Sara Martinez-Alonso

List of Publications by Year
in descending order

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29 papers	1,624 citations	394421 19 h-index	477307 29 g-index
44 all docs	44 docs citations	44 times ranked	2106 citing authors

#	Article	IF	Citations
1	Decadal record of satellite carbon monoxide observations. Atmospheric Chemistry and Physics, 2013, 13, 837-850.	4.9	207
2	A Closer Look at Water-Related Geologic Activity on Mars. Science, 2007, 317, 1706-1709.	12.6	185
3	The High Resolution Imaging Science Experiment (HiRISE) during MROâ€™s Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	2.5	153
4	Validation of MOPITT Version 5 thermalâ€infrared, nearâ€infrared, and multispectral carbon monoxide profile retrievals for 2000â€“2011. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6710-6725.	3.3	119
5	New and recent gully activity on Mars as seen by HiRISE. Geophysical Research Letters, 2010, 37, .	4.0	105
6	The MOPITT Version 6 product: algorithm enhancements and validation. Atmospheric Measurement Techniques, 2014, 7, 3623-3632.	3.1	92
7	Windy Mars: A dynamic planet as seen by the HiRISE camera. Geophysical Research Letters, 2007, 34, .	4.0	78
8	Hydrovolcanic features on Mars: Preliminary observations from the first Mars year of HiRISE imaging. Icarus, 2010, 205, 211-229.	2.5	78
9	A climate-scale satellite record for carbon monoxide: the MOPITT Version 7 product. Atmospheric Measurement Techniques, 2017, 10, 2533-2555.	3.1	69
10	Radiance-based retrieval bias mitigation for the MOPITT instrument: the version 8 product. Atmospheric Measurement Techniques, 2019, 12, 4561-4580.	3.1	60
11	A volcanic interpretation of Gusev Crater surface materials from thermophysical, spectral, and morphological evidence. Journal of Geophysical Research, 2005, 110, .	3.3	52
12	Ab initio quantum mechanical modeling of infrared vibrational frequencies of the OH group in dioctahedral phyllosilicates. Part II: Main physical factors governing the OH vibrations. American Mineralogist, 2002, 87, 1224-1234.	1.9	49
13	Chemical Feedback From Decreasing Carbon Monoxide Emissions. Geophysical Research Letters, 2017, 44, 9985-9995.	4.0	49
14	Air pollution trends measured from Terra: CO and AOD over industrial, fire-prone, and background regions. Remote Sensing of Environment, 2021, 256, 112275.	11.0	41
15	Toward a chemical reanalysis in a coupled chemistryâ€climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7310-7343.	3.3	37
16	Evidence of volcanic and glacial activity in Chryse and Acidalia Planitiae, Mars. Icarus, 2011, 212, 597-621.	2.5	32
17	Ab initio quantum mechanical modeling of infrared vibrational frequencies of the OH group in dioctahedral phyllosilicates. Part I: Methods, results and comparison to experimental data. American Mineralogist, 2002, 87, 1215-1223.	1.9	29
18	1.5Âyears of TROPOMI CO measurements: comparisons to MOPITT and ATom. Atmospheric Measurement Techniques, 2020, 13, 4841-4864.	3.1	29

#	Article	IF	Citations
19	Quantification of CO emissions from the city of Madrid using MOPITT satellite retrievals and WRF simulations. Atmospheric Chemistry and Physics, 2017, 17, 14675-14694.	4.9	21
20	Thermophysical properties of the MER and Beagle II landing site regions on Mars. Journal of Geophysical Research, 2006, 111, .	3.3	19
21	Validation and analysis of MOPITT CO observations of the Amazon Basin. Atmospheric Measurement Techniques, 2016, 9, 3999-4012.	3.1	19
22	13 years of MOPITT operations: lessons from MOPITT retrieval algorithm development. Annals of Geophysics, 2014, , .	1.0	18
23	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. Atmospheric Measurement Techniques, 2020, 13, 1337-1356.	3.1	16
24	Satellite-Based Analysis of CO Seasonal and Interannual Variability Over the Amazon Basin. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5641-5656.	3.3	15
25	The MOPITT Version 9 CO product: sampling enhancements and validation. Atmospheric Measurement Techniques, 2022, 15, 2325-2344.	3.1	14
26	Comparison of upper tropospheric carbon monoxide from MOPITT, ACEâ€FTS, and HIPPOâ€QCLS. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,144.	3.3	9
27	First satellite identification of volcanic carbon monoxide. Geophysical Research Letters, 2012, 39, .	4.0	8
28	Impacts of MOPITT cloud detection revisions on observation frequency and mapping of highly polluted scenes. Remote Sensing of Environment, 2021, 262, 112516.	11.0	8
29	Mapping compositional diversity on the surface of Mars: The Spectral Variance Index. Journal of Geophysical Research, 2006, 111, .	3.3	7