# Benjamin de Foy

List of Publications by Year
in descending order



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|---|---|---|---|
| 93 papers | 6,627 citations | 66336 42 h-index | 79691 73 g-index |
| 109 all docs | 109 docs citations | 109 times ranked | 5149 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) â€“ Part 1: Fine particle composition and organic source apportionment. Atmospheric Chemistry and Physics, 2009, 9, 6633-6653. | 4.9 | 525 |
| 2 | An overview of the MILAGRO 2006 Campaign: Mexico City emissions and their transport and transformation. Atmospheric Chemistry and Physics, 2010, 10, 8697-8760. | 4.9 | 349 |
| 3 | Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO. Atmospheric Chemistry and Physics, 2010, 10, 5257-5280. | 4.9 | 325 |
| 4 | Emissions estimation from satellite retrievals: A review of current capability. Atmospheric Environment, 2013, 77, 1011-1042. | 4.1 | 323 |
| 5 | Air quality in North America's most populous city â€“ overview of the MCMA-2003 campaign. Atmospheric Chemistry and Physics, 2007, 7, 2447-2473. | 4.9 | 286 |
| 6 | Measurement of ambient aerosols in northern Mexico City by single particle mass spectrometry. Atmospheric Chemistry and Physics, 2008, 8, 4499-4516. | 4.9 | 257 |
| 7 | A meteorological overview of the MILAGRO field campaigns. Atmospheric Chemistry and Physics, 2007, 7, 2233-2257. | 4.9 | 199 |
| 8 | Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) â€“ Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. Atmospheric Chemistry and Physics, 2010, 10, 5315-5341. | 4.9 | 182 |
| 9 | Distribution, magnitudes, reactivities, ratios and diurnal patterns of volatile organic compounds in the Valley of Mexico during the MCMA 2002 & 2003 field campaigns. Atmospheric Chemistry and Physics, 2007, 7, 329-353. | 4.9 | 167 |
| 10 | Correlation of secondary organic aerosol with odd oxygen in Mexico City. Geophysical Research Letters, 2008, 35, . | 4.0 | 161 |
| 11 | Characterizing ozone production in the Mexico City Metropolitan Area: a case study using a chemical transport model. Atmospheric Chemistry and Physics, 2007, 7, 1347-1366. | 4.9 | 154 |
| 12 | Black carbon over Mexico: the effect of atmospheric transport on mixing state, mass absorption cross-section, and BC/CO ratios. Atmospheric Chemistry and Physics, 2010, 10, 219-237. | 4.9 | 140 |
| 13 | Rapid ventilation of the Mexico City basin and regional fate of the urban plume. Atmospheric Chemistry and Physics, 2006, 6, 2321-2335. | 4.9 | 130 |
| 14 | Basin-scale wind transport during the MILAGRO field campaign and comparison to climatology using cluster analysis. Atmospheric Chemistry and Physics, 2008, 8, 1209-1224. | 4.9 | 130 |
| 15 | Satellite NO2 retrievals suggest China has exceeded its NOx reduction goals from the twelfth Five-Year Plan. Scientific Reports, 2016, 6, 35912. | 3.3 | 126 |
| 16 | Mexico City basin wind circulation during the MCMA-2003 field campaign. Atmospheric Chemistry and Physics, 2005, 5, 2267-2288. | 4.9 | 124 |
| 17 | Seasonal Variations of the Urban Heat Island at the Surface and the Near-Surface and Reductions due to Urban Vegetation in Mexico City. Journal of Applied Meteorology and Climatology, 2012, 51, 855-868. | 1.5 | 113 |
| 18 | Ozone Monitoring Instrument Observations of Interannual Increases in SO<sub>2</sub> Emissions from Indian Coal-Fired Power Plants during 2005â€“2012. Environmental Science & Technology, 2013, 47, 13993-14000. | 10.0 | 113 |

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|---|---|---|---|
| 19 | Estimates of power plant NOx emissions and lifetimes from OMI NO2 satellite retrievals. Atmospheric Environment, 2015, 116, 1-11. | 4.1 | 108 |
| 20 | Enhanced Capabilities of TROPOMI NO<sub>2</sub>: Estimating NO<sub><i>X</i></sub> from North American Cities and Power Plants. Environmental Science & Technology, 2019, 53, 12594-12601. | 10.0 | 103 |
| 21 | The observed response of Ozone Monitoring Instrument (OMI) NO2 columns to NOx emission controls on power plants in the United States: 2005â€“2011. Atmospheric Environment, 2013, 81, 102-111. | 4.1 | 99 |
| 22 | Aerosol composition and source apportionment in the Mexico City Metropolitan Area with PIXE/PESA/STIM and multivariate analysis. Atmospheric Chemistry and Physics, 2006, 6, 4591-4600. | 4.9 | 98 |
| 23 | Hit from both sides: tracking industrial and volcanic plumes in Mexico City with surface measurements and OMI SO<sub>2</sub> retrievals during the MILAGRO field campaign. Atmospheric Chemistry and Physics, 2009, 9, 9599-9617. | 4.9 | 96 |
| 24 | Emissions of nitrogen oxides from US urban areas: estimation from Ozone Monitoring Instrument retrievals for 2005â€“2014. Atmospheric Chemistry and Physics, 2015, 15, 10367-10383. | 4.9 | 94 |
| 25 | Relative impact of emissions controls and meteorology on air pollution mitigation associated with the Asia-Pacific Economic Cooperation (APEC) conference in Beijing, China. Science of the Total Environment, 2016, 571, 1467-1476. | 8.0 | 83 |
| 26 | Modelling constraints on the emission inventory and on vertical dispersion for CO and SO<sub>2</sub> in the Mexico City Metropolitan Area using Solar FTIR and zenith sky UV spectroscopy. Atmospheric Chemistry and Physics, 2007, 7, 781-801. | 4.9 | 82 |
| 27 | In situ measurements of speciated atmospheric mercury and the identification of source regions in the Mexico City Metropolitan Area. Atmospheric Chemistry and Physics, 2009, 9, 207-220. | 4.9 | 80 |
| 28 | Model evaluation of methods for estimating surface emissions and chemical lifetimes from satellite data. Atmospheric Environment, 2014, 98, 66-77. | 4.1 | 75 |
| 29 | Ozone response to emission changes: a modeling study during the MCMA-2006/MILAGRO Campaign. Atmospheric Chemistry and Physics, 2010, 10, 3827-3846. | 4.9 | 73 |
| 30 | Impact of primary formaldehyde on air pollution in the Mexico City Metropolitan Area. Atmospheric Chemistry and Physics, 2009, 9, 2607-2618. | 4.9 | 70 |
| 31 | A top-down assessment using OMI NO<sub>2</sub> suggests an underestimate in the NO<sub><i>x</i></sub> emissions inventory in Seoul, South Korea, during KORUS-AQ. Atmospheric Chemistry and Physics, 2019, 19, 1801-1818. | 4.9 | 68 |
| 32 | Tula industrial complex (Mexico) emissions of SO<sub>2</sub> and NO<sub>2</sub> during the MCMA 2006 field campaign using a mobile mini-DOAS system. Atmospheric Chemistry and Physics, 2009, 9, 6351-6361. | 4.9 | 63 |
| 33 | Surface ozone at Nam Co in the inland Tibetan Plateau: variation, synthesis comparison and regional representativeness. Atmospheric Chemistry and Physics, 2017, 17, 11293-11311. | 4.9 | 63 |
| 34 | Composition and variation of noise recorded at the Yellowknife Seismic Array, 1991â€“2007. Journal of Geophysical Research, 2009, 114, . | 3.3 | 59 |
| 35 | Evaluation of WRF mesoscale simulations and particle trajectory analysis for the MILAGRO field campaign. Atmospheric Chemistry and Physics, 2009, 9, 4419-4438. | 4.9 | 59 |
| 36 | Distinct wind convergence patterns in the Mexico City basin due to the interaction of the gap winds with the synoptic flow. Atmospheric Chemistry and Physics, 2006, 6, 1249-1265. | 4.9 | 58 |

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| 37 | Seasonal Anisotropy in Short-Period Seismic Noise Recorded in South Asia. Bulletin of the Seismological Society of America, 2008, 98, 3033-3045. | 2.3 | 57 |
| 38 | Mobile mini-DOAS measurement of the outflow of NO<sub>2</sub> and HCHO from Mexico City. Atmospheric Chemistry and Physics, 2009, 9, 5647-5653. | 4.9 | 56 |
| 39 | Characterizing ozone production and response under different meteorological conditions in Mexico City. Atmospheric Chemistry and Physics, 2008, 8, 7571-7581. | 4.9 | 55 |
| 40 | Gaseous and particulate pollutants in Lhasa, Tibet during 2013â€“2017: Spatial variability, temporal variations and implications. Environmental Pollution, 2019, 253, 68-77. | 7.5 | 53 |
| 41 | Satellite-derived land surface parameters for mesoscale modelling of the Mexico City basin. Atmospheric Chemistry and Physics, 2006, 6, 1315-1330. | 4.9 | 51 |
| 42 | Determination of particulate lead using aerosol mass spectrometry: MILAGRO/MCMA-2006 observations. Atmospheric Chemistry and Physics, 2010, 10, 5371-5389. | 4.9 | 48 |
| 43 | Positive association between short-term ambient air pollution exposure and children blood pressure in Chinaâ€“Result from the Seven Northeast Cities (SNEC) study. Environmental Pollution, 2017, 224, 698-705. | 7.5 | 48 |
| 44 | Using 3DVAR data assimilation system to improve ozone simulations in the Mexico City basin. Atmospheric Chemistry and Physics, 2008, 8, 7353-7366. | 4.9 | 47 |
| 45 | Quantitative estimation of meteorological impacts and the COVID-19 lockdown reductions on NO2 and PM2.5 over the Beijing area using Generalized Additive Models (GAM). Journal of Environmental Management, 2021, 291, 112676. | 7.8 | 47 |
| 46 | Impacts of control strategies, the Great Recession and weekday variations on NO 2 columns above North American cities. Atmospheric Environment, 2016, 138, 74-86. | 4.1 | 44 |
| 47 | Aerosol plume transport and transformation in high spectral resolution lidar measurements and WRF-Flexpart simulations during the MILAGRO Field Campaign. Atmospheric Chemistry and Physics, 2011, 11, 3543-3563. | 4.9 | 43 |
| 48 | Multi-year monitoring of atmospheric total gaseous mercury at a remote high-altitude site (Nam Co,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 10557-10574. | 4.9 | 42 |
| 49 | Spatial and temporal variability of particulate polycyclic aromatic hydrocarbons in Mexico City. Atmospheric Chemistry and Physics, 2008, 8, 3093-3105. | 4.9 | 40 |
| 50 | Sources of nickel, vanadium and black carbon in aerosols in Milwaukee. Atmospheric Environment, 2012, 59, 294-301. | 4.1 | 38 |
| 51 | City-level variations in NOx emissions derived from hourly monitoring data in Chicago. Atmospheric Environment, 2018, 176, 128-139. | 4.1 | 38 |
| 52 | Changes in ozone photochemical regime in Fresno, California from 1994 to 2018 deduced from changes in the weekend effect. Environmental Pollution, 2020, 263, 114380. | 7.5 | 34 |
| 53 | Microseisms from Superstorm Sandy. Earth and Planetary Science Letters, 2014, 402, 324-336. | 4.4 | 33 |
| 54 | Competing PM2.5 and NO2 holiday effects in the Beijing area vary locally due to differences in residential coal burning and traffic patterns. Science of the Total Environment, 2021, 750, 141575. | 8.0 | 32 |

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|---|---|---|---|
| 55 | Developing intake fraction estimates with limited data: Comparison of methods in Mexico City. Atmospheric Environment, 2007, 41, 3672-3683. | 4.1 | 29 |
| 56 | First field-based atmospheric observation of the reduction of reactive mercury driven by sunlight. Atmospheric Environment, 2016, 134, 27-39. | 4.1 | 28 |
| 57 | Impact of regional transport on the anthropogenic and biogenic secondary organic aerosols in the Los Angeles Basin. Atmospheric Environment, 2015, 103, 171-179. | 4.1 | 27 |
| 58 | Long-range pollution transport during the MILAGRO-2006 campaign: a case study of a major Mexico City outflow event using free-floating altitude-controlled balloons. Atmospheric Chemistry and Physics, 2010, 10, 7137-7159. | 4.9 | 25 |
| 59 | Estimating sources of elemental and organic carbon and their temporal emission patterns using a least squares inverse model and hourly measurements from the St. Louisâ€“Midwest supersite. Atmospheric Chemistry and Physics, 2015, 15, 2405-2427. | 4.9 | 25 |
| 60 | First measurement of atmospheric mercury species in Qomolangma Natural Nature Preserve, Tibetan Plateau, and evidence oftransboundary pollutant invasion. Atmospheric Chemistry and Physics, 2019, 19, 1373-1391. | 4.9 | 23 |
| 61 | A global perspective on national climate mitigation priorities in the context of air pollution and sustainable development. City and Environment Interactions, 2019, 1, 100003. | 4.2 | 22 |
| 62 | Identification of potential source areas for elevated PM2.5, nitrate and sulfate concentrations. Atmospheric Environment, 2013, 71, 187-197. | 4.1 | 21 |
| 63 | Source apportionment of PM2.5 organic carbon in the San Joaquin Valley using monthly and daily observations and meteorological clustering. Environmental Pollution, 2018, 237, 366-376. | 7.5 | 21 |
| 64 | Impacts of regional transport on black carbon in Huairou, Beijing, China. Environmental Pollution, 2017, 221, 75-84. | 7.5 | 20 |
| 65 | Estimation of mercury emissions from forest fires, lakes, regional and local sources using measurements in Milwaukee and an inverse method. Atmospheric Chemistry and Physics, 2012, 12, 8993-9011. | 4.9 | 19 |
| 66 | Assessment of forest fire impacts on carbonaceous aerosols using complementary molecular marker receptor models at two urban locations in California's San Joaquin Valley. Environmental Pollution, 2019, 246, 274-283. | 7.5 | 19 |
| 67 | An improved understanding of NOx emissions in South Asian megacities using TROPOMI NO<sub>2</sub> retrievals. Environmental Research Letters, 2022, 17, 024006. | 5.2 | 19 |
| 68 | The oxidative potential and biological effects induced by PM10 obtained in Mexico City and at a receptor site during the MILAGRO Campaign. Environmental Pollution, 2011, 159, 3446-3454. | 7.5 | 17 |
| 69 | Estimation of direct emissions and atmospheric processing of reactive mercury using inverse modeling. Atmospheric Environment, 2014, 85, 73-82. | 4.1 | 17 |
| 70 | Influence of transboundary air pollution on air quality in southwestern China. Geoscience Frontiers, 2021, 12, 101239. | 8.4 | 17 |
| 71 | Modeling Inorganic Aerosols and Their Response to Changes in Precursor Concentration in Mexico City. Journal of the Air and Waste Management Association, 2005, 55, 803-815. | 1.9 | 15 |
| 72 | Origin of high particle number concentrations reaching the St. Louis, Midwest Supersite. Journal of Environmental Sciences, 2015, 34, 219-231. | 6.1 | 14 |

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| 73 | Latest observations of total gaseous mercury in a megacity (Lanzhou) in northwest China. Science of the Total Environment, 2020, 720, 137494. | 8.0 | 14 |
| 74 | Unstructured pressure-correction solver based on a consistent discretization of the Poisson equation. International Journal for Numerical Methods in Fluids, 2000, 34, 463-478. | 1.6 | 13 |
| 75 | Sources of metals and bromine-containing particles in Milwaukee. Atmospheric Environment, 2013, 73, 124-130. | 4.1 | 13 |
| 76 | Evaluation of Stratospheric Intrusions and Biomass Burning Plumes on the Vertical Distribution of Tropospheric Ozone Over the Midwestern United States. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032454. | 3.3 | 13 |
| 77 | Improved PM<sub>2.5</sub> concentration estimates from low-cost sensors using calibration models categorized by relative humidity. Aerosol Science and Technology, 2021, 55, 600-613. | 3.1 | 13 |
| 78 | Impacts of Indian summer monsoon and stratospheric intrusion on air pollutants in the inland Tibetan Plateau. Geoscience Frontiers, 2021, 12, 101255. | 8.4 | 13 |
| 79 | Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2014, 14, 11011-11029. | 4.9 | 12 |
| 80 | A hybrid method for PM2.5 source apportionment through WRF-Chem simulations and an assessment of emission-reduction measures in western China. Atmospheric Research, 2020, 236, 104787. | 4.1 | 12 |
| 81 | Changes in speciated PM2.5 concentrations in Fresno, California, due to NOx reductions and variations in diurnal emission profiles by day of week. Elementa, 2019, 7, . | 3.2 | 12 |
| 82 | Contributions of wood smoke and vehicle emissions to ambient concentrations of volatile organic compounds and particulate matter during the Yakima wintertime nitrate study. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1871-1883. | 3.3 | 11 |
| 83 | Source attribution of black and Brown carbon near-UV light absorption in Beijing, China and the impact of regional air-mass transport. Science of the Total Environment, 2022, 807, 150871. | 8.0 | 11 |
| 84 | Impacts of secondary aerosol formation and long range transport on severe haze during the winter of 2017 in the Seoul metropolitan area. Science of the Total Environment, 2022, 804, 149984. | 8.0 | 10 |
| 85 | Distinguishing Air Pollution Due to Stagnation, Local Emissions, and Long-Range Transport Using a Generalized Additive Model to Analyze Hourly Monitoring Data. ACS Earth and Space Chemistry, 2021, 5, 2329-2340. | 2.7 | 8 |
| 86 | First observation of mercury species on an important water vapor channel in the southeastern Tibetan Plateau. Atmospheric Chemistry and Physics, 2022, 22, 2651-2668. | 4.9 | 8 |
| 87 | Impacts of Sources on PM<sub>2.5</sub> Oxidation Potential during and after the Asia-Pacific Economic Cooperation Conference in Huairou, Beijing. Environmental Science & Technology, 2020, 54, 2585-2594. | 10.0 | 6 |
| 88 | Source attribution of air pollution using a generalized additive model and particle trajectory clusters. Science of the Total Environment, 2021, 780, 146458. | 8.0 | 6 |
| 89 | The investigations on organic sources and inorganic formation processes and their implications on haze during late winter in Seoul, Korea. Environmental Research, 2022, 212, 113174. | 7.5 | 5 |
| 90 | A potential route for photolytic reduction of HgCl2 and HgBr2 in dry air and analysis about the impacts from Ozone. Atmospheric Research, 2021, 249, 105310. | 4.1 | 4 |

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|---|---|---|---|
| 91 | Chemical speciation of PM2.5 in Tehran: Quantification of dust contribution and model validation. Atmospheric Pollution Research, 2020, 11, 1839-1846. | 3.8 | 2 |
| 92 | The design of improved smoothing operators for finite volume flow solvers on unstructured meshes. International Journal for Numerical Methods in Fluids, 2001, 36, 903-923. | 1.6 | 1 |
| 93 | â€œMilitary Parade Blue Skiesâ€•in Beijing: Decisive Influence of Meteorological Factors on Transport Channel and Atmospheric Pollutant Concentration Level. Atmosphere, 2021, 12, 636. | 2.3 | 1 |