## Hartwig D Harder

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5682941/publications.pdf

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90 papers 7,407 citations

43 h-index 78 g-index

167 all docs

167 docs citations

times ranked

167

4481 citing authors

#	Article	IF	CITATIONS
1	Tropospheric ozone production and chemical regime analysis during the COVID-19 lockdown over Europe. Atmospheric Chemistry and Physics, 2022, 22, 6151-6165.	1.9	6
2	Polycyclic aromatic hydrocarbons (PAHs) and their alkylated, nitrated and oxygenated derivatives in the atmosphere over the Mediterranean and Middle East seas. Atmospheric Chemistry and Physics, 2022, 22, 8739-8766.	1.9	16
3	Measurement report: In situ observations of deep convection without lightning during the tropical cyclone Florence 2018. Atmospheric Chemistry and Physics, 2021, 21, 7933-7945.	1.9	4
4	Reactive nitrogen around the Arabian Peninsula and in the Mediterranean Sea during the 2017 AQABA ship campaign. Atmospheric Chemistry and Physics, 2021, 21, 7473-7498.	1.9	12
5	Central role of nitric oxide in ozone production in the upper tropical troposphere over the Atlantic Ocean and western Africa. Atmospheric Chemistry and Physics, 2021, 21, 8195-8211.	1.9	12
6	Shipborne measurements of methane and carbon dioxide in the Middle East and Mediterranean areas and the contribution from oil and gas emissions. Atmospheric Chemistry and Physics, 2021, 21, 12443-12462.	1.9	16
7	Modification of a conventional photolytic converter for improving aircraft measurements of NO <sub>2</sub> via chemiluminescence. Atmospheric Measurement Techniques, 2021, 14, 6759-6776.	1.2	14
8	Measurement report: Observation-based formaldehyde production rates and their relation to OH reactivity around the Arabian Peninsula. Atmospheric Chemistry and Physics, 2021, 21, 17373-17388.	1.9	3
9	Measurement report: Photochemical production and loss rates of formaldehyde and ozone across Europe. Atmospheric Chemistry and Physics, 2021, 21, 18413-18432.	1.9	11
10	Influence of vessel characteristics and atmospheric processes on the gas and particle phase of ship emission plumes: in situ measurements in the Mediterranean Sea and around the Arabian Peninsula. Atmospheric Chemistry and Physics, 2020, 20, 4713-4734.	1.9	35
11	Net ozone production and its relationship to nitrogen oxides and volatile organic compounds in the marine boundary layer around the Arabian Peninsula. Atmospheric Chemistry and Physics, 2020, 20, 6769-6787.	1.9	43
12	Calibration of an airborne HO <sub><i>x</i></sub> instrument using the All Pressure Altitude-based Calibrator for HO <sub><i>x Experimentation (APACHE). Atmospheric Measurement Techniques, 2020, 13, 2711-2731.</i></sub>	1.2	11
13	Impact of the South Asian monsoon outflow on atmospheric hydroperoxides in the upper troposphere. Atmospheric Chemistry and Physics, 2020, 20, 12655-12673.	1.9	8
14	The community atmospheric chemistry box model CAABA/MECCA-4.0. Geoscientific Model Development, 2019, 12, 1365-1385.	1.3	54
15	Laser-induced fluorescence-based detection of atmospheric nitrogen dioxide and comparison of different techniques during the PARADEÂ2011 field campaign. Atmospheric Measurement Techniques, 2019, 12, 1461-1481.	1.2	12
16	Diurnal variability, photochemical production and loss processes of hydrogen peroxide in the boundary layer over Europe. Atmospheric Chemistry and Physics, 2019, 19, 11953-11968.	1.9	14
17	Shipborne measurements of ClNO <sub>2</sub> in the Mediterranean Sea and around the Arabian Peninsula during summer. Atmospheric Chemistry and Physics, 2019, 19, 12121-12140.	1.9	23
18	Oxidation processes in the eastern Mediterranean atmosphere: evidence from the modelling of HO <sub><l></l></sub> measurements over Cyprus. Atmospheric Chemistry and Physics, 2018, 18, 10825-10847.	1.9	35

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19	Insights into HO <sub><i>x</i></sub> and RO <sub> chemistry in the boreal forest via measurement of peroxyacetic acid, peroxyacetic nitric anhydride (PAN) and hydrogen peroxide. Atmospheric Chemistry and Physics, 2018, 18, 13457-13479.</sub>	1.9	28
20	The South Asian monsoon—pollution pump and purifier. Science, 2018, 361, 270-273.	6.0	85
21	Estimating the atmospheric concentration of Criegee intermediates and their possible interference in a FAGE-LIF instrument. Atmospheric Chemistry and Physics, 2017, 17, 7807-7826.	1.9	82
22	Chemical processes related to net ozone tendencies in the free troposphere. Atmospheric Chemistry and Physics, 2017, 17, 10565-10582.	1.9	21
23	Assumptions about footprint layer heights influence the quantification of emission sources: aÂcase study for Cyprus. Atmospheric Chemistry and Physics, 2017, 17, 10955-10967.	1.9	8
24	The influence of deep convection on HCHO and H <sub>2</sub> in the upper troposphere over Europe. Atmospheric Chemistry and Physics, 2017, 17, 11835-11848.	1.9	8
25	Volatile organic compounds (VOCs) in photochemically aged air from the eastern and western Mediterranean. Atmospheric Chemistry and Physics, 2017, 17, 9547-9566.	1.9	35
26	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. Atmospheric Measurement Techniques, 2017, 10, 4023-4053.	1.2	74
27	Daytime formation of nitrous acid at a coastal remote site in Cyprus indicating a common ground source of atmospheric HONO and NO. Atmospheric Chemistry and Physics, 2016, 16, 14475-14493.	1.9	69
28	A comparison of HONO budgets for two measurement heights at a field station within the boreal forest in Finland. Atmospheric Chemistry and Physics, 2015, 15, 799-813.	1.9	52
29	<i>Editorial Note</i> "A novel Whole Air Sample Profiler (WASP) for the quantification of volatile organic compounds in the boundary layer" published in Atmos. Meas. Tech., 6, 2703–2712, 2013. Atmospheric Measurement Techniques, 2015, 8, 3405-3406.	1.2	0
30	Characterisation of an inlet pre-injector laser-induced fluorescence instrument for the measurement of atmospheric hydroxyl radicals. Atmospheric Measurement Techniques, 2014, 7, 3413-3430.	1.2	83
31	Direct observation of OH formation from stabilised Criegee intermediates. Physical Chemistry Chemical Physics, 2014, 16, 19941-19951.	1.3	108
32	The reactions of Criegee intermediates with alkenes, ozone, and carbonyl oxides. Physical Chemistry Chemical Physics, 2014, 16, 4039.	1.3	146
33	Meteorology during the DOMINO campaign and its connection with trace gases and aerosols. Atmospheric Chemistry and Physics, 2014, 14, 2325-2342.	1.9	11
34	Observation and modelling of HO <sub>x</sub> radicals in a boreal forest. Atmospheric Chemistry and Physics, 2014, 14, 8723-8747.	1.9	109
35	Influence of corona discharge on the ozone budget in the tropical free troposphere: a case study of deep convection during GABRIEL. Atmospheric Chemistry and Physics, 2014, 14, 8917-8931.	1.9	25
36	HO <sub>x</sub> measurements in the summertime upper troposphere over Europe: a comparison of observations to a box model and a 3-D model. Atmospheric Chemistry and Physics, 2013, 13, 10703-10720.	1.9	19

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37	Diel peroxy radicals in a semi-industrial coastal area: nighttime formation of free radicals. Atmospheric Chemistry and Physics, 2013, 13, 5731-5749.	1.9	10
38	Constraints on instantaneous ozone production rates and regimes during DOMINO derived using in-situ OH reactivity measurements. Atmospheric Chemistry and Physics, 2012, 12, 7269-7283.	1.9	81
39	Comparisons of observed and modeled OH and HO& t;sub>2& t;/sub> concentrations during the ambient measurement period of the HO& t;sub>x& t;/sub>Comp field campaign. Atmospheric Chemistry and Physics, 2012. 12. 2567-2585.	1.9	30
40	Case study of the diurnal variability of chemically active species with respect to boundary layer dynamics during DOMINO. Atmospheric Chemistry and Physics, 2012, 12, 5329-5341.	1.9	35
41	HO <sub>x</sub> budgets during HOxComp: A case study of HO <sub>x</sub> chemistry under NO <sub>x</sub> â€imited conditions. Journal of Geophysical Research, 2012, 117, .	3.3	38
42	The reaction of Criegee intermediates with NO, RO2, and SO2, and their fate in the atmosphere. Physical Chemistry Chemical Physics, 2012, 14, 14682.	1.3	297
43	Quantification of the unknown HONO daytime source and its relation to NO <sub>2</sub> . Atmospheric Chemistry and Physics, 2011, 11, 10433-10447.	1.9	155
44	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. Atmospheric Chemistry and Physics, 2011, 11, 10599-10618.	1.9	108
45	Distribution of hydrogen peroxide and formaldehyde over Central Europe during the HOOVER project. Atmospheric Chemistry and Physics, 2011, 11, 4391-4410.	1.9	55
46	Oxidation photochemistry in the Southern Atlantic boundary layer: unexpected deviations of photochemical steady state. Atmospheric Chemistry and Physics, 2011, 11, 8497-8513.	1.9	68
47	The atmospheric chemistry box model CAABA/MECCA-3.0. Geoscientific Model Development, 2011, 4, 373-380.	1.3	161
48	Hydroxyl radicals in the tropical troposphere over the Suriname rainforest: airborne measurements. Atmospheric Chemistry and Physics, 2010, 10, 3759-3773.	1.9	122
49	Technical Note: Formal blind intercomparison of HO <sub>2</sub> measurements in the atmosphere simulation chamber SAPHIR during the HOxComp campaign. Atmospheric Chemistry and Physics, 2010, 10, 12233-12250.	1.9	38
50	Hydroxyl radicals in the tropical troposphere over the Suriname rainforest: comparison of measurements with the box model MECCA. Atmospheric Chemistry and Physics, 2010, 10, 9705-9728.	1.9	110
51	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. Atmospheric Environment, 2010, 44, 4107-4115.	1.9	214
52	Technical Note: Formal blind intercomparison of OH measurements: results from the international campaign HOxComp. Atmospheric Chemistry and Physics, 2009, 9, 7923-7948.	1.9	98
53	Flux estimates of isoprene, methanol and acetone from airborne PTR-MS measurements over the tropical rainforest during the GABRIEL 2005 campaign. Atmospheric Chemistry and Physics, 2009, 9, 4207-4227.	1.9	64
54	Atmospheric oxidation capacity sustained by a tropical forest. Nature, 2008, 452, 737-740.	13.7	864

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55	Improved simulation of isoprene oxidation chemistry with the ECHAM5/MESSy chemistry-climate model: lessons from the GABRIEL airborne field campaign. Atmospheric Chemistry and Physics, 2008, 8, 4529-4546.	1.9	158
56	Surface and boundary layer exchanges of volatile organic compounds, nitrogen oxides and ozone during the GABRIEL campaign. Atmospheric Chemistry and Physics, 2008, 8, 6223-6243.	1.9	76
57	Chemistry, transport and dry deposition of trace gases in the boundary layer over the tropical Atlantic Ocean and the Guyanas during the GABRIEL field campaign. Atmospheric Chemistry and Physics, 2007, 7, 3933-3956.	1.9	47
58	A reevaluation of airborne HOxobservations from NASA field campaigns. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	72
59	A new method to simulate convection with strongly temperature- and pressure-dependent viscosity in a spherical shell: Applications to the Earth's mantle. Physics of the Earth and Planetary Interiors, 2006, 157, 223-249.	0.7	66
60	Variability of active chlorine in the lowermost Arctic stratosphere. Journal of Geophysical Research, 2005, 110, .	3.3	10
61	Missing OH Reactivity in a Forest: Evidence for Unknown Reactive Biogenic VOCs. Science, 2004, 304, 722-725.	6.0	431
62	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO2: Characteristics and Calibration. Journal of Atmospheric Chemistry, 2004, 47, 139-167.	1.4	182
63	Interference Testing for Atmospheric HOxMeasurements by Laser-induced Fluorescence. Journal of Atmospheric Chemistry, 2004, 47, 169-190.	1.4	59
64	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO2, and CH2O. Journal of Geophysical Research, 2004, $109$ , .	3.3	71
65	Measuring atmospheric naphthalene with laser-induced fluorescence. Atmospheric Chemistry and Physics, 2004, 4, 563-569.	1.9	27
66	OH and HO2 Chemistry in the urban atmosphere of New York City. Atmospheric Environment, 2003, 37, 3639-3651.	1.9	283
67	HOx concentrations and OH reactivity observations in New York City during PMTACS-NY2001. Atmospheric Environment, 2003, 37, 3627-3637.	1.9	175
68	In situ observations of CIO near the winter polar tropopause. Journal of Geophysical Research, 2003, 108, .	3.3	22
69	Direct observations of daytime NO3: Implications for urban boundary layer chemistry. Journal of Geophysical Research, 2003, 108, .	3.3	84
70	Upper limits of stratospheric IO and OIO inferred from center-to-limb-darkening-corrected balloon-borne solar occultation visible spectra: Implications for total gaseous iodine and stratospheric ozone. Journal of Geophysical Research, 2003, 108, .	3.3	54
71	Summary of measurement intercomparisons during TRACE-P. Journal of Geophysical Research, 2003, 108, .	3.3	51
72	Clouds and trace gas distributions during TRACE-P. Journal of Geophysical Research, 2003, 108, .	3.3	27

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73	OH and HO2concentrations, sources, and loss rates during the Southern Oxidants Study in Nashville, Tennessee, summer 1999. Journal of Geophysical Research, 2003, 108, .	3.3	174
74	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. Journal of Geophysical Research, 2003, 108, .	3.3	44
75	Direct measurements of urban OH reactivity during Nashville SOS in summer 1999. Journal of Environmental Monitoring, 2003, 5, 68-74.	2.1	106
76	Ozone production rates as a function of NOxabundances and HOxproduction rates in the Nashville urban plume. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	207
77	Ground-based measurements of peroxycarboxylic nitric anhydrides (PANs) during the 1999 Southern Oxidants Study Nashville Intensive. Journal of Geophysical Research, 2002, 107, ACH 1-1-ACH 1-10.	3.3	68
78	Nighttime isoprene trends at an urban forested site during the 1999 Southern Oxidant Study. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	43
79	Comparison of measured and modeled stratospheric UV/Visible actinic fluxes at large solar zenith angles. Geophysical Research Letters, 2001, 28, 1179-1182.	1.5	12
80	Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. Journal of Geophysical Research, 2001, 106, 8035-8046.	3.3	93
81	Application of a sequential reaction model to PANs and aldehyde measurements in two urban areas. Geophysical Research Letters, 2001, 28, 4583-4586.	1.5	45
82	First atmospheric profile measurements of UV/visible O4absorption band intensities: Implications for the spectroscopy, and the formation enthalpy of the O2-O2dimer. Geophysical Research Letters, 2001, 28, 4595-4598.	1.5	41
83	Differential optical absorption spectroscopy instrument for stratospheric balloonborne trace-gas studies. Applied Optics, 2000, 39, 2377.	2.1	46
84	Comparison of measured and modeled stratospheric BrO: Implications for the total amount of stratospheric bromine. Geophysical Research Letters, 2000, 27, 3695-3698.	1.5	42
85	First profile measurements of tropospheric BrO. Geophysical Research Letters, 2000, 27, 2921-2924.	1.5	95
86	Intercomparison of measured and modelled BrO slant column amounts for the Arctic winter and spring 1994/95. Geophysical Research Letters, 1999, 26, 1861-1864.	1.5	25
87	Stratospheric BrO profiles measured at different latitudes and seasons: Instrument description, spectral analysis and profile retrieval. Geophysical Research Letters, 1998, 25, 3847-3850.	1.5	29
88	Stratospheric BrO profiles measured at different latitudes and seasons: Atmospheric observations. Geophysical Research Letters, 1998, 25, 3843-3846.	1.5	70
89	3-D Convection With Variable Viscosity. Geophysical Journal International, 1991, 104, 213-220.	1.0	159
90	A benchmark comparison for mantle convection codes. Geophysical Journal International, 1989, 98, 23-38.	1.0	251