# Joost A De Gouw

List of Publications by Year
in descending order



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|---|---|---|---|
| 352 papers | 33,084 citations | 2911 95 h-index | 7703 152 g-index |
| 529 all docs | 529 docs citations | 529 times ranked | 17829 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Measurements of volatile organic compounds in the earth's atmosphere using protonâ€transferâ€reaction mass spectrometry. Mass Spectrometry Reviews, 2007, 26, 223-257. | 6.1 | 1,034 |
| 2 | Volatile chemical products emerging as largest petrochemical source of urban organic emissions. Science, 2018, 359, 760-764. | 20.9 | 780 |
| 3 | Budget of organic carbon in a polluted atmosphere: Results from the New England Air Quality Study in 2002. Journal of Geophysical Research, 2005, 110, . | 3.3 | 700 |
| 4 | A study of secondary organic aerosol formation in the anthropogenicâ€influenced southeastern United States. Journal of Geophysical Research, 2007, 112, . | 3.3 | 522 |
| 5 | Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 37-42. | 7.6 | 511 |
| 6 | Measurement of the mixing state, mass, and optical size of individual black carbon particles in urban and biomass burning emissions. Geophysical Research Letters, 2008, 35, . | 4.0 | 399 |
| 7 | Organic Aerosols in the Earthâ€™s Atmosphere. Environmental Science & Technology, 2009, 43, 7614-7618. | 10.5 | 380 |
| 8 | Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. Environmental Science & Technology, 2017, 51, 1074-1093. | 10.5 | 372 |
| 9 | Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. Atmospheric Chemistry and Physics, 2011, 11, 7669-7686. | 5.0 | 335 |
| 10 | Source Signature of Volatile Organic Compounds from Oil and Natural Gas Operations in Northeastern Colorado. Environmental Science & Technology, 2013, 47, 1297-1305. | 10.5 | 318 |
| 11 | Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. Chemical Reviews, 2017, 117, 13187-13229. | 51.4 | 313 |
| 12 | Sensitivity and specificity of atmospheric trace gas detection by proton-transfer-reaction mass spectrometry. International Journal of Mass Spectrometry, 2003, 223-224, 365-382. | 1.6 | 296 |
| 13 | Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. Geophysical Research Letters, 2009, 36, . | 4.0 | 292 |
| 14 | Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. Atmospheric Chemistry and Physics, 2010, 10, 3405-3425. | 5.0 | 283 |
| 15 | Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521. | 7.6 | 281 |
| 16 | Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. Atmospheric Chemistry and Physics, 2013, 13, 89-116. | 5.0 | 275 |
| 17 | Importance of secondary sources in the atmospheric budgets of formic and acetic acids. Atmospheric Chemistry and Physics, 2011, 11, 1989-2013. | 5.0 | 273 |
| 18 | Global budget of methanol: Constraints from atmospheric observations. Journal of Geophysical Research, 2005, 110, . | 3.3 | 269 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20246-20253. | 7.6 | 263 |
| 20 | Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453. | 5.0 | 262 |
| 21 | Determination of urban volatile organic compound emission ratios and comparison with an emissions database. Journal of Geophysical Research, 2007, 112, . | 3.3 | 258 |
| 22 | Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. Atmospheric Chemistry and Physics, 2018, 18, 3299-3319. | 5.0 | 254 |
| 23 | Validation of Atmospheric VOC Measurements by Proton-Transfer- Reaction Mass Spectrometry Using a Gas-Chromatographic Preseparation Method. Environmental Science & Technology, 2003, 37, 2494-2501. | 10.5 | 252 |
| 24 | Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9233-9257. | 3.3 | 243 |
| 25 | Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. Journal of Geophysical Research, 2009, 114, . | 3.3 | 238 |
| 26 | Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. Environmental Science & Technology, 2014, 48, 13743-13750. | 10.5 | 232 |
| 27 | Secondary organic aerosol formation and primary organic aerosol oxidation from biomass-burning smoke in a flow reactor during FLAME-3. Atmospheric Chemistry and Physics, 2013, 13, 11551-11571. | 5.0 | 229 |
| 28 | Reduced emissions of <scp>CO<sub>2</sub></scp>, <scp>NOx</scp>, and <scp>SO<sub>2</sub></scp> from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. Earth's Future, 2014, 2, 75-82. | 6.2 | 229 |
| 29 | Laboratory measurements of trace gas emissions from biomass burning of fuel types from the southeastern and southwestern United States. Atmospheric Chemistry and Physics, 2010, 10, 11115-11130. | 5.0 | 227 |
| 30 | Validation of proton transfer reaction-mass spectrometry (PTR-MS) measurements of gas-phase organic compounds in the atmosphere during the New England Air Quality Study (NEAQS) in 2002. Journal of Geophysical Research, 2003, 108, . | 3.3 | 225 |
| 31 | Volatile organic compounds (VOCs) in urban air: How chemistry affects the interpretation of positive matrix factorization (PMF) analysis. Journal of Geophysical Research, 2012, 117, . | 3.3 | 225 |
| 32 | Emission ratios of anthropogenic volatile organic compounds in northern midâ€latitude megacities: Observations versus emission inventories in Los Angeles and Paris. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2041-2057. | 3.3 | 218 |
| 33 | A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304. | 5.0 | 211 |
| 34 | Proton-Transfer-Reaction Mass Spectrometry as a New Tool for Real Time Analysis of Root-Secreted Volatile Organic Compounds in Arabidopsis. Plant Physiology, 2004, 135, 47-58. | 5.1 | 209 |
| 35 | Contribution of isoprene-derived organosulfates to free tropospheric aerosol mass. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21360-21365. | 7.6 | 206 |
| 36 | The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866. | 3.3 | 204 |

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| 37 | A volatility basis set model for summertime secondary organic aerosols over the eastern United States in 2006. Journal of Geophysical Research, 2012, 117, . | 3.3 | 201 |
| 38 | Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2038-2043. | 7.6 | 199 |
| 39 | Evaluation of a New Reagent-Ion Source and Focusing Ionâ€“Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. Analytical Chemistry, 2018, 90, 12011-12018. | 6.8 | 198 |
| 40 | Development of negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS) for the measurement of gas-phase organic acids in the atmosphere. International Journal of Mass Spectrometry, 2008, 274, 48-55. | 1.6 | 195 |
| 41 | Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. Journal of Geophysical Research, 2012, 117, . | 3.3 | 192 |
| 42 | Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. Geophysical Research Letters, 2012, 39, . | 4.0 | 191 |
| 43 | Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833. | 5.0 | 189 |
| 44 | Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. Atmospheric Chemistry and Physics, 2015, 15, 13915-13938. | 5.0 | 186 |
| 45 | Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. Physical Chemistry Chemical Physics, 2016, 18, 10241-10254. | 2.9 | 185 |
| 46 | Emission sources and ocean uptake of acetonitrile (CH3CN) in the atmosphere. Journal of Geophysical Research, 2003, 108, . | 3.3 | 182 |
| 47 | Airborne measurements of carbonaceous aerosol soluble in water over northeastern United States: Method development and an investigation into water-soluble organic carbon sources. Journal of Geophysical Research, 2006, 111, . | 3.3 | 182 |
| 48 | Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. Environmental Science & Technology, 2012, 46, 10463-10470. | 10.5 | 179 |
| 49 | In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007: implications for gas- and particle-phase chemistry. Atmospheric Chemistry and Physics, 2009, 9, 5505-5518. | 5.0 | 176 |
| 50 | Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. Journal of Geophysical Research, 2008, 113, . | 3.3 | 174 |
| 51 | An important contribution to springtime Arctic aerosol from biomass burning in Russia. Geophysical Research Letters, 2010, 37, . | 4.0 | 174 |
| 52 | Cblb is a major susceptibility gene for rat type 1 diabetes mellitus. Nature Genetics, 2002, 31, 391-394. | 20.4 | 173 |
| 53 | A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. Journal of Geophysical Research, 2004, 109, . | 3.3 | 171 |
| 54 | New constraints on terrestrial and oceanic sources of atmospheric methanol. Atmospheric Chemistry and Physics, 2008, 8, 6887-6905. | 5.0 | 171 |

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| 55 | Quantifying sources of methane using light alkanes in the Los Angeles basin, California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4974-4990. | 3.3 | 170 |
| 56 | Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2119-2139. | 3.3 | 170 |
| 57 | Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8966-8971. | 7.6 | 169 |
| 58 | Measurements of gasâ€phase inorganic and organic acids from biomass fires by negativeâ€ion protonâ€transfer chemicalâ€ionization mass spectrometry. Journal of Geophysical Research, 2010, 115, . | 3.3 | 167 |
| 59 | Correlation of secondary organic aerosol with odd oxygen in Mexico City. Geophysical Research Letters, 2008, 35, . | 4.0 | 166 |
| 60 | Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 165 |
| 61 | Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. Atmospheric Chemistry and Physics, 2012, 12, 3273-3288. | 5.0 | 160 |
| 62 | Measurement of HONO, HNCO, and other inorganic acids by negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS): application to biomass burning emissions. Atmospheric Measurement Techniques, 2010, 3, 981-990. | 3.1 | 156 |
| 63 | Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. Atmospheric Chemistry and Physics, 2015, 15, 411-429. | 5.0 | 155 |
| 64 | Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. Atmospheric Chemistry and Physics, 2015, 15, 5773-5801. | 5.0 | 147 |
| 65 | Comparison of daytime and nighttime oxidation of biogenic and anthropogenic VOCs along the New England coast in summer during New England Air Quality Study 2002. Journal of Geophysical Research, 2004, 109, . | 3.3 | 146 |
| 66 | Effects of mixing on evolution of hydrocarbon ratios in the troposphere. Journal of Geophysical Research, 2007, 112, . | 3.3 | 143 |
| 67 | Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. Scientific Reports, 2017, 7, 4926. | 3.4 | 143 |
| 68 | Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. Atmospheric Chemistry and Physics, 2016, 16, 7411-7433. | 5.0 | 142 |
| 69 | Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. Journal of Physical Chemistry A, 2015, 119, 4418-4432. | 2.6 | 140 |
| 70 | Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols. Atmospheric Chemistry and Physics, 2009, 9, 6191-6215. | 5.0 | 139 |
| 71 | Formaldehyde production from isoprene oxidation acrossÂNO<sub><i>x</i></sub>Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610. | 5.0 | 138 |
| 72 | Nighttime removal of NOxin the summer marine boundary layer. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 134 |

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| 73 | Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. Atmospheric Chemistry and Physics, 2010, 10, 2353-2375. | 5.0 | 134 |
| 74 | Emissions of volatile organic compounds from cut grass and clover are enhanced during the drying process. Geophysical Research Letters, 1999, 26, 811-814. | 4.0 | 133 |
| 75 | Biomass-burning particle measurements: Characteristic composition and chemical processing. Journal of Geophysical Research, 2004, 109, . | 3.3 | 132 |
| 76 | Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. Atmospheric Chemistry and Physics, 2009, 9, 3027-3042. | 5.0 | 132 |
| 77 | Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. Atmospheric Chemistry and Physics, 2011, 11, 2399-2421. | 5.0 | 131 |
| 78 | Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. Environmental Science & Technology, 2012, 46, 10965-10973. | 10.5 | 129 |
| 79 | Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. Environmental Science & Technology, 2012, 46, 9437-9446. | 10.5 | 129 |
| 80 | Organic nitrate aerosol formation via NO<sub>3</sub> + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392. | 5.0 | 129 |
| 81 | Impacts of sources and aging on submicrometer aerosol properties in the marine boundary layer across the Gulf of Maine. Journal of Geophysical Research, 2006, 111, . | 3.3 | 127 |
| 82 | Comparison of air pollutant emissions among mega-cities. Atmospheric Environment, 2009, 43, 6435-6441. | 4.2 | 126 |
| 83 | Identification and Quantification of 4-Nitrocatechol Formed from OH and NO<sub>3</sub> Radical-Initiated Reactions of Catechol in Air in the Presence of NO<sub>x</sub>: Implications for Secondary Organic Aerosol Formation from Biomass Burning. Environmental Science & Technology, 2018, 52, 1981-1989. | 10.5 | 126 |
| 84 | Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194. | 5.0 | 124 |
| 85 | Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTTâ€11. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,155. | 3.3 | 116 |
| 86 | Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. Atmospheric Chemistry and Physics, 2009, 9, 3425-3442. | 5.0 | 115 |
| 87 | Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413. | 10.5 | 114 |
| 88 | Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. International Journal of Mass Spectrometry, 2017, 421, 71-94. | 1.6 | 112 |
| 89 | Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. Atmospheric Chemistry and Physics, 2018, 18, 17769-17800. | 5.0 | 112 |
| 90 | Concentrations and sources of organic carbon aerosols in the free troposphere over North America. Journal of Geophysical Research, 2006, 111, . | 3.3 | 111 |

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| 91 | Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. Atmospheric Chemistry and Physics, 2018, 18, 2929-2948. | 5.0 | 111 |
| 92 | High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. Atmospheric Chemistry and Physics, 2018, 18, 9263-9281. | 5.0 | 111 |
| 93 | Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. Atmospheric Chemistry and Physics, 2009, 9, 7623-7641. | 5.0 | 109 |
| 94 | Measurements of volatile organic compounds during the 2006 TexAQS/GoMACCS campaign: Industrial influences, regional characteristics, and diurnal dependencies of the OH reactivity. Journal of Geophysical Research, 2009, 114, . | 3.3 | 107 |
| 95 | Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 107 |
| 96 | Disjunct eddy covariance measurements of oxygenated volatile organic compounds fluxes from an alfalfa field before and after cutting. Journal of Geophysical Research, 2002, 107, ACH 6-1. | 3.3 | 105 |
| 97 | Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. Atmospheric Chemistry and Physics, 2014, 14, 10439-10464. | 5.0 | 105 |
| 98 | Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. Atmospheric Chemistry and Physics, 2010, 10, 10223-10236. | 5.0 | 104 |
| 99 | Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. Geophysical Research Letters, 2014, 41, 8645-8651. | 4.0 | 104 |
| 100 | Effects of gasâ€“wall partitioning in Teflon tubing and instrumentation on time-resolved measurements of gas-phase organic compounds. Atmospheric Measurement Techniques, 2017, 10, 4687-4696. | 3.1 | 103 |
| 101 | Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. Atmospheric Chemistry and Physics, 2014, 14, 10977-10988. | 5.0 | 102 |
| 102 | Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. Atmospheric Chemistry and Physics, 2013, 13, 8955-8971. | 5.0 | 101 |
| 103 | The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. Journal of Geophysical Research, 2011, 116, . | 3.3 | 100 |
| 104 | Airborne and groundâ€based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. Journal of Geophysical Research, 2012, 117, . | 3.3 | 100 |
| 105 | Contribution of human-related sources to indoor volatile organic compounds in a university classroom. Indoor Air, 2016, 26, 925-938. | 4.4 | 100 |
| 106 | Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025. | 5.0 | 96 |
| 107 | OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. Atmospheric Chemistry and Physics, 2019, 19, 14875-14899. | 5.0 | 96 |
| 108 | Proton-Transfer Chemical-Ionization Mass Spectrometry Allows Real-Time Analysis of Volatile Organic Compounds Released from Cutting and Drying of Crops. Environmental Science & Technology, 2000, 34, 2640-2648. | 10.5 | 94 |

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| 109 | Disjunct eddy covariance technique for trace gas flux measurements. Geophysical Research Letters, 2001, 28, 3139-3142. | 4.0 | 94 |
| 110 | Source Identification of Reactive Hydrocarbons and Oxygenated VOCs in the Summertime in Beijing. Environmental Science & Technology, 2009, 43, 75-81. | 10.5 | 94 |
| 111 | Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. Journal of Geophysical Research, 2010, 115, . | 3.3 | 94 |
| 112 | Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. Environmental Science & Technology, 2019, 53, 4794-4802. | 10.5 | 93 |
| 113 | Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 91 |
| 114 | Measurements of hydroxyl and hydroperoxy radicals during CalNexâ€ŁA: Model comparisons and radical budgets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4211-4232. | 3.3 | 91 |
| 115 | Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8712-8729. | 3.3 | 91 |
| 116 | Reactive uptake of ozone by liquid organic compounds. Geophysical Research Letters, 1998, 25, 931-934. | 4.0 | 89 |
| 117 | Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. Journal of Geophysical Research, 2004, 109, . | 3.3 | 89 |
| 118 | Particle characteristics following cloud-modified transport from Asia to North America. Journal of Geophysical Research, 2004, 109, . | 3.3 | 88 |
| 119 | Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. Atmospheric Chemistry and Physics, 2016, 16, 2139-2153. | 5.0 | 88 |
| 120 | Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. Environmental Science & Technology, 2020, 54, 8568-8579. | 10.5 | 88 |
| 121 | The impact of monsoon outflow from India and Southeast Asia in the upper troposphere over the eastern Mediterranean. Atmospheric Chemistry and Physics, 2003, 3, 1589-1608. | 5.0 | 87 |
| 122 | Evaluations of NO<sub>x</sub> and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. Atmospheric Chemistry and Physics, 2011, 11, 11361-11386. | 5.0 | 87 |
| 123 | Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation. Atmospheric Chemistry and Physics, 2014, 14, 2383-2397. | 5.0 | 87 |
| 124 | An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO<sub>x</sub> and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979. | 4.0 | 87 |
| 125 | Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. Atmospheric Chemistry and Physics, 2003, 3, 739-745. | 5.0 | 86 |
| 126 | Development of proton-transfer ion trap-mass spectrometry: on-line detection and identification of volatile organic compounds in air. Journal of the American Society for Mass Spectrometry, 2005, 16, 1316-1324. | 3.1 | 85 |

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| 127 | The Chemistry of Atmosphere-Forest Exchange (CAFE) Model â€“ Part 2: Application to BEARPEX-2007 observations. Atmospheric Chemistry and Physics, 2011, 11, 1269-1294. | 5.0 | 85 |
| 128 | Emissions of nitrogenâ€containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. Geophysical Research Letters, 2016, 43, 9903-9912. | 4.0 | 85 |
| 129 | Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580. | 5.0 | 85 |
| 130 | Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, . | 3.3 | 83 |
| 131 | Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. Atmospheric Measurement Techniques, 2011, 4, 2345-2358. | 3.1 | 83 |
| 132 | Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D<sub>5</sub>) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618. | 10.5 | 83 |
| 133 | Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. Atmospheric Chemistry and Physics, 2011, 11, 10219-10241. | 5.0 | 82 |
| 134 | Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6641-6646. | 7.6 | 82 |
| 135 | Daily Satellite Observations of Methane from Oil and Gas Production Regions in the United States. Scientific Reports, 2020, 10, 1379. | 3.4 | 82 |
| 136 | Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. Journal of Geophysical Research, 2004, 109, . | 3.3 | 81 |
| 137 | A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H<sub>3</sub>O<sup>+</sup> ToF-CIMS) for measurements of volatile organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2016, 9, 2735-2752. | 3.1 | 81 |
| 138 | VOC species and emission inventory from vehicles and their SOA formation potentials estimation in Shanghai, China. Atmospheric Chemistry and Physics, 2015, 15, 11081-11096. | 5.0 | 80 |
| 139 | Airborne measurements of HCHO and HCOOH during the New England Air Quality Study 2004 using a pulsed quantum cascade laser spectrometer. Journal of Geophysical Research, 2007, 112, . | 3.3 | 79 |
| 140 | Air quality implications of theDeepwater Horizonoil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20280-20285. | 7.6 | 79 |
| 141 | Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO<sub><i>x</i></sub>. Atmospheric Chemistry and Physics, 2015, 15, 11257-11272. | 5.0 | 79 |
| 142 | The lifetime of nitrogen oxides in an isoprene-dominated forest. Atmospheric Chemistry and Physics, 2016, 16, 7623-7637. | 5.0 | 79 |
| 143 | Vertical profiles in NO<sub>3</sub> and N<sub>2</sub>O<sub>5</sub> measured from an aircraft: Results from the NOAA Pâ€3 and surface platforms during the New England Air Quality Study 2004. Journal of Geophysical Research, 2007, 112, . | 3.3 | 78 |
| 144 | Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. Atmospheric Chemistry and Physics, 2017, 17, 1343-1359. | 5.0 | 78 |

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| 145 | Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. Environmental Science & Technology, 2019, 53, 2529-2538. | 10.5 | 78 |
| 146 | Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7725-7740. | 3.3 | 77 |
| 147 | A Library of Proton-Transfer Reactions of H<sub>3</sub>O<sup>+</sup> Ions Used for Trace Gas Detection. Journal of the American Society for Mass Spectrometry, 2019, 30, 1330-1335. | 3.1 | 77 |
| 148 | Droplet activation properties of organic aerosols observed at an urban site during CalNexâ€ŁA. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2903-2917. | 3.3 | 76 |
| 149 | Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. Geophysical Research Letters, 2006, 33, . | 4.0 | 75 |
| 150 | Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. Atmospheric Chemistry and Physics, 2019, 19, 12797-12809. | 5.0 | 75 |
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