# Jens Hjorth

## List of Publications by Year in descending order



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|---|---|---|---|
| 76 papers | 5,452 citations | 81743 39 h-index | 85405 71 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 4964 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350. | 1.9 | 714 |
| 2 | The nitrate radical: Physics, chemistry, and the atmosphere. Atmospheric Environment Part A General Topics, 1991, 25, 1-203. | 1.3 | 646 |
| 3 | Dimethyl Sulfide and Dimethyl Sulfoxide and Their Oxidation in the Atmosphere. Chemical Reviews, 2006, 106, 940-975. | 23.0 | 412 |
| 4 | Carboxylic Acids in Secondary Aerosols from Oxidation of Cyclic Monoterpenes by Ozone. Environmental Science & Technology, 2000, 34, 1001-1010. | 4.6 | 297 |
| 5 | Gas-Phase OH Oxidation of Monoterpenes: Gaseous and Particulate Products. Journal of Atmospheric Chemistry, 2001, 38, 231-276. | 1.4 | 220 |
| 6 | cis-pinic acid, a possible precursor for organic aerosol formation from ozonolysis of Î±-pinene. Atmospheric Environment, 1998, 32, 1657-1661. | 1.9 | 163 |
| 7 | Ozonolysis at vegetation surfaces. Atmospheric Environment, 1998, 32, 1893-1902. | 1.9 | 162 |
| 8 | Measuring atmospheric composition change. Atmospheric Environment, 2009, 43, 5351-5414. | 1.9 | 160 |
| 9 | Hygroscopic properties of aerosol formed by oxidation of limonene, Î±-pinene, and Î²-pinene. Journal of Geophysical Research, 1999, 104, 3569-3579. | 3.3 | 151 |
| 10 | Kinetic study of gas-phase reactions of pinonaldehyde and structurally related compounds. International Journal of Chemical Kinetics, 1997, 29, 527-533. | 1.0 | 102 |
| 11 | Measurements of acetone and other gas phase product yields from the OH-initiated oxidation of terpenes by proton-transfer-reaction mass spectrometry (PTR-MS). Atmospheric Environment, 2001, 35, 6181-6191. | 1.9 | 100 |
| 12 | Formation of HNO2 on aerosol surfaces during foggy periods in the presence of NO and NO2. Atmospheric Environment Part A General Topics, 1992, 26, 211-217. | 1.3 | 95 |
| 13 | Gas-Phase Reaction of Phenol with NO3. Environmental Science & Technology, 2001, 35, 1791-1797. | 4.6 | 94 |
| 14 | Atmospheric degradation and global warming potentials of three perfluoroalkenes. Atmospheric Environment, 2001, 35, 4113-4123. | 1.9 | 94 |
| 15 | Measurements of air pollution emission factors for marine transportation in SECA. Atmospheric Measurement Techniques, 2013, 6, 1777-1791. | 1.2 | 89 |
| 16 | Observation of DMSO and CH3S(O)OH from the gas phase reaction between DMS and OH. Journal of Atmospheric Chemistry, 1996, 24, 299. | 1.4 | 85 |
| 17 | Impact of a European directive on ship emissions on air quality in Mediterranean harbours. Atmospheric Environment, 2012, 61, 661-669. | 1.9 | 83 |
| 18 | Products and mechanisms of the reactions of the nitrate radical (NO3) with isoprene, 1,3-butadiene and 2,3-dimethyl-1,3-butadiene in air. Atmospheric Environment Part A General Topics, 1992, 26, 2771-2783. | 1.3 | 79 |

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| 19 | A DOAS study on the origin of nitrous acid at urban and non-urban sites. Atmospheric Environment, 1996, 30, 175-180. | 1.9 | 79 |
| 20 | Products and mechanisms of the gas phase reactions of NO3 with CH3SCH3, CD3SCD3, CH3SH and CH3SSCH3. Journal of Atmospheric Chemistry, 1992, 14, 95-108. | 1.4 | 72 |
| 21 | Unsaturated dicarbonyl products from the OH-initiated photo-oxidation of furan, 2-methylfuran and 3-methylfuran. Atmospheric Environment, 2009, 43, 1603-1612. | 1.9 | 67 |
| 22 | Title is missing!. Journal of Atmospheric Chemistry, 1999, 32, 327-356. | 1.4 | 63 |
| 23 | Field test of available methods to measure remotely SO<sub>x</sub> and NO<sub>x</sub> emissions from ships. Atmospheric Measurement Techniques, 2014, 7, 2597-2613. | 1.2 | 63 |
| 24 | Atmospheric gas-phase reactions of dimethylsulphoxide and dimethylsulphone with OH and NO3 radicals, Cl atoms and ozone. Atmospheric Environment, 2000, 34, 1543-1551. | 1.9 | 61 |
| 25 | Experimental Confirmation of the Dicarbonyl Route in the Photo-oxidation of Toluene and Benzene. Environmental Science & Technology, 2007, 41, 8362-8369. | 4.6 | 61 |
| 26 | Ozone over the Western Mediterranean Sea â€“ results from two years of shipborne measurements. Atmospheric Chemistry and Physics, 2011, 11, 675-688. | 1.9 | 60 |
| 27 | Uncertainty and sensitivity analyses of OH-initiated dimethyl sulphide (DMS) oxidation kinetics. Journal of Atmospheric Chemistry, 1995, 21, 187-221. | 1.4 | 59 |
| 28 | What can we learn about ship emission inventories from measurements of air pollutants over the Mediterranean Sea?. Atmospheric Chemistry and Physics, 2009, 9, 6815-6831. | 1.9 | 58 |
| 29 | Sensitivity of photooxidant production in the Milan Basin: An overview of results from a EUROTRAC-2 Limitation of Oxidant Production field experiment. Journal of Geophysical Research, 2002, 107, LOP 1-1. | 3.3 | 57 |
| 30 | PM10 source apportionment applying PMF and chemical tracer analysis to ship-borne measurements in the Western Mediterranean. Atmospheric Environment, 2016, 125, 140-151. | 1.9 | 57 |
| 31 | Products and mechanisms of the gas-phase reactions between nitrate radical and a series of alkenes. The Journal of Physical Chemistry, 1990, 94, 7494-7500. | 2.9 | 56 |
| 32 | Reactions of Cl Atoms with Selected VOCs: Kinetics, Products and Mechanisms. Journal of Atmospheric Chemistry, 1998, 31, 247-267. | 1.4 | 56 |
| 33 | Products and mechanism of the reaction between NO3 and dimethylsulphide in air. Atmospheric Environment Part A General Topics, 1991, 25, 1897-1904. | 1.3 | 53 |
| 34 | Determination of the rate constants for the gas-phase reactions of methyl butenol with OH radicals, ozone, NO3 radicals, and Cl atoms. International Journal of Chemical Kinetics, 1998, 30, 589-594. | 1.0 | 51 |
| 35 | A Fourier transform infrared study of the rate constant of the homogeneous gas-phase reaction nitrogen oxide (N2O5) + water and determination of absolute infrared band intensities of N2O5 and nitric acid. The Journal of Physical Chemistry, 1987, 91, 1565-1568. | 2.9 | 49 |
| 36 | Gas-Phase Reactions of Nopinone, 3-Isopropenyl-6-oxo-heptanal, and 5-Methyl-5-vinyltetrahydrofuran-2-ol with OH, NO3, and Ozone. Environmental Science & Technology, 1999, 33, 453-460. | 4.6 | 49 |

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|---|---|---|---|
| 37 | Mechanistic studies of the atmospheric oxidation of methyl butenol by OH radicals, ozone and NO3 radicals. Atmospheric Environment, 1998, 32, 3547-3556. | 1.9 | 47 |
| 38 | Epoxide formation in the reactions of the nitrate radical with 2,3-dimethyl-2-butene, cis- and trans-2-butene and isoprene. Atmospheric Environment, 1994, 28, 1583-1592. | 1.9 | 45 |
| 39 | Atmospheric lifetimes, infrared spectra and degradation products of a series of hydrofluoroethers. Atmospheric Environment, 1998, 32, 3767-3773. | 1.9 | 40 |
| 40 | An investigation on the origin of regional springtime ozone episodes in the western Mediterranean. Atmospheric Chemistry and Physics, 2017, 17, 3905-3928. | 1.9 | 38 |
| 41 | Peroxynitrate formation during the night-time oxidation of dimethylsulfide: Its role as a reservoir species for aerosol formation. Journal of Atmospheric Chemistry, 1994, 18, 211-237. | 1.4 | 37 |
| 42 | NOxversus VOC limitation of O3production in the Po valley: Local and integrated view based on observations. Journal of Geophysical Research, 2002, 107, LOP 4-1. | 3.3 | 35 |
| 43 | Atmospheric Chemistry of CH3O(CF2CF2O)nCH3(n= 1â^'3):Â Kinetics and Mechanism of Oxidation Initiated by Cl Atoms and OH Radicals, IR Spectra, and Global Warming Potentials. Journal of Physical Chemistry A, 2004, 108, 1964-1972. | 1.1 | 35 |
| 44 | REMPI-MS and FTIR Study of NO2 and Oxirane Formation in the Reactions of Unsaturated Hydrocarbons with NO3 Radicals. The Journal of Physical Chemistry, 1994, 98, 10492-10496. | 2.9 | 32 |
| 45 | Source apportionment of PM10 in the Western Mediterranean based on observations from a cruise ship. Atmospheric Environment, 2014, 98, 510-518. | 1.9 | 32 |
| 46 | A spectroscopic study of the equilibrium NO2 + NO3 + M 2 N2O5 + M and the kinetics of the O3/N2O5/NO3/NO2/ air system. International Journal of Chemical Kinetics, 1992, 24, 51-65. | 1.0 | 29 |
| 47 | Kinetics and products formation of the gas-phase reactions of tetrafluoroethylene with OH and NO3 radicals and ozone. Chemical Physics Letters, 1999, 309, 364-368. | 1.2 | 27 |
| 48 | OH-initiated oxidation of DMS/DMSO: reaction products at high NOx levels. Environmental Pollution, 2004, 127, 403-410. | 3.7 | 27 |
| 49 | Atmospheric Chemistry of C3â^'C6Cycloalkanecarbaldehydes. Journal of Physical Chemistry A, 2005, 109, 5104-5118. | 1.1 | 27 |
| 50 | Reaction between nitrate radical and formaldehyde in air: a determination of the rate constant at 295 .+-. 2 K. The Journal of Physical Chemistry, 1988, 92, 2669-2672. | 2.9 | 18 |
| 51 | Title is missing!. Journal of Atmospheric Chemistry, 2002, 43, 135-150. | 1.4 | 17 |
| 52 | FTIR studies of reactions between the nitrate radical and chlorinated butenes. The Journal of Physical Chemistry, 1990, 94, 8036-8040. | 2.9 | 16 |
| 53 | Comparison between the gas-phase and the solution reaction of the nitrate radical and methylarenes. Environmental Science & Technology, 1993, 27, 1659-1664. | 4.6 | 13 |
| 54 | Reactions of the nitrate radical with a series of reduced organic sulphur compounds in air. International Journal of Chemical Kinetics, 1992, 24, 839-850. | 1.0 | 12 |

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|---|---|---|---|
| 55 | Using FÃ¶hn conditions to characterize urban and regional sources of particles. Atmospheric Research, 2008, 90, 159-169. | 1.8 | 12 |
| 56 | Determination of the nitrogen trioxide + nitrogen dioxide .fwdarw. nitric oxide + oxygen + nitrogen dioxide rate constant by infrared diode laser and Fourier transform spectroscopy. The Journal of Physical Chemistry, 1989, 93, 5458-5461. | 2.9 | 11 |
| 57 | Nighttime Tropospheric Chemistry:Â Kinetics and Product Studies in the Reaction of 4-Alkyl- and 4-Alkoxytoluenes with NO3in Gas Phase. Environmental Science & Technology, 1999, 33, 461-468. | 4.6 | 11 |
| 58 | A study of the influence of tropospheric subsidence on spring and summer surface ozone concentrations at the JRC Ispra station in northern Italy. Atmospheric Chemistry and Physics, 2020, 20, 1861-1885. | 1.9 | 11 |
| 59 | Eddy-covariance flux measurements in an Italian deciduous forest using PTR-ToF-MS, PTR-QMS and FIS. International Journal of Environmental Analytical Chemistry, 2018, 98, 758-788. | 1.8 | 9 |
| 60 | Reaction of the NO3 radical with CO: Determination of an upper limit for the rate constant using FTIR spectroscopy. International Journal of Chemical Kinetics, 1986, 18, 819-827. | 1.0 | 6 |
| 61 | Long path field measurements of aerosol parameters and trace gas concentrations; formation of nitrous acid during foggy periods. Journal of Aerosol Science, 1991, 22, S411-S414. | 1.8 | 6 |
| 62 | Products and mechanism of the gas phase reaction between nitrate radical and arenes. Fresenius' Journal of Analytical Chemistry, 1991, 339, 673-675. | 1.5 | 6 |
| 63 | The regiochemistry of the NO3-promoted gas phase nitration of toluene and phenol with NO2. Journal of Physical Organic Chemistry, 2006, 19, 570-578. | 0.9 | 5 |
| 64 | FTIR studies of reactions between the nitrate radical and haloethenes. Journal of Atmospheric Chemistry, 1995, 21, 223-250. | 1.4 | 4 |
| 65 | Simulated air quality and pollutant budgets over Europe in 2008. Science of the Total Environment, 2014, 470-471, 270-281. | 3.9 | 4 |
| 66 | Laboratory and Modelling Studies of the Formation of a Stable Intermediate in the Night-Time Oxidation of DMS. , 1993, , 261-272. | | 4 |
| 67 | Comment on â€œA DOAS study on the origin of nitrous acid at urban and non-urban sitesâ€•by G. Lammel. Atmospheric Environment, 1996, 30, 4103. | 1.9 | 2 |
| 68 | Products and Mechanism of the Gas Phase Reaction between the Nitrate Radical and Arenes. , 1990, , 400-407. | | 2 |
| 69 | Aerosol formation and reaction pathways of atmospheric oxidation of dimethylsulfide. Annali Di Chimica, 2001, 91, 415-24. | 0.6 | 2 |
| 70 | On the use of TeflonÂ®bags for photochemical experiments. Chemosphere, 1987, 16, 1405-1417. | 4.2 | 1 |
| 71 | Nighttime Tropospheric Chemistry: The Reactivity of Alkyl- and Alkoxytoluenes with NO3 in Gas Phase. , 1997, , 409-422. | | 1 |
| 72 | INVESTIGATION OF O<sub>3</sub> ENTRAINMENT AT A NORTH-ITALIAN MONITORING STATION DURING THE PERIOD 2006â€“2015. WIT Transactions on Ecology and the Environment, 2017, , . | 0.0 | 1 |

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|---|---|---|---|
| 73 | A TDL- and FT-IR Study of the Reaction NO3 + HO2 â† ' OH + N02 + O2. , 1992, , 329-341. | | 1 |
| 74 | Response to Comment on â€œNighttime Tropospheric Chemistry:Â Kinetics and Product Studies in the Reaction of 4-Alkyl- and 4-Alkoxytoluenes with NO3in Gas Phaseâ€• Environmental Science & Technology, 2000, 34, 2876-2877. | 4.6 | 0 |
| 75 | Laboratory studies for understanding atmospheric chemical processes. , 1996, , 41-56. | | 0 |
| 76 | Gas-Phase Reactions of Interest in Night-time Tropospheric Chemistry. , 1997, , 113-119. | | 0 |