

Avelino F Arellano

List of Publications by Year in descending order

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55
papers

4,561
citations

172207

29
h-index

161609

54
g-index

70
all docs

70
docs citations

70
times ranked

5951
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring analog-based schemes for aerosol optical depth forecasting with WRF-Chem. Atmospheric Environment, 2021, 246, 118134.	1.9	4
2	Measurement report: Firework impacts on air quality in Metro Manila, Philippines, during the 2019 New Year revelry. Atmospheric Chemistry and Physics, 2021, 21, 6155-6173.	1.9	14
3	The Impact of Assimilating GPS Precipitable Water Vapor in Convective-Permitting WRF-ARW on North American Monsoon Precipitation Forecasts over Northwest Mexico. Monthly Weather Review, 2021, , .	0.5	10
4	Model Sensitivity Study of the Direct Radiative Impact of Saharan Dust on the Early Stage of Hurricane Earl. Atmosphere, 2021, 12, 1181.	1.0	2
5	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). Bulletin of the American Meteorological Society, 2020, 101, E1743-E1760.	1.7	21
6	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. Atmospheric Chemistry and Physics, 2020, 20, 14617-14647.	1.9	34
7	Satellite data reveal a common combustion emission pathway for major cities in China. Atmospheric Chemistry and Physics, 2019, 19, 4269-4288.	1.9	15
8	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-Chem Model Applications. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2796-2822.	1.2	21
9	Evaluating Forecast Skills of Moisture from Convective-Permitting WRF-ARW Model during 2017 North American Monsoon Season. Atmosphere, 2019, 10, 694.	1.0	14
10	Unexpected slowdown of US pollutant emission reduction in the past decade. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5099-5104.	3.3	137
11	The Risks of Contracting the Acquisition and Processing of the Nation's Weather and Climate Data to the Private Sector. Bulletin of the American Meteorological Society, 2018, 99, 869-870.	1.7	6
12	Evaluation of a Data Assimilation System for Land Surface Models Using CLM4.5. Journal of Advances in Modeling Earth Systems, 2018, 10, 2471-2494.	1.3	54
13	Convective-Permitting Hindcast Simulations during the North American Monsoon GPS Transect Experiment 2013: Establishing Baseline Model Performance without Data Assimilation. Journal of Applied Meteorology and Climatology, 2018, 57, 1683-1710.	0.6	9
14	Evaluating high-resolution forecasts of atmospheric CO and CO_2 from a global prediction system during KORUS-AQ field campaign. Atmospheric Chemistry and Physics, 2018, 18, 11007-11030.	1.9	35
15	The CHRONOS mission: capability for sub-hourly synoptic observations of carbon monoxide and methane to quantify emissions and transport of air pollution. Atmospheric Measurement Techniques, 2018, 11, 1061-1085.	1.2	3
16	Investigating dominant characteristics of fires across the Amazon during 2005-2014 through satellite data synthesis of combustion signatures. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1224-1245.	1.2	16
17	Spatial and Temporal Variations in Characteristic Ratios of Elemental Carbon to Carbon Monoxide and Nitrogen Oxides across the United States. Environmental Science & Technology, 2017, 51, 6829-6838.	4.6	2
18	Chemical Feedback From Decreasing Carbon Monoxide Emissions. Geophysical Research Letters, 2017, 44, 9985-9995.	1.5	49

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19	A 15-year record of CO emissions constrained by MOPITT CO observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4565-4583.	1.9	92
20	Characterizing Regional-Scale Combustion Using Satellite Retrievals of CO, NO ₂ and CO ₂ . <i>Remote Sensing</i> , 2017, 9, 744.	1.8	34
21	Evaluating the effect of alternative carbon allocation schemes in a land surface model (CLM4.5) on carbon fluxes, pools, and turnover in temperate forests. <i>Geoscientific Model Development</i> , 2017, 10, 3499-3517.	1.3	32
22	Assimilating compact phase space retrievals of atmospheric composition with WRF-Chem/DART: a regional chemical transport/ensemble Kalman filter data assimilation system. <i>Geoscientific Model Development</i> , 2016, 9, 965-978.	1.3	26
23	Frequency and Character of Extreme Aerosol Events in the Southwestern United States: A Case Study Analysis in Arizona. <i>Atmosphere</i> , 2016, 7, 1.	1.0	62
24	Decreasing Aerosol Loading in the North American Monsoon Region. <i>Atmosphere</i> , 2016, 7, 24.	1.0	10
25	Toward a chemical reanalysis in a coupled chemistry-climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7310-7343.	1.2	37
26	The North American Monsoon GPS Transect Experiment 2013. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2103-2115.	1.7	17
27	On the feasibility of monitoring carbon monoxide in the lower troposphere from a constellation of northern hemisphere geostationary satellites: Global scale assimilation experiments (Part II). <i>Atmospheric Environment</i> , 2016, 140, 188-201.	1.9	7
28	Assessing the impacts of assimilating IASI and MOPITT CO retrievals using CESM-CAM-chem and DART. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,501.	1.2	21
29	The Amazon Dense GNSS Meteorological Network: A New Approach for Examining Water Vapor and Deep Convection Interactions in the Tropics. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 2151-2165.	1.7	44
30	Translating aboveground cosmic-ray neutron intensity to high-frequency soil moisture profiles at sub-kilometer scale. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4363-4379.	1.9	46
31	Revisiting haboobs in the southwestern United States: An observational case study of the 5 July 2011 Phoenix dust storm. <i>Atmospheric Environment</i> , 2014, 89, 179-188.	1.9	35
32	Spatiotemporal distribution of airborne particulate metals and metalloids in a populated arid region. <i>Atmospheric Environment</i> , 2014, 92, 339-347.	1.9	51
33	Evidence of aqueous secondary organic aerosol formation from biogenic emissions in the North American Sonoran Desert. <i>Geophysical Research Letters</i> , 2013, 40, 3468-3472.	1.5	44
34	Averaging kernel prediction from atmospheric and surface state parameters based on multiple regression for nadir-viewing satellite measurements of carbon monoxide and ozone. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1633-1646.	1.2	21
35	Toward anthropogenic combustion emission constraints from space-based analysis of urban CO ₂ /CO sensitivity. <i>Geophysical Research Letters</i> , 2013, 40, 4971-4976.	1.5	59
36	Biomass Burning: Observations, Modeling, and Data Assimilation. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, ES10-ES14.	1.7	6

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37	Measurements of atmospheric mercury in Shanghai during September 2009. Atmospheric Chemistry and Physics, 2011, 11, 3781-3788.	1.9	46
38	Variability of springtime transpacific pollution transport during 2000â€“2006: the INTEX-B mission in the context of previous years. Atmospheric Chemistry and Physics, 2010, 10, 1345-1359.	1.9	22
39	Constraints on black carbon aerosol distribution from Measurement of Pollution in the Troposphere (MOPITT) CO. Geophysical Research Letters, 2010, 37, .	1.5	9
40	Initial Estimates of Mercury Emissions to the Atmosphere from Global Biomass Burning. Environmental Science & Technology, 2009, 43, 3507-3513.	4.6	137
41	The Data Assimilation Research Testbed: A Community Facility. Bulletin of the American Meteorological Society, 2009, 90, 1283-1296.	1.7	497
42	A satellite observation system simulation experiment for carbon monoxide in the lowermost troposphere. Journal of Geophysical Research, 2009, 114, .	3.3	50
43	Mercury emissions from global biomass burning: spatial and temporal distribution. , 2009, , 193-220.		17
44	Interpolating fields of carbon monoxide data using a hybrid statistical-physical model. Annals of Applied Statistics, 2008, 2, .	0.5	12
45	Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission. Atmospheric Chemistry and Physics, 2007, 7, 5695-5710.	1.9	53
46	Sensitivity of global CO simulations to uncertainties in biomass burning sources. Journal of Geophysical Research, 2007, 112, .	3.3	47
47	Time-dependent inversion estimates of global biomass-burning CO emissions using Measurement of Pollution in the Troposphere (MOPITT) measurements. Journal of Geophysical Research, 2006, 111, .	3.3	94
48	Sensitivity of top-down estimates of CO sources to GCTM transport. Geophysical Research Letters, 2006, 33, .	1.5	45
49	Interannual variability in global biomass burning emissions from 1997 to 2004. Atmospheric Chemistry and Physics, 2006, 6, 3423-3441.	1.9	1,573
50	Continental-Scale Partitioning of Fire Emissions During the 1997 to 2001 El Nino/La Nina Period. Science, 2004, 303, 73-76.	6.0	549
51	Top-down estimates of global CO sources using MOPITT measurements. Geophysical Research Letters, 2004, 31, .	1.5	122
52	Correction to â€œTop-down estimates of global CO sources using MOPITT measurementsâ€œ. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	4
53	Application of DARLAM to Regional Haze Modeling. Pure and Applied Geophysics, 2003, 160, 189-204.	0.8	3
54	Top-down estimate of a large source of atmospheric carbon monoxide associated with fuel combustion in Asia. Geophysical Research Letters, 2002, 29, 6-1-6-4.	1.5	84

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55	Investigating the haze transport from 1997 biomass burning in Southeast Asia: its impact upon Singapore. Atmospheric Environment, 2001, 35, 2723-2734.	1.9	103