

Vincent-Henri Peuch

List of Publications by Year in descending order

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73
papers

5,246
citations

125106

35
h-index

116156

66
g-index

108
all docs

108
docs citations

108
times ranked

6097
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential impact of government lockdown policies on reducing air pollution levels and related mortality in Europe. <i>Scientific Reports</i> , 2022, 12, 726.	1.6	20
2	European primary emissions of criteria pollutants and greenhouse gases in 2020 modulated by the COVID-19 pandemic disruptions. <i>Earth System Science Data</i> , 2022, 14, 2521-2552.	3.7	15
3	Description and evaluation of the tropospheric aerosol scheme in the Integrated Forecasting System (IFS-AER, cycle 47R1) of ECMWF. <i>Geoscientific Model Development</i> , 2022, 15, 4881-4912.	1.3	8
4	Time-resolved emission reductions for atmospheric chemistry modelling in Europe during the COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 773-797.	1.9	84
5	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.	1.9	24
6	The need for Pan-European automatic pollen and fungal spore monitoring: A stakeholder workshop position paper. <i>Clinical and Translational Allergy</i> , 2021, 11, e12015.	1.4	18
7	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.	1.9	55
8	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.	1.9	37
9	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. <i>Environment International</i> , 2021, 157, 106818.	4.8	126
10	Global Air Quality: An Inter-Disciplinary Approach to Exposure Assessment for Burden of Disease Analyses. <i>Atmosphere</i> , 2021, 12, 48.	1.0	14
11	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3367-3405.	1.5	8
12	Modelling CO ₂ weather “ why horizontal resolution matters. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7347-7376.	1.9	49
13	The value of satellite observations in the analysis and short-range prediction of Asian dust. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 987-998.	1.9	24
14	Ensemble forecasts of air quality in eastern China “ Part 2: Evaluation of the MarcoPolo“Panda prediction system, version 1. <i>Geoscientific Model Development</i> , 2019, 12, 1241-1266.	1.3	25
15	The CAMS reanalysis of atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3515-3556.	1.9	524
16	Ensemble forecasts of air quality in eastern China “ Part 1: Model description and implementation of the MarcoPolo“Panda prediction system, version 1. <i>Geoscientific Model Development</i> , 2019, 12, 33-67.	1.3	39
17	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.	1.3	71
18	The Use of Satellite Data in the Copernicus Atmosphere Monitoring Service (Cams). , 2018, , .		3

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19	Five steps to improve air-quality forecasts. <i>Nature</i> , 2018, 561, 27-29.	13.7	38
20	The CAMS interim Reanalysis of Carbon Monoxide, Ozone and Aerosol for 2003–2015. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1945-1983.	1.9	127
21	Development of West-European PM 2.5 and NO ₂ land use regression models incorporating satellite-derived and chemical transport modelling data. <i>Environmental Research</i> , 2016, 151, 1-10.	3.7	145
22	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.	1.9	43
23	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.	1.9	109
24	MACC regional multi-model ensemble simulations of birch pollen dispersion in Europe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8115-8130.	1.9	70
25	A regional air quality forecasting system over Europe: the MACC-II daily ensemble production. <i>Geoscientific Model Development</i> , 2015, 8, 2777-2813.	1.3	214
26	Tropospheric chemistry in the Integrated Forecasting System of ECMWF. <i>Geoscientific Model Development</i> , 2015, 8, 975-1003.	1.3	204
27	Tropospheric CO vertical profiles deduced from total columns using data assimilation: methodology and validation. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3035-3057.	1.2	7
28	Monitoring the lowermost tropospheric ozone with thermal infrared observations from a geostationary platform: performance analyses for a future dedicated instrument. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 391-407.	1.2	3
29	Combined data assimilation of ozone tropospheric columns and stratospheric profiles in a high-resolution CTM. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 966-981.	1.0	20
30	Impact of the Asian monsoon anticyclone on the variability of mid-to-upper tropospheric methane above the Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11427-11446.	1.9	26
31	Forecasting global atmospheric CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11959-11983.	1.9	74
32	Analysis of the potential of one possible instrumental configuration of the next generation of IASI instruments to monitor lower tropospheric ozone. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 621-635.	1.2	16
33	Diagnosing the transition layer at extratropical latitudes using MLS O ₃ and MOPITT CO analyses. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7225-7240.	1.9	12
34	The effect of using limited scene-dependent averaging kernels approximations for the implementation of fast observing system simulation experiments targeted on lower tropospheric ozone. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1869-1881.	1.2	4
35	How realistic are air quality hindcasts driven by forcings from climate model simulations?. <i>Geoscientific Model Development</i> , 2012, 5, 1565-1587.	1.3	15
36	Monitoring Air Quality from Space: The Case for the Geostationary Platform. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 221-233.	1.7	41

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37	Impact of a time-dependent background error covariance matrix on air quality analysis. <i>Geoscientific Model Development</i> , 2012, 5, 1075-1090.	1.3	15
38	3-D evaluation of tropospheric ozone simulations by an ensemble of regional Chemistry Transport Model. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3219-3240.	1.9	44
39	Stratosphere-troposphere ozone exchange from high resolution MLS ozone analyses. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6129-6144.	1.9	23
40	A review of operational, regional-scale, chemical weather forecasting models in Europe. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1-87.	1.9	265
41	Objective classification of air quality monitoring sites over Europe. <i>Atmospheric Environment</i> , 2012, 47, 111-123.	1.9	69
42	Validity of satellite measurements used for the monitoring of UV radiation risk on health. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13377-13394.	1.9	26
43	A thermal infrared instrument onboard a geostationary platform for CO and O ₃ measurements in the lowermost troposphere: Observing System Simulation Experiments (OSSE). <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1637-1661.	1.2	36
44	A geostationary thermal infrared sensor to monitor the lowermost troposphere: O ₃ and CO retrieval studies. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 297-317.	1.2	22
45	Comparison of OMI NO ₂ tropospheric columns with an ensemble of global and European regional air quality models. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3273-3296.	1.9	165
46	A linear CO chemistry parameterization in a chemistry-transport model: evaluation and application to data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6097-6115.	1.9	20
47	Global model simulations of air pollution during the 2003 European heat wave. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 789-815.	1.9	67
48	Midlatitude stratosphere – troposphere exchange as diagnosed by MLS O ₃ and MOPITT CO assimilated fields. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2175-2194.	1.9	54
49	Impact of West African Monsoon convective transport and lightning NO _x production upon the upper tropospheric composition: a multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5719-5738.	1.9	57
50	Current status of the ability of the GEMS/MACC models to reproduce the tropospheric CO vertical distribution as measured by MOZIC. <i>Geoscientific Model Development</i> , 2010, 3, 501-518.	1.3	56
51	The Concordiasi Project in Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 69-86.	1.7	78
52	Global Chemistry Simulations in the AMMA Multimodel Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 611-624.	1.7	21
53	Prev'air: An Operational Forecasting and Mapping System for Air Quality in Europe. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 73-84.	1.7	122
54	Equatorial total column of nitrous oxide as measured by IASI on MetOp-A: implications for transport processes. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3947-3956.	1.9	39

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55	Equatorial transport as diagnosed from nitrous oxide variability. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8173-8188.	1.9	22
56	Equilibrium of sinks and sources of sulphate over Europe: comparison between a six-year simulation and EMEP observations. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4505-4519.	1.9	14
57	On the extraction of wind information from the assimilation of ozone profiles in MÃ©tÃ©o-France 4-D-Var operational NWP suite. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4855-4867.	1.9	43
58	Predictability of European air quality: Assessment of 3 years of operational forecasts and analyses by the PREV'AIR system. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	134
59	TOWARD A MONITORING AND FORECASTING SYSTEM FOR ATMOSPHERIC COMPOSITION. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1147-1164.	1.7	253
60	Transport pathways of CO in the African upper troposphere during the monsoon season: a study based upon the assimilation of spaceborne observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3231-3246.	1.9	81
61	Examination of the 2002 major warming in the southern hemisphere using ground-based and Odin/SMR assimilated data: stratospheric ozone distributions and tropic/mid-latitude exchange. <i>Canadian Journal of Physics</i> , 2007, 85, 1287-1300.	0.4	34
62	Impact of land convection on troposphere-stratosphere exchange in the tropics. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5639-5657.	1.9	65
63	The Assimilation of Envisat data (ASSET) project. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1773-1796.	1.9	69
64	A new tropospheric and stratospheric Chemistry and Transport Model MOCAGE-Climat for multi-year studies: evaluation of the present-day climatology and sensitivity to surface processes. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5815-5860.	1.9	107
65	The Global Atmospheric Environment for the Next Generation. <i>Environmental Science & Technology</i> , 2006, 40, 3586-3594.	4.6	338
66	The ASSET intercomparison of ozone analyses: method and first results. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5445-5474.	1.9	110
67	Evaluation of 2001 springtime CO transport over West Africa using MOPITT CO measurements assimilated in a global chemistry transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 163-176.	0.8	34
68	Measured and modeled dry deposition velocities over the ESCOMPTE area. <i>Atmospheric Research</i> , 2005, 74, 89-116.	1.8	48
69	Observed and modelled "chemical weather" during ESCOMPTE. <i>Atmospheric Research</i> , 2005, 74, 161-189.	1.8	96
70	The ESCOMPTE program: an overview. <i>Atmospheric Research</i> , 2004, 69, 241-279.	1.8	173
71	Sieving Properties of Zeolites for C6~C8 Hydrocarbons: The Effects of a Trimethyltin Complex Grafted on the Pore Edge. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8696-8703.	1.2	9
72	Nitriles and Hydrogen on a Nickel Catalyst: Theoretical Evidence of a Process Competing with the Total Hydrogenation Reaction. <i>Journal of Catalysis</i> , 1996, 159, 383-393.	3.1	25

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73	Adsorption Modes of Acetonitrile on Ni(111), Ni(100), and Ni(110). A Semiempirical Theoretical Study. Langmuir, 1995, 11, 3828-3844.	1.6	22