

William Vizquete

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,461
citations

236925

25
h-index

214800

47
g-index

78
all docs

78
docs citations

78
times ranked

3294
citing authors

#	ARTICLE	IF	CITATIONS
1	Particulate air pollutants, APOE alleles and their contributions to cognitive impairment in older women and to amyloidogenesis in experimental models. <i>Translational Psychiatry</i> , 2017, 7, e1022-e1022.	4.8	298
2	Epoxide as a precursor to secondary organic aerosol formation from isoprene photooxidation in the presence of nitrogen oxides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6718-6723.	7.1	266
3	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). <i>Environmental Science and Technology Letters</i> , 2018, 5, 167-174.	8.7	131
4	Particulate matter and episodic memory decline mediated by early neuroanatomic biomarkers of Alzheimer's disease. <i>Brain</i> , 2020, 143, 289-302.	7.6	126
5	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science & Technology</i> , 2019, 53, 8682-8694.	10.0	111
6	Heterogeneous Reactions of Isoprene-Derived Epoxides: Reaction Probabilities and Molar Secondary Organic Aerosol Yield Estimates. <i>Environmental Science and Technology Letters</i> , 2015, 2, 38-42.	8.7	89
7	A Voxel-Based Morphometry Study Reveals Local Brain Structural Alterations Associated with Ambient Fine Particles in Older Women. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 495.	2.0	87
8	Deciphering the Role of Radical Precursors during the Second Texas Air Quality Study. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 1258-1277.	1.9	65
9	Burden of disease attributed to anthropogenic air pollution in the United Arab Emirates: Estimates based on observed air quality data. <i>Science of the Total Environment</i> , 2010, 408, 5784-5793.	8.0	61
10	In Vitro Exposures in Diesel Exhaust Atmospheres: Resuspension of PM from Filters versus Direct Deposition of PM from Air. <i>Environmental Science & Technology</i> , 2012, 46, 9062-9070.	10.0	57
11	Gene Expression Profiling in Human Lung Cells Exposed to Isoprene-Derived Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 8166-8175.	10.0	53
12	Modeling the impacts of emission events on ozone formation in Houston, Texas. <i>Atmospheric Environment</i> , 2006, 40, 5329-5341.	4.1	52
13	Relationship between boundary layer heights and growth rates with ground-level ozone in Houston, Texas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6230-6245.	3.3	49
14	Constraining condensed-phase formation kinetics of secondary organic aerosol components from isoprene epoxydiols. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1245-1254.	4.9	46
15	Modeling ozone formation from industrial emission events in Houston, Texas. <i>Atmospheric Environment</i> , 2008, 42, 7641-7650.	4.1	45
16	Assessment of biological responses of EpiAirway 3-D cell constructs versus A549 cells for determining toxicity of ambient air pollution. <i>Inhalation Toxicology</i> , 2016, 28, 251-259.	1.6	43
17	Heterogeneous Hydroxyl Radical Oxidation of Isoprene-Epoxydiol-Derived Methyltetrol Sulfates: Plausible Formation Mechanisms of Previously Unexplained Organosulfates in Ambient Fine Aerosols. <i>Environmental Science and Technology Letters</i> , 2020, 7, 460-468.	8.7	43
18	The effect of variability in industrial emissions on ozone formation in Houston, Texas. <i>Atmospheric Environment</i> , 2007, 41, 9580-9593.	4.1	42

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19	Predicting secondary organic aerosol phase state and viscosity and its effect on multiphase chemistry in a regional-scale air quality model. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8201-8225.	4.9	42
20	Evaluation of simulated photochemical partitioning of oxidized nitrogen in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 275-291.	4.9	37
21	A modeling framework for characterizing near-road air pollutant concentration at community scales. <i>Science of the Total Environment</i> , 2015, 538, 905-921.	8.0	34
22	Bayesian Maximum Entropy Integration of Ozone Observations and Model Predictions: A National Application. <i>Environmental Science & Technology</i> , 2016, 50, 4393-4400.	10.0	34
23	Combining Bayesian methods and aircraft observations to constrain the HO ₂ + NO ₂ reaction rate. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 653-667.	4.9	33
24	Exposure to fine particulate matter and temporal dynamics of episodic memory and depressive symptoms in older women. <i>Environment International</i> , 2020, 135, 105196.	10.0	31
25	Nitrogen dioxide and allergic sensitization in the 2005–2006 National Health and Nutrition Examination Survey. <i>Respiratory Medicine</i> , 2013, 107, 1763-1772.	2.9	28
26	The Influence of Model Resolution on Ozone in Industrial Volatile Organic Compound Plumes. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 1105-1117.	1.9	27
27	Sesquiterpene Emissions and Secondary Organic Aerosol Formation Potentials for Southeast Texas Special Issue of <i>Aerosol Science and Technology</i> on Findings from the Fine Particulate Matter Supersites Program. <i>Aerosol Science and Technology</i> , 2004, 38, 167-181.	3.1	26
28	In vitro exposure to isoprene-derived secondary organic aerosol by direct deposition and its effects on COX-2 and IL-8 gene expression. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14079-14090.	4.9	26
29	Modeling secondary organic aerosol using a dynamic partitioning approach incorporating particle aqueous-phase chemistry. <i>Atmospheric Environment</i> , 2011, 45, 1126-1137.	4.1	25
30	Reductions in ozone concentrations due to controls on variability in industrial flare emissions in Houston, Texas. <i>Atmospheric Environment</i> , 2008, 42, 4198-4211.	4.1	24
31	The Gillings Sampler – An electrostatic air sampler as an alternative method for aerosol in vitro exposure studies. <i>Chemico-Biological Interactions</i> , 2014, 220, 158-168.	4.0	23
32	Regionalized PM _{2.5} Community Multiscale Air Quality model performance evaluation across a continuous spatiotemporal domain. <i>Atmospheric Environment</i> , 2017, 148, 258-265.	4.1	23
33	±-Pinene-Derived organic coatings on acidic sulfate aerosol impacts secondary organic aerosol formation from isoprene in a box model. <i>Atmospheric Environment</i> , 2019, 213, 456-462.	4.1	21
34	Leaf enclosure measurements for determining volatile organic compound emission capacity from Cannabis spp.. <i>Atmospheric Environment</i> , 2019, 199, 80-87.	4.1	19
35	PM _{2.5} Associated With Gray Matter Atrophy Reflecting Increased Alzheimer Risk in Older Women. <i>Neurology</i> , 2021, 96, .	1.1	19
36	Racial/Ethnic Disparities in Alzheimer's Disease Risk: Role of Exposure to Ambient Fine Particles. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 977-985.	3.6	19

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37	Comparisons of modeled and observed isoprene concentrations in southeast Texas. <i>Atmospheric Environment</i> , 2008, 42, 1922-1940.	4.1	18
38	Chemical Characteristics and Ozone Production in the Northern Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13397-13419.	3.3	18
39	Comparison of Lagrangian Process Analysis tools for Eulerian air quality models. <i>Atmospheric Environment</i> , 2011, 45, 5200-5211.	4.1	17
40	Application of a Lagrangian Process Analysis tool to characterize ozone formation in Southeast Texas. <i>Atmospheric Environment</i> , 2008, 42, 5743-5759.	4.1	16
41	Particulate Air Pollutants and Trajectories of Depressive Symptoms in Older Women. <i>American Journal of Geriatric Psychiatry</i> , 2019, 27, 1083-1096.	1.2	16
42	High Time to Assess the Environmental Impacts of Cannabis Cultivation. <i>Environmental Science & Technology</i> , 2017, 51, 2531-2533.	10.0	15
43	Erythrocyte omega-3 index, ambient fine particle exposure, and brain aging. <i>Neurology</i> , 2020, 95, e995-e1007.	1.1	15
44	Adherence to a MIND-Like Dietary Pattern, Long-Term Exposure to Fine Particulate Matter Air Pollution, and MRI-Based Measures of Brain Volume: The Women's Health Initiative Memory Study-MRI. <i>Environmental Health Perspectives</i> , 2021, 129, 127008.	6.0	14
45	Potential regional air quality impacts of cannabis cultivation facilities in Denver, Colorado. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13973-13987.	4.9	13
46	Implementation and refinement of a surface model for heterogeneous HONO formation in a 3-D chemical transport model. <i>Atmospheric Environment</i> , 2015, 112, 356-368.	4.1	12
47	Impacts of heterogeneous HONO formation on radical sources and ozone chemistry in Houston, Texas. <i>Atmospheric Environment</i> , 2015, 112, 344-355.	4.1	12
48	Issues with Ozone Attainment Methodology for Houston, TX. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 238-253.	1.9	11
49	Evaluation of model-predicted hazardous air pollutants (HAPs) near a mid-sized U.S. airport. <i>Atmospheric Environment</i> , 2015, 119, 107-117.	4.1	11
50	Evaluation of updated nitric acid chemistry on ozone precursors and radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5973-5986.	4.9	9
51	Impact of temporal upscaling and chemical transport model horizontal resolution on reducing ozone exposure misclassification. <i>Atmospheric Environment</i> , 2017, 166, 374-382.	4.1	9
52	Modeling secondary organic aerosol formation from xylene and aromatic mixtures using a dynamic partitioning approach incorporating particle aqueous-phase chemistry (II). <i>Atmospheric Environment</i> , 2012, 56, 250-260.	4.1	8
53	Assessment of a regulatory model's performance relative to large spatial heterogeneity in observed ozone in Houston, Texas. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 696-706.	1.9	7
54	A multisensor evaluation of the Asymmetric Convective Model, Version 2, in Southeast Texas. <i>Journal of the Air and Waste Management Association</i> , 2013, 63, 41-53.	1.9	7

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55	Assessment of SAPRC07 with updated isoprene chemistry against outdoor chamber experiments. Atmospheric Environment, 2015, 105, 109-120.	4.1	7
56	Identifying the Transcriptional Response of Cancer and Inflammation-Related Genes in Lung Cells in Relation to Ambient Air Chemical Mixtures in Houston, Texas. Environmental Science & Technology, 2020, 54, 13807-13816.	10.0	7
57	Houston's rapid ozone increases: preconditions and geographic origins. Environmental Chemistry, 2013, 10, 260.	1.5	7
58	Evaluation of Relative Response Factor Methodology for Demonstrating Attainment of Ozone in Houston, Texas. Journal of the Air and Waste Management Association, 2010, 60, 838-848.	1.9	6
59	From the Field to the Laboratory: Air Pollutant-Induced Genomic Effects in Lung Cells. Environmental Health Insights, 2015, 9s4, EHI.S15656.	1.7	6
60	Finely Resolved On-Road PM _{2.5} and Estimated Premature Mortality in Central North Carolina. Risk Analysis, 2017, 37, 2420-2434.	2.7	6
61	Evaluation of aromatic oxidation reactions in seven chemical mechanisms with an outdoor chamber. Environmental Chemistry, 2013, 10, 245.	1.5	6
62	B vitamin intakes modify the association between particulate air pollutants and incidence of all-cause dementia: Findings from the Women's Health Initiative Memory Study. Alzheimer's and Dementia, 2022, 18, 2188-2198.	0.8	6
63	Application of chemical vapor generation systems to deliver constant gas concentrations for <i>in vitro</i> exposure to volatile organic compounds. Environmental Sciences: Processes and Impacts, 2014, 16, 2703-2710.	3.5	5
64	Comparison of Highly Resolved Model-Based Exposure Metrics for Traffic-Related Air Pollutants to Support Environmental Health Studies. International Journal of Environmental Research and Public Health, 2015, 12, 15605-15625.	2.6	5
65	Ambient measurements of monoterpenes near Cannabis cultivation facilities in Denver, Colorado. Atmospheric Environment, 2020, 232, 117510.	4.1	5
66	Projecting wildfire emissions over the south-eastern United States to mid-century. International Journal of Wildland Fire, 2018, 27, 313.	2.4	4
67	Meteorological based parameters and ozone exceedances in Houston and other cities in Texas. Journal of the Air and Waste Management Association, 2022, , .	1.9	4
68	Modeled response of ozone to electricity generation emissions in the northeastern United States using three sensitivity techniques. Journal of the Air and Waste Management Association, 2016, 66, 456-469.	1.9	2
69	Evaluating wildfire emissions projection methods in comparisons of simulated and observed air quality. Atmospheric Chemistry and Physics, 2019, 19, 15157-15181.	4.9	1
70	Alternative fuels. , 2021, , 181-197.		1
71	Estimation of toxicity of airborne particulates. , 2021, , 111-125.		0
72	Wood fires: Domesticated. , 2021, , 129-145.		0

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73	The importance of being small (with apologies to Oscar Wilde). , 2021, , 59-75.		0
74	Ozone: Good high, bad nigh. , 2021, , 39-55.		0
75	A Multiscale Modeling Study to Assess Impacts of Full-Flight Aircraft Emissions on Upper Troposphere and Surface Air Quality. Springer Proceedings in Complexity, 2014, , 197-203.	0.3	0