Alberto Mendoza

List of Publications by Year
in descending order

51 papers	788 citations	516561 16 h-index	552653 26 g-index
53 all docs	53 docs citations	53 times ranked	1117 citing authors

#	Article	IF	Citations
1	Comparison of emissions from on-road sources using a mobile laboratory under various driving and operational sampling modes. Atmospheric Chemistry and Physics, 2009, 9, 1-14.	1.9	61
2	A tunnel study to characterize PM2.5 emissions from gasoline-powered vehicles in Monterrey, Mexico. Atmospheric Environment, 2012, 59, 449-460.	1.9	61
3	Secondary organic aerosol contributions to PM2.5 in Monterrey, Mexico: Temporal and seasonal variation. Atmospheric Research, 2015, 153, 348-359.	1.8	51
4	Recent Advances in Bifunctional Catalysts for the Fischerâ€“Tropsch Process: One-Stage Production of Liquid Hydrocarbons from Syngas. Industrial & Engineering Chemistry Research, 2019, 58, 15872-15901.	1.8	49
5	Synthesis, Purification, and Characterization of Carbon Dots from Non-Activated and Activated Pyrolytic Carbon Black. Nanomaterials, 2022, 12, 298.	1.9	49
6	Estimation of emission adjustments from the application of four-dimensional data assimilation to photochemical air quality modeling. Atmospheric Environment, 2001, 35, 2879-2894.	1.9	40
7	Organic composition and source apportionment of fine aerosol at Monterrey, Mexico, based on organic markers. Atmospheric Chemistry and Physics, 2016, 16, 953-970.	1.9	37
8	Iterative Inverse Modeling and Direct Sensitivity Analysis of a Photochemical Air Quality Model. Environmental Science & Technology, 2000, 34, 4974-4981.	4.6	33
9	Characterization of Chemically Activated Pyrolytic Carbon Black Derived from Waste Tires as a Candidate for Nanomaterial Precursor. Nanomaterials, 2020, 10, 2213.	1.9	32
10	Chemical characterization and factor analysis of PM_{2.5} in two sites of Monterrey, Mexico. Journal of the Air and Waste Management Association, 2012, 62, 817-827.	0.9	27
11	Diurnal and seasonal variation of volatile organic compounds inÂtheÂatmosphereÂof Monterrey, Mexico. Atmospheric Pollution Research, 2015, 6, 1073-1081.	1.8	25
12	Diurnal and seasonal variations of carbonyls and their effect on ozone concentrations in the atmosphere of Monterrey, Mexico. Journal of the Air and Waste Management Association, 2015, 65, 500-510.	0.9	23
13	Use of Combined Observational- and Model-Derived Photochemical Indicators to Assess the O3-NOx-VOC System Sensitivity in Urban Areas. Atmosphere, 2017, 8, 22.	1.0	23
14	A tunnel study to estimate emission factors from mobile sources in Monterrey, Mexico. Journal of the Air and Waste Management Association, 2012, 62, 1431-1442.	0.9	19
15	Spatial and Temporal Distribution of PM2.5 Pollution over Northeastern Mexico: Application of MERRA-2 Reanalysis Datasets. Remote Sensing, 2020, 12, 2286.	1.8	18
16	Ozone sensitivity to its precursor emissions in northeastern Mexico for a summer air pollution episode. Journal of the Air and Waste Management Association, 2013, 63, 1221-1233.	0.9	17
17	Thermogravimetric characterization and gasification of pecan nut shells. Bioresource Technology, 2015, 198, 634-641.	4.8	17
18	Fuel economy and emissions of light-duty vehicles fueled with ethanolâ€“gasoline blends in a Mexican City. Renewable Energy, 2014, 72, 236-242.	4.3	15

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19	Observed trends in ground-level O₃ in Monterrey, Mexico, during 1993â€“2014: comparison with Mexico City and Guadalajara. Atmospheric Chemistry and Physics, 2017, 17, 9163-9185.	1.9	15
20	Modeling and Direct Sensitivity Analysis of Biogenic Emissions Impacts on Regional Ozone Formation in the Mexico-U.S. Border Area. Journal of the Air and Waste Management Association, 2000, 50, 21-31.	0.9	14
21	Trace Gases and Particulate Matter Emissions from Wildfires and Agricultural Burning in Northeastern Mexico during the 2000 Fire Season. Journal of the Air and Waste Management Association, 2005, 55, 1797-1808.	0.9	14
22	Spatial differences in ambient coarse and fine particles in the Monterrey metropolitan area, Mexico: Implications for source contribution. Journal of the Air and Waste Management Association, 2019, 69, 548-564.	0.9	14
23	Emission Strength Validation Using Four-Dimensional Data Assimilation: Application to Primary Aerosol and Precursors to Ozone and Secondary Aerosol. Journal of the Air and Waste Management Association, 2001, 51, 1538-1550.	0.9	12
24	Chemical Characterization and Preliminary Source Contribution of Fine Particulate Matter in the Mexicali/Imperial Valley Border Area. Journal of the Air and Waste Management Association, 2010, 60, 258-270.	0.9	12
25	Assessment of air quality monitoring networks using an ensemble clustering method in the three major metropolitan areas of Mexico. Atmospheric Pollution Research, 2020, 11, 1271-1280.	1.8	12
26	Dust emission modeling for the western border region of Mexico and the USA. Environmental Earth Sciences, 2015, 74, 1687-1697.	1.3	11
27	Environmental Levels, Sources, and Cancer Risk Assessment of PAHs Associated with PM2.5 and TSP in Monterrey Metropolitan Area. Archives of Environmental Contamination and Toxicology, 2020, 78, 377-391.	2.1	10
28	Carbonyls in the urban atmosphere of Monterrey, Mexico: sources, exposure, and health risk. Air Quality, Atmosphere and Health, 2017, 10, 53-67.	1.5	8
29	Mesoscale Meteorological Simulations of Summer Ozone Episodes in Mexicali and Monterrey, Mexico: Analysis of Model Sensitivity to Grid Resolution and Parameterization Schemes. Water, Air and Soil Pollution, 2009, 9, 185-202.	0.8	7
30	Assessment of the Reduction in Vehicles Emissions by Implementing Inspection and Maintenance Programs. International Journal of Environmental Research and Public Health, 2020, 17, 4730.	1.2	7
31	Sequential SEM-EDS, PLM, and MRS Microanalysis of Individual Atmospheric Particles: A Useful Tool for Assigning Emission Sources. Toxics, 2021, 9, 37.	1.6	7
32	Health impacts of power-exporting plants in northern Mexico. Energy Policy, 2012, 44, 34-45.	4.2	6
33	Determination and Similarity Analysis of PM2.5 Emission Source Profiles Based on Organic Markers for Monterrey, Mexico. Atmosphere, 2021, 12, 554.	1.0	5
34	Evaluation of MODIS Aerosol Optical Depth and Surface Data Using an Ensemble Modeling Approach to Assess PM2.5 Temporal and Spatial Distributions. Remote Sensing, 2021, 13, 3102.	1.8	5
35	A Methodology for Designing Smart Urban Living Labs from the University for the Cities of the Future. Sensors, 2021, 21, 6712.	2.1	5
36	Application of direct regularization techniques and boundedâ€“variable least squares for inverse modeling of an urban emissions inventory. Atmospheric Pollution Research, 2014, 5, 219-225.	1.8	4

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37	Increasing Weekend Effect in Ground-Level O3 in Metropolitan Areas of Mexico during 1988â€“2016. Sustainability, 2018, 10, 3330.	1.6	4
38	Diurnal, seasonal, and annual trends in tropospheric CO in Southwest London during 2000â€“2015: Wind sector analysis and comparisons with urban and remote sites. Atmospheric Environment, 2018, 177, 262-274.	1.9	3
39	Explicit Modeling of Meteorological Explanatory Variables in Short-Term Forecasting of Maximum Ozone Concentrations via a Multiple Regression Time Series Framework. Atmosphere, 2020, 11, 1304.	1.0	3
40	Potential environmental impact of I/M Programs in Urban Centers based on RSD monitoring campaigns. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012015.	0.2	2
41	Valorization of Waste Tires by Pyrolysis and Activation Processes. Applied Sciences (Switzerland), 2021, 11, 6342.	1.3	2
42	Performance of a Semi-Industrial Scale Gasification Process for the Destruction of Polychlorinated Biphenyls. Journal of the Air and Waste Management Association, 2006, 56, 1599-1606.	0.9	1
43	Emissions of Light-Duty Vehicles with Respect to Cruising Speed under Real-World Driving Conditions. Journal of Environmental Engineering, ASCE, 2015, 141, 04015004.	0.7	1
44	Chemical Composition, Optical Properties and Sources of PM2.5 From a Highly Urbanized Region in Northeastern Mexico. Frontiers in Environmental Science, 0, 10, .	1.5	1
45	Emissions Inventory Estimation Improvements using a Four-Dimensional Data Assimilation Method for Photochemical Air Quality Modeling. , 2004, , 531-540.		0
46	Sequential Collective Microanalysis (SCM) Applied on the Characterization of Atmospheric Carbonaceous Particulate Materials Collected in the Metropolitan Area of Monterrey, in MÃ©xico. Microscopy and Microanalysis, 2019, 25, 820-821.	0.2	0
47	Application of partial least squares as a complementary and preliminary receptor model for source apportionment of ambient aerosol based on molecular organic markers. Journal of Chemometrics, 2019, 33, e3136.	0.7	0
48	Identification of air quality redundant stations through a clustering ensemble method. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012019.	0.2	0
49	Time series forecasting of ozone levels in the Metropolitan Area of Monterrey, Mexico. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012020.	0.2	0
50	Historical Context and Present Energy Use in the Global Economy. Strategies for Sustainability, 2022, , 1-29.	0.2	0
51	Modeling the Dynamics of Air Pollutants: Trans-Boundary Impacts in the Mexicali-Imperial Valley Border Region. , 0, , .		0