

Alex B Guenther

List of Publications by Year in descending order

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390
papers

47,167
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docs citations

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times ranked

17151
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-------|-----------|
| 1 | Estimates of global terrestrial isoprene emissions using MEGAN (Model of Emissions of Gases and Aerosols from Nature) v1.0. <i>Global Biogeochemical Cycles</i> , 2010, 24, 103-118. | 10.78 | 3,818 |
| 2 | A global model of natural volatile organic compound emissions. <i>Journal of Geophysical Research</i> , 1995, 100, 8873. | 3.3 | 3,610 |
| 3 | The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions. <i>Geoscientific Model Development</i> , 2012, 5, 1471-1492. | 1.3 | 2,535 |
| 4 | Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). <i>Geoscientific Model Development</i> , 2010, 3, 43-67. | 1.3 | 1,590 |
| 5 | Isoprene and monoterpene emission rate variability: Model evaluations and sensitivity analyses. <i>Journal of Geophysical Research</i> , 1993, 98, 12609-12617. | 3.3 | 1,432 |
| 6 | Emissions of volatile organic compounds from vegetation and the implications for atmospheric chemistry. <i>Global Biogeochemical Cycles</i> , 1992, 6, 389-430. | 1.9 | 788 |
| 7 | Sulfur emissions to the atmosphere from natural sources. <i>Journal of Atmospheric Chemistry</i> , 1992, 14, 315-337. | 1.4 | 723 |
| 8 | Atmospheric composition change and its impact on global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350. | 1.9 | 714 |
| 9 | Global data set of biogenic VOC emissions calculated by the MEGAN model over the last 30 years. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9317-9341. | 1.9 | 648 |
| 10 | Natural emissions of non-methane volatile organic compounds, carbon monoxide, and oxides of nitrogen from North America. <i>Atmospheric Environment</i> , 2000, 34, 2205-2230. | 1.9 | 591 |
| 11 | Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017, 55, 509-559. | 9.0 | 548 |
| 12 | Biogenic Hydrocarbons in the Atmospheric Boundary Layer: A Review. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 1537-1575. | 1.7 | 532 |
| 13 | Isoprene and monoterpene emission rate variability: Observations with eucalyptus and emission rate algorithm development. <i>Journal of Geophysical Research</i> , 1991, 96, 10799-10808. | 3.3 | 496 |
| 14 | Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5781-5790. | 3.3 | 479 |
| 15 | Natural volatile organic compound emission rate estimates for U.S. woodland landscapes. <i>Atmospheric Environment</i> , 1994, 28, 1197-1210. | 1.9 | 477 |
| 16 | Inventorizing emissions from nature in Europe. <i>Journal of Geophysical Research</i> , 1999, 104, 8113-8152. | 3.3 | 452 |
| 17 | Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2017-2038. | 1.9 | 447 |
| 18 | A national inventory of biogenic hydrocarbon emissions. <i>Atmospheric Environment</i> , 1987, 21, 1695-1705. | 1.1 | 361 |

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|----|--|-----|-----------|
| 19 | Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7123-7128. | 3.3 | 337 |
| 20 | Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. Journal of Geophysical Research, 2008, 113, . | 3.3 | 335 |
| 21 | Biogenic emissions in Europe: 1. Estimates and uncertainties. Journal of Geophysical Research, 1995, 100, 22875. | 3.3 | 329 |
| 22 | SEASONAL AND SPATIAL VARIATIONS IN NATURAL VOLATILE ORGANIC COMPOUND EMISSIONS. , 1997, 7, 34-45. | | 306 |
| 23 | A review of the anthropogenic influence on biogenic secondary organic aerosol. Atmospheric Chemistry and Physics, 2011, 11, 321-343. | 1.9 | 297 |
| 24 | Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, . | 9.0 | 283 |
| 25 | 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. | 1.9 | 278 |
| 26 | A review and synthesis of monoterpene speciation from forests in the United States. Atmospheric Environment, 2000, 34, 1761-1781. | 1.9 | 266 |
| 27 | Global budget of methanol: Constraints from atmospheric observations. Journal of Geophysical Research, 2005, 110, . | 3.3 | 263 |
| 28 | An improved model for estimating emissions of volatile organic compounds from forests in the eastern United States. Journal of Geophysical Research, 1994, 99, 12773. | 3.3 | 256 |
| 29 | Global isoprene emissions estimated using MEGAN, ECMWF analyses and a detailed canopy environment model. Atmospheric Chemistry and Physics, 2008, 8, 1329-1341. | 1.9 | 249 |
| 30 | Quantifying the seasonal and interannual variability of North American isoprene emissions using satellite observations of the formaldehyde column. Journal of Geophysical Research, 2006, 111, . | 3.3 | 240 |
| 31 | Sesquiterpene emissions from vegetation: a review. Biogeosciences, 2008, 5, 761-777. | 1.3 | 240 |
| 32 | Influence of increased isoprene emissions on regional ozone modeling. Journal of Geophysical Research, 1998, 103, 25611-25629. | 3.3 | 234 |
| 33 | Spatial distribution of isoprene emissions from North America derived from formaldehyde column measurements by the OMI satellite sensor. Journal of Geophysical Research, 2008, 113, . | 3.3 | 234 |
| 34 | Environmental and developmental controls over the seasonal pattern of isoprene emission from aspen leaves. Oecologia, 1994, 99, 260-270. | 0.9 | 230 |
| 35 | Exchange processes of volatile organic compounds above a tropical rain forest: Implications for modeling tropospheric chemistry above dense vegetation. Journal of Geophysical Research, 2004, 109, . | 3.3 | 223 |
| 36 | The tropical forest and fire emissions experiment: laboratory fire measurements and synthesis of campaign data. Atmospheric Chemistry and Physics, 2008, 8, 3509-3527. | 1.9 | 221 |

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|----|--|-----|-----------|
| 37 | Efficient Atmospheric Cleansing of Oxidized Organic Trace Gases by Vegetation. <i>Science</i> , 2010, 330, 816-819. | 6.0 | 213 |
| 38 | Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4785-4797. | 1.9 | 213 |
| 39 | The Tropical Forest and Fire Emissions Experiment: overview and airborne fire emission factor measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5175-5196. | 1.9 | 212 |
| 40 | Isoprene emission estimates and uncertainties for the central African EXPRESSO study domain. <i>Journal of Geophysical Research</i> , 1999, 104, 30625-30639. | 3.3 | 207 |
| 41 | The tropical forest and fire emissions experiment: Emission, chemistry, and transport of biogenic volatile organic compounds in the lower atmosphere over Amazonia. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 206 |
| 42 | Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1037-1060. | 1.9 | 198 |
| 43 | Emission of 2-methyl-3-buten-2-ol by pines: A potentially large natural source of reactive carbon to the atmosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 25479-25486. | 3.3 | 194 |
| 44 | An inventory of nitric oxide emissions from soils in the United States. <i>Journal of Geophysical Research</i> , 1992, 97, 7511-7519. | 3.3 | 191 |
| 45 | Atmospheric methanol budget and ocean implication. <i>Global Biogeochemical Cycles</i> , 2002, 16, 80-1-80-13. | 1.9 | 191 |
| 46 | The Tropical Forest and Fire Emissions Experiment: method evaluation of volatile organic compound emissions measured by PTR-MS, FTIR, and GC from tropical biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5883-5897. | 1.9 | 186 |
| 47 | Virtual disjunct eddy covariance measurements of organic compound fluxes from a subalpine forest using proton transfer reaction mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2002, 2, 279-291. | 1.9 | 184 |
| 48 | Monoterpene and Sesquiterpene Emission Estimates for the United States. <i>Environmental Science & Technology</i> , 2008, 42, 1623-1629. | 4.6 | 182 |
| 49 | Effects of light, temperature and canopy position on net photosynthesis and isoprene emission from sweetgum (<i>Liquidambar styraciflua</i>) leaves. <i>Tree Physiology</i> , 1996, 16, 25-32. | 1.4 | 179 |
| 50 | Global terrestrial isoprene emission models: sensitivity to variability in climate and vegetation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8037-8052. | 1.9 | 178 |
| 51 | A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1843-1864. | 1.7 | 175 |
| 52 | Plant Production and Emission of Volatile Organic Compounds. <i>BioScience</i> , 1997, 47, 373-383. | 2.2 | 173 |
| 53 | The contribution of reactive carbon emissions from vegetation to the carbon balance of terrestrial ecosystems. <i>Chemosphere</i> , 2002, 49, 837-844. | 4.2 | 171 |
| 54 | Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , 2009, 36, . | 1.5 | 171 |

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| 55 | An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11415-11438. | 1.9 | 170 |
| 56 | Ozone photochemical production in urban Shanghai, China: Analysis based on ground level observations. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 167 |
| 57 | Estimations of isoprenoid emission capacity from enclosure studies: measurements, data processing, quality and standardized measurement protocols. <i>Biogeosciences</i> , 2011, 8, 2209-2246. | 1.3 | 166 |
| 58 | Atmospheric volatile organic compounds (VOC) at a remote tropical forest site in central Amazonia. <i>Atmospheric Environment</i> , 2000, 34, 4063-4072. | 1.9 | 164 |
| 59 | Sesquiterpene Emissions from Pine Trees – Identifications, Emission Rates and Flux Estimates for the Contiguous United States. <i>Environmental Science & Technology</i> , 2007, 41, 1545-1553. | 4.6 | 159 |
| 60 | Rapid cycling of reactive nitrogen in the marine boundary layer. <i>Nature</i> , 2016, 532, 489-491. | 13.7 | 159 |
| 61 | Response of isoprene emission to ambient CO ₂ changes and implications for global budgets. <i>Global Change Biology</i> , 2009, 15, 1127-1140. | 4.2 | 158 |
| 62 | Isoprene fluxes measured by enclosure, relaxed eddy accumulation, surface layer gradient, mixed layer gradient, and mixed layer mass balance techniques. <i>Journal of Geophysical Research</i> , 1996, 101, 18555-18567. | 3.3 | 154 |
| 63 | Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART-4. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 154 |
| 64 | Biogenic volatile organic compound emissions (BVOCs) I. Identifications from three continental sites in the U.S.. <i>Chemosphere</i> , 1999, 38, 2163-2187. | 4.2 | 148 |
| 65 | Seasonal variation of biogenic VOC emissions above a mixed hardwood forest in northern Michigan. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a. | 1.5 | 147 |
| 66 | Global emissions of non-methane hydrocarbons deduced from SCIAMACHY formaldehyde columns through 2003–2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3663-3679. | 1.9 | 144 |
| 67 | Assessment of volatile organic compound emissions from ecosystems of China. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 16-1-ACH 16-21. | 3.3 | 142 |
| 68 | Emissions and ambient distributions of Biogenic Volatile Organic Compounds (BVOC) in a ponderosa pine ecosystem: interpretation of PTR-MS mass spectra. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1759-1771. | 1.9 | 140 |
| 69 | A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. <i>Biogeosciences</i> , 2009, 6, 1059-1087. | 1.3 | 138 |
| 70 | Rapid formation of isoprene photo-oxidation products observed in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7753-7767. | 1.9 | 136 |
| 71 | Seasonal temperature variations influence isoprene emission. <i>Geophysical Research Letters</i> , 2001, 28, 1707-1710. | 1.5 | 135 |
| 72 | Megacity impacts on regional ozone formation: observations and WRF-Chem modeling for the MIRAGE-Shanghai field campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5655-5669. | 1.9 | 132 |

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| 73 | Estimates of regional natural volatile organic compound fluxes from enclosure and ambient measurements. <i>Journal of Geophysical Research</i> , 1996, 101, 1345-1359. | 3.3 | 131 |
| 74 | Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046. | 5.8 | 131 |
| 75 | Effect of drought on isoprene emission rates from leaves of <i>Quercus virginiana</i> Mill.. <i>Atmospheric Environment</i> , 2004, 38, 6149-6156. | 1.9 | 130 |
| 76 | Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 169-199. | 1.9 | 130 |
| 77 | Sesquiterpene emissions from loblolly pine and their potential contribution to biogenic aerosol formation in the Southeastern US. <i>Atmospheric Environment</i> , 2006, 40, 4150-4157. | 1.9 | 128 |
| 78 | Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446. | 4.6 | 128 |
| 79 | The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 981-997. | 1.7 | 128 |
| 80 | Seasonal and interannual variability of North American isoprene emissions as determined by formaldehyde column measurements from space. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a. | 1.5 | 125 |
| 81 | Methane emissions from upland forest soils and vegetation. <i>Tree Physiology</i> , 2008, 28, 491-498. | 1.4 | 125 |
| 82 | Temporal variability in basal isoprene emission factor. <i>Tree Physiology</i> , 2000, 20, 799-805. | 1.4 | 123 |
| 83 | Eddy covariance measurement of isoprene fluxes. <i>Journal of Geophysical Research</i> , 1998, 103, 13145-13152. | 3.3 | 122 |
| 84 | First space-based derivation of the global atmospheric methanol emission fluxes. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4873-4898. | 1.9 | 122 |
| 85 | Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12181-12194. | 1.9 | 121 |
| 86 | Eddy covariance measurements of oxygenated volatile organic compound fluxes from crop harvesting using a redesigned proton-transfer-reaction mass spectrometer. <i>Journal of Geophysical Research</i> , 2001, 106, 24157-24167. | 3.3 | 119 |
| 87 | Carbon trace gas fluxes along a successional gradient in the Hudson Bay lowland. <i>Journal of Geophysical Research</i> , 1994, 99, 1469. | 3.3 | 118 |
| 88 | Light dependency of VOC emissions from selected Mediterranean plant species. <i>Atmospheric Environment</i> , 2002, 36, 3147-3159. | 1.9 | 118 |
| 89 | Development of Atmospheric Tracer Methods To Measure Methane Emissions from Natural Gas Facilities and Urban Areas. <i>Environmental Science & Technology</i> , 1995, 29, 1468-1479. | 4.6 | 117 |
| 90 | Environmental controls over isoprene emission in deciduous oak canopies. <i>Tree Physiology</i> , 1997, 17, 705-714. | 1.4 | 117 |

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| 91 | Role of canopy-scale photochemistry in modifying biogenic-atmosphere exchange of reactive terpene species: Results from the CELTIC field study. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 117 |
| 92 | Towards a quantitative understanding of total OH reactivity: A review. <i>Atmospheric Environment</i> , 2016, 134, 147-161. | 1.9 | 117 |
| 93 | Model sensitivity evaluation for organic carbon using two multi-pollutant air quality models that simulate regional haze in the southeastern United States. <i>Atmospheric Environment</i> , 2006, 40, 4960-4972. | 1.9 | 116 |
| 94 | Measurement of atmospheric sesquiterpenes by proton transfer reaction-mass spectrometry (PTR-MS). <i>Atmospheric Measurement Techniques</i> , 2009, 2, 99-112. | 1.2 | 115 |
| 95 | Isoprene emissions over Asia 1979–2012: impact of climate and land-use changes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4587-4605. | 1.9 | 114 |
| 96 | Tethered balloon measurements of biogenic VOCs in the atmospheric boundary layer. <i>Atmospheric Environment</i> , 1999, 33, 855-867. | 1.9 | 111 |
| 97 | Eddy covariance measurement of biogenic oxygenated VOC emissions from hay harvesting. <i>Atmospheric Environment</i> , 2001, 35, 491-495. | 1.9 | 110 |
| 98 | Future Changes in Biogenic Isoprene Emissions: How Might They Affect Regional and Global Atmospheric Chemistry?. <i>Earth Interactions</i> , 2006, 10, 1-19. | 0.7 | 110 |
| 99 | Impacts of weather conditions modified by urban expansion on surface ozone: Comparison between the Pearl River Delta and Yangtze River Delta regions. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 962-972. | 1.9 | 110 |
| 100 | The bi-directional exchange of oxygenated VOCs between a loblolly pine (<>Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3015-3031. | 1.9 | 109 |
| 101 | The Canopy Horizontal Array Turbulence Study. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 593-611. | 1.7 | 109 |
| 102 | Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10133-10158. | 1.9 | 109 |
| 103 | Eddy covariance fluxes of peroxyacetyl nitrates (PANs) and NO _y to a coniferous forest. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 107 |
| 104 | An Eddy-Covariance System for the Measurement of Surface/Atmosphere Exchange Fluxes of Submicron Aerosol Chemical Species—First Application Above an Urban Area. <i>Aerosol Science and Technology</i> , 2008, 42, 636-657. | 1.5 | 107 |
| 105 | Simulating biogenic volatile organic compound emissions in the Community Climate System Model. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 106 |
| 106 | Biogenic methanol and its impacts on tropospheric oxidants. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a. | 1.5 | 104 |
| 107 | Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , 2015, 5, 12064. | 1.6 | 104 |
| 108 | Disjunct eddy covariance measurements of oxygenated volatile organic compounds fluxes from an alfalfa field before and after cutting. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 6-1. | 3.3 | 103 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Isoprene emission capacity for US tree species. <i>Atmospheric Environment</i> , 2001, 35, 3341-3352. | 1.9 | 101 |
| 110 | First direct measurements of formaldehyde flux via eddy covariance: implications for missing in-canopy formaldehyde sources. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10565-10578. | 1.9 | 101 |
| 111 | Leaf, branch, stand and landscape scale measurements of volatile organic compound fluxes from U.S. woodlands. <i>Tree Physiology</i> , 1996, 16, 17-24. | 1.4 | 99 |
| 112 | Biogenic volatile organic compound emissions from a lowland tropical wet forest in Costa Rica. <i>Atmospheric Environment</i> , 2002, 36, 3793-3802. | 1.9 | 99 |
| 113 | Net ecosystem fluxes of isoprene over tropical South America inferred from Global Ozone Monitoring Experiment (GOME) observations of HCHO columns. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 99 |
| 114 | Effect of isoprene emissions from major forests on ozone formation in the city of Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10449-10459. | 1.9 | 98 |
| 115 | Variation in potential for isoprene emissions among Neotropical forest sites. <i>Global Change Biology</i> , 2004, 10, 630-650. | 4.2 | 96 |
| 116 | Measurement of biogenic sulfur emissions from soils and vegetation: Application of dynamic enclosure methods with Natusch filter and GC/FPD analysis. <i>Journal of Atmospheric Chemistry</i> , 1987, 5, 469-491. | 1.4 | 95 |
| 117 | A high-resolution emission inventory for eastern China in 2000 and three scenarios for 2020. <i>Atmospheric Environment</i> , 2005, 39, 5917-5933. | 1.9 | 95 |
| 118 | Biogenic hydrocarbon emissions from southern African savannas. <i>Journal of Geophysical Research</i> , 1996, 101, 25859-25865. | 3.3 | 93 |
| 119 | Disjunct eddy covariance technique for trace gas flux measurements. <i>Geophysical Research Letters</i> , 2001, 28, 3139-3142. | 1.5 | 93 |
| 120 | Chemical sensing of plant stress at the ecosystem scale. <i>Biogeosciences</i> , 2008, 5, 1287-1294. | 1.3 | 93 |
| 121 | Environmental controls over methanol emission from leaves. <i>Biogeosciences</i> , 2007, 4, 1083-1099. | 1.3 | 90 |
| 122 | Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 89 |
| 123 | Patterns in volatile organic compound emissions along a savanna-rainforest gradient in central Africa. <i>Journal of Geophysical Research</i> , 1998, 103, 1443-1454. | 3.3 | 88 |
| 124 | Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3687-3701. | 1.9 | 88 |
| 125 | Volatile organic compounds from vegetation in southern Yunnan Province, China: Emission rates and some potential regional implications. <i>Atmospheric Environment</i> , 2006, 40, 1759-1773. | 1.9 | 87 |
| 126 | Approaches for quantifying reactive and low-volatility biogenic organic compound emissions by vegetation enclosure techniques – Part B: Applications. <i>Chemosphere</i> , 2008, 72, 365-380. | 4.2 | 86 |

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| 127 | SOSA â€“ a new model to simulate the concentrations of organic vapours and sulphuric acid inside the ABL â€“ Part 1: Model description and initial evaluation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 43-51. | 1.9 | 86 |
| 128 | Dry Deposition of Ozone Over Land: Processes, Measurement, and Modeling. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000670. | 9.0 | 86 |
| 129 | Isoprene photochemistry over the Amazon rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6125-6130. | 3.3 | 85 |
| 130 | Topâ€“down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6849-6868. | 1.2 | 84 |
| 131 | New particle formation in the Front Range of the Colorado Rocky Mountains. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1577-1590. | 1.9 | 83 |
| 132 | Contribution of leaf and needle litter to whole ecosystem BVOC fluxes. <i>Atmospheric Environment</i> , 2012, 59, 302-311. | 1.9 | 83 |
| 133 | Comparison of different real time VOC measurement techniques in a ponderosa pine forest. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2893-2906. | 1.9 | 83 |
| 134 | A biogenic volatile organic compound emission inventory for Hong Kong. <i>Atmospheric Environment</i> , 2009, 43, 6442-6448. | 1.9 | 82 |
| 135 | Attribution of projected changes in summertime US ozone and PM _{2.5} concentrations to global changes. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1111-1124. | 1.9 | 82 |
| 136 | Isoprene suppression of new particle formation in a mixed deciduous forest. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6013-6027. | 1.9 | 82 |
| 137 | Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10243-10269. | 1.9 | 82 |
| 138 | Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580. | 1.9 | 82 |
| 139 | Canopy fluxes of 2-methyl-3-buten-2-ol over a ponderosa pine forest by relaxed eddy accumulation: Field data and model comparison. <i>Journal of Geophysical Research</i> , 1999, 104, 26107-26114. | 3.3 | 81 |
| 140 | Cloud Activating Properties of Aerosol Observed during CELTIC. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 441-459. | 0.6 | 81 |
| 141 | Contributions of primary and secondary biogenic VOC to total OH reactivity during the CABINEX (Community Atmosphere-Biosphere INteractions Experiments)-09 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8613-8623. | 1.9 | 80 |
| 142 | In-canopy gas-phase chemistry during CABINEX 2009: sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8829-8849. | 1.9 | 78 |
| 143 | Impacts of seasonal and regional variability in biogenic VOC emissions on surface ozone in the Pearl River delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11803-11817. | 1.9 | 78 |
| 144 | How consistent are top-down hydrocarbon emissions based on formaldehyde observations from GOME-2 and OMI?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11861-11884. | 1.9 | 77 |

| # | ARTICLE | IF | CITATIONS |
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| 145 | Modelling changes in VOC emission in response to climate change in the continental United States. <i>Global Change Biology</i> , 1999, 5, 791-806. | 4.2 | 76 |
| 146 | Ecosystem-scale volatile organic compound fluxes during an extreme drought in a broadleaf temperate forest of the Missouri Ozarks (central USA). <i>Global Change Biology</i> , 2015, 21, 3657-3674. | 4.2 | 76 |
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