

Fabrizio Sassi

List of Publications by Year in descending order

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66
papers

5,972
citations

117571

34
h-index

106281

65
g-index

69
all docs

69
docs citations

69
times ranked

3880
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the impact of middle atmosphere observations on day-to-day variability in lower thermospheric winds using WACCM-X. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 212, 105486.	0.6	7
2	Two- and three-dimensional structures of the descent of mesospheric trace constituents after the 2013 sudden stratospheric warming elevated stratopause event. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14059-14077.	1.9	5
3	Intercomparison of middle atmospheric meteorological analyses for the Northern Hemisphere winter 2009–2010. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17577-17605.	1.9	9
4	Day-to-day variability of the bottomside ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 205, 105299.	0.6	8
5	The Effects of Vertically Propagating Tides on the Mean Dynamical Structure of the Lower Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7202-7219.	0.8	7
6	Whole Atmosphere Coupling on Intraseasonal and Interseasonal Time Scales: A Potential Source of Increased Predictive Capability. <i>Radio Science</i> , 2019, 54, 913-933.	0.8	17
7	Simulations of the Boreal Winter Upper Mesosphere and Lower Thermosphere With Meteorological Specifications in SD-WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3791-3811.	1.2	13
8	Impact of non-migrating tides on the low latitude ionosphere during a sudden stratospheric warming event in January 2010. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 188-200.	0.6	18
9	An Intercomparison of VLF and Sounding Rocket Techniques for Measuring the Daytime <i>D</i> Region Ionosphere: Theoretical Implications. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8688-8697.	0.8	11
10	Global modeling of the low- and middle-latitude ionospheric <i>D</i> and lower <i>E</i> regions and implications for HF radio wave absorption. <i>Space Weather</i> , 2017, 15, 115-130.	1.3	18
11	Day-to-day variability in the thermosphere and its impact on plasmasphere refilling. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6889-6900.	0.8	9
12	Ionospheric total electron content: Spatial patterns of variability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,367.	0.8	29
13	Traveling planetary-scale waves in the lower thermosphere: Effects on neutral density and composition during solar minimum conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1780-1801.	0.8	15
14	Multimodel comparison of the ionosphere variability during the 2009 sudden stratosphere warming. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7204-7225.	0.8	34
15	Persistence of upper stratospheric wintertime tracer variability into the Arctic spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7957-7967.	1.9	3
16	SAMI3/SD-WACCM-X simulations of ionospheric variability during northern winter 2009. <i>Space Weather</i> , 2015, 13, 568-584.	1.3	35
17	Is a high-altitude meteorological analysis necessary to simulate thermosphere-stratosphere coupling?. <i>Geophysical Research Letters</i> , 2015, 42, 8225-8230.	1.5	32
18	The neutral dynamics during the 2009 sudden stratosphere warming simulated by different whole atmosphere models. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1306-1324.	0.8	84

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19	Ionosphere variability during the 2009 SSW: Influence of the lunar semidiurnal tide and mechanisms producing electron density variability. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3828-3843.	0.8	78
20	Westward traveling planetary wave events in the lower thermosphere during solar minimum conditions simulated by SD-WACCM-X. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 119, 11-26.	0.6	21
21	On the day-to-day variation of the equatorial electrojet during quiet periods. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6966-6980.	0.8	44
22	The lower thermosphere during the northern hemisphere winter of 2009: A modeling study using high-altitude data assimilation products in WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8954-8968.	1.2	61
23	Large-Scale Rossby Normal Modes during Some Recent Northern Hemisphere Winters. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 820-839.	0.6	41
24	Assessing and Understanding the Impact of Stratospheric Dynamics and Variability on the Earth System. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 845-859.	1.7	146
25	Mesospheric Precursors to the Major Stratospheric Sudden Warming of 2009: Validation and Dynamical Attribution Using a Ground-to-Edge-of-Space Data Assimilation System. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, .	1.3	37
26	Consequences of recent Southern Hemisphere winter variability on polar mesospheric clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2013-2021.	0.6	34
27	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	144
28	Recent developments in gravity-wave effects in climate models and the global distribution of gravity-wave momentum flux from observations and models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1103-1124.	1.0	403
29	The Role of the Middle Atmosphere in Simulations of the Troposphere during Northern Hemisphere Winter: Differences between High- and Low-Top Models. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3048-3064.	0.6	15
30	Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. <i>Journal of Climate</i> , 2010, 23, 3282-3299.	1.2	246
31	Chemistry-Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010, 23, 5349-5374.	1.2	280
32	Role of the QBO in modulating the influence of the 11 year solar cycle on the atmosphere using constant forcings. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	93
33	Toward a Physically Based Gravity Wave Source Parameterization in a General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 136-156.	0.6	374
34	Error Growth in a Whole Atmosphere Climate Model. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 173-186.	0.6	41
35	Amplifying the Pacific Climate System Response to a Small 11-Year Solar Cycle Forcing. <i>Science</i> , 2009, 325, 1114-1118.	6.0	373
36	Response of the middle atmosphere to the 11-year solar cycle simulated with the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	12

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37	Climatology of mesopause region temperature, zonal wind, and meridional wind over Fort Collins, Colorado (41°N, 105°W), and comparison with model simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
38	Dynamics of the middle atmosphere as simulated by the Whole Atmosphere Community Climate Model, version 3 (WACCM3). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
39	A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. <i>Journal of Climate</i> , 2007, 20, 470-488.	1.2	129
40	Simulation of secular trends in the middle atmosphere, 1950–2003. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	632
41	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	395
42	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	230
43	Evaluation of heterogeneous processes in the polar lower stratosphere in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
44	Simulations of anthropogenic change in the strength of the Brewer–Dobson circulation. <i>Climate Dynamics</i> , 2006, 27, 727-741.	1.7	371
45	The effects of interactive ozone chemistry on simulations of the middle atmosphere. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	49
46	Implementation of a gravity wave source spectrum parameterization dependent on the properties of convection in the Whole Atmosphere Community Climate Model (WACCM). <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	117
47	Effect of El Niño–Southern Oscillation on the dynamical, thermal, and chemical structure of the middle atmosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	242
48	Fluctuation dissipation theorem in a general circulation model. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	27
49	Fluctuations of Cloud, Humidity, and Thermal Structure near the Tropical Tropopause. <i>Journal of Climate</i> , 2003, 16, 3428-3446.	1.2	25
50	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2765-2782.	0.6	96
51	Mesospheric inversions and their relationship to planetary wave structure. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 4-1.	3.3	38
52	Distribution and influence of convection in the tropical tropopause region. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 6-1-ACL 6-12.	3.3	246
53	Stratospheric transport in a three-dimensional isentropic coordinate model. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1.	3.3	57
54	Influence of the Madden-Julian Oscillation on upper tropospheric humidity. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 10-1-ACL 10-7.	3.3	14

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55	On temperature inversions and the mesospheric surf zone. Journal of Geophysical Research, 2002, 107, ACL 8-1.	3.3	130
56	Relationship between upper tropospheric humidity and deep convection. Journal of Geophysical Research, 2001, 106, 17133-17146.	3.3	23
57	Synoptic Mapping of Convective Structure from Undersampled Satellite Observations. Journal of Climate, 2001, 14, 2281-2295.	1.2	4
58	Synoptic-scale Rossby waves and the geographic distribution of lateral transport routes between the tropics and the extratropics in the lower stratosphere. Journal of Geophysical Research, 2000, 105, 26579-26592.	3.3	24
59	Diurnal variations in the middle atmosphere observed by UARS. Journal of Geophysical Research, 1999, 104, 3729-3739.	3.3	5
60	Modulation of the mesospheric semiannual oscillation by the quasibiennial oscillation. Earth, Planets and Space, 1999, 51, 563-569.	0.9	51
61	Impact of diurnal variability on UARS synoptic products. Geophysical Research Letters, 1998, 25, 4349-4352.	1.5	1
62	Fast Fourier synoptic mapping of UARS data. Journal of Geophysical Research, 1998, 103, 10885-10898.	3.3	10
63	The Role of Equatorial Waves Forced by Convection in the Tropical Semiannual Oscillation. Journals of the Atmospheric Sciences, 1997, 54, 1925-1942.	0.6	54
64	Maintainance of the Tropical Oscillations of Zonal-Mean Winds in the Middle Atmosphere by Convectively-Forced Gravity Waves. , 1997, , 121-136.		0
65	A One-Dimensional Model of the Semiannual Oscillation Driven by Convectively Forced Gravity Waves. Journals of the Atmospheric Sciences, 1994, 51, 3167-3182.	0.6	14
66	The Stratopause Semiannual Oscillation in the NCAR Community Climate Model. Journals of the Atmospheric Sciences, 1993, 50, 3608-3624.	0.6	51