

Omar Torres

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54 papers	8,160 citations	30 h-index	56 g-index
56 ext. papers	9,042 ext. citations	4.9 avg, IF	5.64 L-index

#	Paper	IF	Citations
54	ENVIRONMENTAL CHARACTERIZATION OF GLOBAL SOURCES OF ATMOSPHERIC SOIL DUST IDENTIFIED WITH THE NIMBUS 7 TOTAL OZONE MAPPING SPECTROMETER (TOMS) ABSORBING AEROSOL PRODUCT. <i>Reviews of Geophysics</i> , 2002 , 40, 2-1	23.1	2000
53	Tropospheric Aerosol Optical Thickness from the GOCART Model and Comparisons with Satellite and Sun Photometer Measurements. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 461-483	2.1	1004
52	Global distribution of UV-absorbing aerosols from Nimbus 7/TOMS data. <i>Journal of Geophysical Research</i> , 1997 , 102, 16911-16922		860
51	Derivation of aerosol properties from satellite measurements of backscattered ultraviolet radiation: Theoretical basis. <i>Journal of Geophysical Research</i> , 1998 , 103, 17099-17110		731
50	Aerosols and surface UV products from Ozone Monitoring Instrument observations: An overview. <i>Journal of Geophysical Research</i> , 2007 , 112,		585
49	Long-term simulation of global dust distribution with the GOCART model: correlation with North Atlantic Oscillation. <i>Environmental Modelling and Software</i> , 2004 , 19, 113-128	5.2	353
48	Validation of the Saharan Dust Plume Conceptual Model Using Lidar, Meteosat, and ECMWF Data. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 1045-1075	6.1	297
47	Comparisons of the TOMS aerosol index with Sun-photometer aerosol optical thickness: Results and applications. <i>Journal of Geophysical Research</i> , 1999 , 104, 6269-6279		232
46	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39	2.1	163
45	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5699-5745	6.8	163
44	Improvements to the OMI near-UV aerosol algorithm using A-train CALIOP and AIRS observations. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3257-3270	4	146
43	Using the OMI aerosol index and absorption aerosol optical depth to evaluate the NASA MERRA Aerosol Reanalysis. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5743-5760	6.8	130
42	An A-Train Strategy for Quantifying Direct Climate Forcing by Anthropogenic Aerosols. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1795-1810	6.1	119
41	Retrieval of Aerosol Optical Depth above Clouds from OMI Observations: Sensitivity Analysis and Case Studies. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 1037-1053	2.1	110
40	Comparison of Ozone Monitoring Instrument UV Aerosol Products with Aqua/Moderate Resolution Imaging Spectroradiometer and Multiangle Imaging Spectroradiometer observations in 2006. <i>Journal of Geophysical Research</i> , 2008 , 113,		86
39	Assessment of OMI near-UV aerosol optical depth over land. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2457-2473	4.4	83
38	Global assessment of OMI aerosol single-scattering albedo using ground-based AERONET inversion. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9020-9040	4.4	81

37	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1-E22	6.1	81
36	Satellite-based evidence of wavelength-dependent aerosol absorption in biomass burning smoke inferred from Ozone Monitoring Instrument. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10541-10551	6.8	78
35	Earth Observations from DSCOVR/EPIC Instrument. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1829-1850	6.1	72
34	Impacts of brown carbon from biomass burning on surface UV and ozone photochemistry in the Amazon Basin. <i>Scientific Reports</i> , 2016 , 6, 36940	4.9	68
33	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 3862-3870	8.1	63
32	Impact of the ozone monitoring instrument row anomaly on the long-term record of aerosol products. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2701-2715	4	55
31	Passive remote sensing of altitude and optical depth of dust plumes using the oxygen A and B bands: first results from EPIC/DSCOVR at Lagrange-1 point. <i>Geophysical Research Letters</i> , 2017 , 44, 7544-7554	4.9	53
30	Comparison of TOMS and AVHRR volcanic ash retrievals from the August 1992 eruption of Mt. Spurr. <i>Geophysical Research Letters</i> , 1999 , 26, 455-458	4.9	52
29	Inverse modeling of biomass burning emissions using Total Ozone Mapping Spectrometer aerosol index for 1997. <i>Journal of Geophysical Research</i> , 2005 , 110,		37
28	Stratospheric Injection of Massive Smoke Plume From Canadian Boreal Fires in 2017 as Seen by DSCOVR-EPIC, CALIOP, and OMPS-LP Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032579	4.4	36
27	OMI tropospheric NO ₂ ; air mass factors over South America: effects of biomass burning aerosols. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3831-3849	4	36
26	Stratospheric impact of the Chisholm pyrocumulonimbus eruption: 1. Earth-viewing satellite perspective. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
25	Constraining black carbon aerosol over Asia using OMI aerosol absorption optical depth and the adjoint of GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10281-10308	6.8	33
24	Detecting layer height of smoke aerosols over vegetated land and water surfaces via oxygen absorption bands: hourly results from EPIC/DSCOVR in deep space. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3269-3288	4	26
23	Early calibration problems detected in TOMS Earth-Probe aerosol signal. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	26
22	Direct radiative effect of aerosols based on PARASOL and OMI satellite observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2366-2388	4.4	25
21	Temporal Characterization of Dust Activity in the Central Patagonia Desert (Years 1964-2017). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 3417-3434	4.4	23
20	Insight into global trends in aerosol composition from 2005 to 2015 inferred from the OMI Ultraviolet Aerosol Index. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8097-8112	6.8	20

19	Simulation of the transport, vertical distribution, optical properties and radiative impact of smoke aerosols with the ALADIN regional climate model during the ORACLES-2016 and LASIC experiments. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4963-4990	6.8	19
18	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	19
17	What factors control the trend of increasing AAOD over the United States in the last decade?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1797-1810	4.4	16
16	A 12-year long global record of optical depth of absorbing aerosols above the clouds derived from the OMI/OMACA algorithm. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 5837-5864	4	16
15	Validating MODIS above-cloud aerosol optical depth retrieved from Polar ratio algorithm using direct measurements made by NASA's airborne AATS and 4STAR sensors. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5053-5062	4	15
14	Simulation of the Ozone Monitoring Instrument aerosol index using the NASA Goddard Earth Observing System aerosol reanalysis products. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4121-4134	4.4	14
13	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	14
12	TROPOMI aerosol products: evaluation and observations of synoptic-scale carbonaceous aerosol plumes during 2018-2020. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6789-6806	4	13
11	The role of cloud contamination, aerosol layer height and aerosol model in the assessment of the OMI near-UV retrievals over the ocean. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3031-3052	4	13
10	The long-term transport and radiative impacts of the 2017 British Columbia pyrocumulonimbus smoke aerosols in the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12069-12090	6.8	12
9	Improvements to the OMI near UV aerosol algorithm using A-train CALIOP and AIRS observations		10
8	Simulation of Optical Properties and Direct and Indirect Radiative Effects of Smoke Aerosols Over Marine Stratocumulus Clouds During Summer 2008 in California With the Regional Climate Model RegCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,312-10,337	4.4	8
7	Evaluation of the OMPS/LP stratospheric aerosol extinction product using SAGE III/ISS observations. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3471-3485	4	7
6	AEROCOM and AEROSAT AAOD and SSA study [Part I]: Evaluation and intercomparison of satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6895-6917	6.8	5
5	Retrievals of Aerosol Optical Depth and Spectral Absorption From DSCOVR EPIC. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	4
4	Explicit Aerosol Correction of OMI Formaldehyde Retrievals. <i>Earth and Space Science</i> , 2019 , 6, 2087-2105	3.1	4
3	Tracking aerosols and SO ₂ clouds from the Raikoke eruption: 3D view from satellite observations. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 7545-7563	4	4
2	Evaluation of Aerosol Properties Observed by DSCOVR/EPIC Instrument From the Earth-Sun Lagrange 1 Orbit. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033651	4.4	3

1	Hourly Mapping of the Layer Height of Thick Smoke Plumes Over the Western U.S. in 2020 Severe Fire Season. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	2
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