

Benjamin de Foy

List of Publications by Year in descending order

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93
papers

6,627
citations

76031

42
h-index

90395

73
g-index

109
all docs

109
docs citations

109
times ranked

5801
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of secondary aerosol formation and long range transport on severe haze during the winter of 2017 in the Seoul metropolitan area. <i>Science of the Total Environment</i> , 2022, 804, 149984.	3.9	10
2	Source attribution of black and Brown carbon near-UV light absorption in Beijing, China and the impact of regional air-mass transport. <i>Science of the Total Environment</i> , 2022, 807, 150871.	3.9	11
3	An improved understanding of NO _x emissions in South Asian megacities using TROPOMI NO ₂ retrievals. <i>Environmental Research Letters</i> , 2022, 17, 024006.	2.2	19
4	First observation of mercury species on an important water vapor channel in the southeastern Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2651-2668.	1.9	8
5	The investigations on organic sources and inorganic formation processes and their implications on haze during late winter in Seoul, Korea. <i>Environmental Research</i> , 2022, 212, 113174.	3.7	5
6	A potential route for photolytic reduction of HgCl ₂ and HgBr ₂ in dry air and analysis about the impacts from Ozone. <i>Atmospheric Research</i> , 2021, 249, 105310.	1.8	4
7	Competing PM _{2.5} and NO ₂ holiday effects in the Beijing area vary locally due to differences in residential coal burning and traffic patterns. <i>Science of the Total Environment</i> , 2021, 750, 141575.	3.9	32
8	Improved PM _{2.5} concentration estimates from low-cost sensors using calibration models categorized by relative humidity. <i>Aerosol Science and Technology</i> , 2021, 55, 600-613.	1.5	13
9	“Military Parade Blue Skies” in Beijing: Decisive Influence of Meteorological Factors on Transport Channel and Atmospheric Pollutant Concentration Level. <i>Atmosphere</i> , 2021, 12, 636.	1.0	1
10	Source attribution of air pollution using a generalized additive model and particle trajectory clusters. <i>Science of the Total Environment</i> , 2021, 780, 146458.	3.9	6
11	Quantitative estimation of meteorological impacts and the COVID-19 lockdown reductions on NO ₂ and PM _{2.5} over the Beijing area using Generalized Additive Models (GAM). <i>Journal of Environmental Management</i> , 2021, 291, 112676.	3.8	47
12	Distinguishing Air Pollution Due to Stagnation, Local Emissions, and Long-Range Transport Using a Generalized Additive Model to Analyze Hourly Monitoring Data. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2329-2340.	1.2	8
13	Influence of transboundary air pollution on air quality in southwestern China. <i>Geoscience Frontiers</i> , 2021, 12, 101239.	4.3	17
14	Impacts of Indian summer monsoon and stratospheric intrusion on air pollutants in the inland Tibetan Plateau. <i>Geoscience Frontiers</i> , 2021, 12, 101255.	4.3	13
15	A hybrid method for PM _{2.5} source apportionment through WRF-Chem simulations and an assessment of emission-reduction measures in western China. <i>Atmospheric Research</i> , 2020, 236, 104787.	1.8	12
16	Evaluation of Stratospheric Intrusions and Biomass Burning Plumes on the Vertical Distribution of Tropospheric Ozone Over the Midwestern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032454.	1.2	13
17	Chemical speciation of PM _{2.5} in Tehran: Quantification of dust contribution and model validation. <i>Atmospheric Pollution Research</i> , 2020, 11, 1839-1846.	1.8	2
18	Latest observations of total gaseous mercury in a megacity (Lanzhou) in northwest China. <i>Science of the Total Environment</i> , 2020, 720, 137494.	3.9	14

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19	Impacts of Sources on PM _{2.5} Oxidation Potential during and after the Asia-Pacific Economic Cooperation Conference in Huairou, Beijing. <i>Environmental Science & Technology</i> , 2020, 54, 2585-2594.	4.6	6
20	Changes in ozone photochemical regime in Fresno, California from 1994 to 2018 deduced from changes in the weekend effect. <i>Environmental Pollution</i> , 2020, 263, 114380.	3.7	34
21	Gaseous and particulate pollutants in Lhasa, Tibet during 2013–2017: Spatial variability, temporal variations and implications. <i>Environmental Pollution</i> , 2019, 253, 68-77.	3.7	53
22	Enhanced Capabilities of TROPOMI NO ₂ : Estimating NO ₂ from North American Cities and Power Plants. <i>Environmental Science & Technology</i> , 2019, 53, 12594-12601.	4.6	103
23	A global perspective on national climate mitigation priorities in the context of air pollution and sustainable development. <i>City and Environment Interactions</i> , 2019, 1, 100003.	1.8	22
24	First measurement of atmospheric mercury species in Qomolangma Natural Nature Preserve, Tibetan Plateau, and evidence of transboundary pollutant invasion. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1373-1391.	1.9	23
25	A top-down assessment using OMI NO ₂ suggests an underestimate in the NO _x emissions inventory in Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1801-1818.	1.9	68
26	Assessment of forest fire impacts on carbonaceous aerosols using complementary molecular marker receptor models at two urban locations in California's San Joaquin Valley. <i>Environmental Pollution</i> , 2019, 246, 274-283.	3.7	19
27	Changes in speciated PM _{2.5} concentrations in Fresno, California, due to NO _x reductions and variations in diurnal emission profiles by day of week. <i>Elementa</i> , 2019, 7, .	1.1	12
28	Source apportionment of PM _{2.5} organic carbon in the San Joaquin Valley using monthly and daily observations and meteorological clustering. <i>Environmental Pollution</i> , 2018, 237, 366-376.	3.7	21
29	City-level variations in NO _x emissions derived from hourly monitoring data in Chicago. <i>Atmospheric Environment</i> , 2018, 176, 128-139.	1.9	38
30	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.	1.9	42
31	Contributions of wood smoke and vehicle emissions to ambient concentrations of volatile organic compounds and particulate matter during the Yakima wintertime nitrate study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1871-1883.	1.2	11
32	Positive association between short-term ambient air pollution exposure and children blood pressure in China—Result from the Seven Northeast Cities (SNEC) study. <i>Environmental Pollution</i> , 2017, 224, 698-705.	3.7	48
33	Impacts of regional transport on black carbon in Huairou, Beijing, China. <i>Environmental Pollution</i> , 2017, 221, 75-84.	3.7	20
34	Surface ozone at Nam Co in the inland Tibetan Plateau: variation, synthesis comparison and regional representativeness. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11293-11311.	1.9	63
35	Satellite NO ₂ retrievals suggest China has exceeded its NO _x reduction goals from the twelfth Five-Year Plan. <i>Scientific Reports</i> , 2016, 6, 35912.	1.6	126
36	First field-based atmospheric observation of the reduction of reactive mercury driven by sunlight. <i>Atmospheric Environment</i> , 2016, 134, 27-39.	1.9	28

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37	Impacts of control strategies, the Great Recession and weekday variations on NO ₂ columns above North American cities. <i>Atmospheric Environment</i> , 2016, 138, 74-86.	1.9	44
38	Relative impact of emissions controls and meteorology on air pollution mitigation associated with the Asia-Pacific Economic Cooperation (APEC) conference in Beijing, China. <i>Science of the Total Environment</i> , 2016, 571, 1467-1476.	3.9	83
39	Estimating sources of elemental and organic carbon and their temporal emission patterns using a least squares inverse model and hourly measurements from the St. Louis "Midwest supersite. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2405-2427.	1.9	25
40	Emissions of nitrogen oxides from US urban areas: estimation from Ozone Monitoring Instrument retrievals for 2005 "2014. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10367-10383.	1.9	94
41	Impact of regional transport on the anthropogenic and biogenic secondary organic aerosols in the Los Angeles Basin. <i>Atmospheric Environment</i> , 2015, 103, 171-179.	1.9	27
42	Estimates of power plant NO _x emissions and lifetimes from OMI NO ₂ satellite retrievals. <i>Atmospheric Environment</i> , 2015, 116, 1-11.	1.9	108
43	Origin of high particle number concentrations reaching the St. Louis, Midwest Supersite. <i>Journal of Environmental Sciences</i> , 2015, 34, 219-231.	3.2	14
44	Microseisms from Superstorm Sandy. <i>Earth and Planetary Science Letters</i> , 2014, 402, 324-336.	1.8	33
45	Estimation of direct emissions and atmospheric processing of reactive mercury using inverse modeling. <i>Atmospheric Environment</i> , 2014, 85, 73-82.	1.9	17
46	Model evaluation of methods for estimating surface emissions and chemical lifetimes from satellite data. <i>Atmospheric Environment</i> , 2014, 98, 66-77.	1.9	75
47	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11011-11029.	1.9	12
48	Emissions estimation from satellite retrievals: A review of current capability. <i>Atmospheric Environment</i> , 2013, 77, 1011-1042.	1.9	323
49	Identification of potential source areas for elevated PM _{2.5} , nitrate and sulfate concentrations. <i>Atmospheric Environment</i> , 2013, 71, 187-197.	1.9	21
50	Sources of metals and bromine-containing particles in Milwaukee. <i>Atmospheric Environment</i> , 2013, 73, 124-130.	1.9	13
51	The observed response of Ozone Monitoring Instrument (OMI) NO ₂ columns to NO _x emission controls on power plants in the United States: 2005 "2011. <i>Atmospheric Environment</i> , 2013, 81, 102-111.	1.9	99
52	Ozone Monitoring Instrument Observations of Interannual Increases in SO ₂ Emissions from Indian Coal-Fired Power Plants during 2005 "2012. <i>Environmental Science & Technology</i> , 2013, 47, 13993-14000.	4.6	113
53	Seasonal Variations of the Urban Heat Island at the Surface and the Near-Surface and Reductions due to Urban Vegetation in Mexico City. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 855-868.	0.6	113
54	Estimation of mercury emissions from forest fires, lakes, regional and local sources using measurements in Milwaukee and an inverse method. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8993-9011.	1.9	19

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55	Sources of nickel, vanadium and black carbon in aerosols in Milwaukee. <i>Atmospheric Environment</i> , 2012, 59, 294-301.	1.9	38
56	Aerosol plume transport and transformation in high spectral resolution lidar measurements and WRF-Flexpart simulations during the MILAGRO Field Campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3543-3563.	1.9	43
57	The oxidative potential and biological effects induced by PM10 obtained in Mexico City and at a receptor site during the MILAGRO Campaign. <i>Environmental Pollution</i> , 2011, 159, 3446-3454.	3.7	17
58	An overview of the MILAGRO 2006 Campaign: Mexico City emissions and their transport and transformation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8697-8760.	1.9	349
59	Black carbon over Mexico: the effect of atmospheric transport on mixing state, mass absorption cross-section, and BC/CO ratios. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 219-237.	1.9	140
60	Ozone response to emission changes: a modeling study during the MCMA-2006/MILAGRO Campaign. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3827-3846.	1.9	73
61	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5257-5280.	1.9	325
62	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (TO) – Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5315-5341.	1.9	182
63	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. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7137-7159.	1.9	25
64	Determination of particulate lead using aerosol mass spectrometry: MILAGRO/MCMA-2006 observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5371-5389.	1.9	48
65	Composition and variation of noise recorded at the Yellowknife Seismic Array, 1991–2007. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	59
66	Evaluation of WRF mesoscale simulations and particle trajectory analysis for the MILAGRO field campaign. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4419-4438.	1.9	59
67	Impact of primary formaldehyde on air pollution in the Mexico City Metropolitan Area. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2607-2618.	1.9	70
68	Mobile mini-DOAS measurement of the outflow of NO ₂ and HCHO from Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5647-5653.	1.9	56
69	In situ measurements of speciated atmospheric mercury and the identification of source regions in the Mexico City Metropolitan Area. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 207-220.	1.9	80
70	Tula industrial complex (Mexico) emissions of SO ₂ and NO ₂ during the MCMA 2006 field campaign using a mobile mini-DOAS system. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6351-6361.	1.9	63
71	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (TO) – Part 1: Fine particle composition and organic source apportionment. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6633-6653.	1.9	525
72	Hit from both sides: tracking industrial and volcanic plumes in Mexico City with surface measurements and OMI SO ₂ retrievals during the MILAGRO field campaign. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9599-9617.	1.9	96

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73	Correlation of secondary organic aerosol with odd oxygen in Mexico City. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	161
74	Seasonal Anisotropy in Short-Period Seismic Noise Recorded in South Asia. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 3033-3045.	1.1	57
75	Using 3DVAR data assimilation system to improve ozone simulations in the Mexico City basin. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7353-7366.	1.9	47
76	Spatial and temporal variability of particulate polycyclic aromatic hydrocarbons in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3093-3105.	1.9	40
77	Characterizing ozone production and response under different meteorological conditions in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7571-7581.	1.9	55
78	Basin-scale wind transport during the MILAGRO field campaign and comparison to climatology using cluster analysis. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1209-1224.	1.9	130
79	Measurement of ambient aerosols in northern Mexico City by single particle mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4499-4516.	1.9	257
80	Modelling constraints on the emission inventory and on vertical dispersion for CO and SO ₂ in the Mexico City Metropolitan Area using Solar FTIR and zenith sky UV spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 781-801.	1.9	82
81	Characterizing ozone production in the Mexico City Metropolitan Area: a case study using a chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1347-1366.	1.9	154
82	A meteorological overview of the MILAGRO field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2233-2257.	1.9	199
83	Air quality in North America's most populous city – overview of the MCMA-2003 campaign. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2447-2473.	1.9	286
84	Distribution, magnitudes, reactivities, ratios and diurnal patterns of volatile organic compounds in the Valley of Mexico during the MCMA 2002 & 2003 field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 329-353.	1.9	167
85	Developing intake fraction estimates with limited data: Comparison of methods in Mexico City. <i>Atmospheric Environment</i> , 2007, 41, 3672-3683.	1.9	29
86	Distinct wind convergence patterns in the Mexico City basin due to the interaction of the gap winds with the synoptic flow. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1249-1265.	1.9	58
87	Satellite-derived land surface parameters for mesoscale modelling of the Mexico City basin. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1315-1330.	1.9	51
88	Rapid ventilation of the Mexico City basin and regional fate of the urban plume. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2321-2335.	1.9	130
89	Aerosol composition and source apportionment in the Mexico City Metropolitan Area with PIXE/PESA/STIM and multivariate analysis. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4591-4600.	1.9	98
90	Mexico City basin wind circulation during the MCMA-2003 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2267-2288.	1.9	124

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91	Modeling Inorganic Aerosols and Their Response to Changes in Precursor Concentration in Mexico City. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 803-815.	0.9	15
92	The design of improved smoothing operators for finite volume flow solvers on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 36, 903-923.	0.9	1
93	Unstructured pressure-correction solver based on a consistent discretization of the Poisson equation. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 34, 463-478.	0.9	13