

Bruno Franco

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,520
citations

361413

20
h-index

414414

32
g-index

55
all docs

55
docs citations

55
times ranked

2376
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the Greenland ice sheet surface mass balance contribution to future sea level rise using the regional atmospheric climate model MAR. Cryosphere, 2013, 7, 469-489.	3.9	325
2	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. Nature Geoscience, 2016, 9, 490-495.	12.9	149
3	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
4	Evaluating ethane and methane emissions associated with the development of oil and natural gas extraction in North America. Environmental Research Letters, 2016, 11, 044010.	5.2	82
5	Future projections of the Greenland ice sheet energy balance driving the surface melt. Cryosphere, 2013, 7, 1-18.	3.9	74
6	Impact of spatial resolution on the modelling of the Greenland ice sheet surface mass balance between 1990–2010, using the regional climate model MAR. Cryosphere, 2012, 6, 695-711.	3.9	71
7	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. Nature, 2021, 593, 233-237.	27.8	71
8	Global, regional and national trends of atmospheric ammonia derived from a decadal (2008–2018) satellite record. Environmental Research Letters, 2021, 16, 055017.	5.2	65
9	The chemistry–climate model ECHAM6.3-HAM2.3-MOZ1.0. Geoscientific Model Development, 2018, 11, 1695-1723.	3.6	51
10	Revisiting global fossil fuel and biofuel emissions of ethane. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2493-2512.	3.3	43
11	Retrievals of formaldehyde from ground-based FTIR and MAX-DOAS observations at the Jungfraujoch station and comparisons with GEOS-Chem and IMAGES model simulations. Atmospheric Measurement Techniques, 2015, 8, 1733-1756.	3.1	38
12	A General Framework for Global Retrievals of Trace Gases From IASI: Application to Methanol, Formic Acid, and PAN. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,963.	3.3	38
13	Retrieval of ammonia from ground-based FTIR solar spectra. Atmospheric Chemistry and Physics, 2015, 15, 12789-12803.	4.9	32
14	Retrieval of ethane from ground-based FTIR solar spectra using improved spectroscopy: Recent burden increase above Jungfraujoch. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 160, 36-49.	2.3	32
15	A Decadal Data Set of Global Atmospheric Dust Retrieved From IASI Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1618-1647.	3.3	32
16	Present and future climates of the Greenland ice sheet according to the IPCC AR4 models. Climate Dynamics, 2011, 36, 1897-1918.	3.8	29
17	Self-broadening coefficients and improved line intensities for the ν_2 band of ethylene near ν_4 and impact on ethylene retrievals from Jungfraujoch solar spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 148, 177-185.	2.3	28
18	Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations. Atmospheric Chemistry and Physics, 2016, 16, 10911-10925.	4.9	28

#	ARTICLE	IF	CITATIONS
19	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033475.	3.3	28
20	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086239.	4.0	21
21	Acetone Atmospheric Distribution Retrieved From Space. <i>Geophysical Research Letters</i> , 2019, 46, 2884-2893.	4.0	18
22	Diurnal cycle and multi-decadal trend of formaldehyde in the remote atmosphere near 46°N. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4171-4189.	4.9	17
23	Atmospheric Impacts of COVID-19 on NO _x and VOC Levels over China Based on TROPOMI and IASI Satellite Data and Modeling. <i>Atmosphere</i> , 2021, 12, 946.	2.3	13
24	Simulation of organics in the atmosphere: evaluation of EMACv2.54 with the Mainz Organic Mechanism (MOM) coupled to the ORACLE (v1.0) submodel. <i>Geoscientific Model Development</i> , 2022, 15, 2673-2710.	3.6	13
25	Atmospheric Implications of Large C ₂ -C ₅ Alkane Emissions From the U.S. Oil and Gas Industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1148-1169.	3.3	12
26	Estimation of the Sea Level Rise by 2100 Resulting from Changes in the Surface Mass Balance of the Greenland Ice Sheet. , 0, , .		11
27	The Diel Cycle of NH ₃ Observed From the FY-4A Geostationary Interferometric Infrared Sounder (GIIRS). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093010.	4.0	11
28	Identification of Short and Long-Lived Atmospheric Trace Gases From IASI Space Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091742.	4.0	9
29	The impact of organic pollutants from Indonesian peatland fires on the tropospheric and lower stratospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11257-11288.	4.9	8
30	A statistical analysis of time trends in atmospheric ethane. <i>Climatic Change</i> , 2020, 162, 105-125.	3.6	7
31	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. <i>Elementa</i> , 2021, 9, .	3.2	7
32	Oxidation of low-molecular-weight organic compounds in cloud droplets: global impact on tropospheric oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9909-9930.	4.9	7
33	Long-term evolution and seasonal modulation of methanol above Jungfraujoch (46.5° N, 8.0° E): optimisation of the retrieval strategy, comparison with model simulations and independent observations. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3861-3872.	3.1	5
34	Atmospheric Composition Applications with IASI and next-generation hyperspectral infrared sounders (IASI-NG and IRS). , 2021, , .		1