of ECMWF. <i>Geoscientific Model Development</i> , 2015 , 8, 975-1003	6.3	137
13	Assimilation of atmospheric methane products into the MACC-II system: from SCIAMACHY to TANSO and IASI. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6139-6158	6.8	39
12	Forecasting global atmospheric CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11959-11983	6.8	49
11	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014 , 11, 3547-3602	4.6	136
10	The MACC reanalysis: an 8 yr data set of atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4073-4109	6.8	352
9	Iconic CO ₂ time series at risk. <i>Science</i> , 2012 , 337, 1038-40	33.3	13
8	Observational Evidence for the Mutual Regulation of the Tropical Hydrological Cycle and Tropical Sea Surface Temperatures. <i>Journal of Climate</i> , 2004 , 17, 2213-2224	4.4	84
7	Estimating lockdown induced European NO _x changes		6
6	The MACC reanalysis: an 8-yr data set of atmospheric composition		2
5	Forecasting global atmospheric CO ₂ ;		2
4	Data assimilation of satellite retrieved ozone, carbon monoxide and nitrogen dioxide with ECMWF's Composition-IFS		1
3	Global anthropogenic CO ₂ emissions and uncertainties as prior for Earth system modelling and data assimilation		4

2	Tropospheric chemistry in the integrated forecasting system of ECMWF	7
1	Assimilation of atmospheric methane products in the MACC-II system: from SCIAMACHY to TANSO and IASI	1