Fabrizio Sassi

List of Publications by Year
in descending order

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66	5,972	117571	106281
papers	citations	34 h-index	65 g-index

69	69	69	3880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of secular trends in the middle atmosphere, 1950â€“2003. Journal of Geophysical Research, 2007, 112, .	3.3	632
2	Recent developments in gravityâ€wave effects in climate models and the global distribution of gravityâ€wave momentum flux from observations and models. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1103-1124.	1.0	403
3	Sensitivity of chemical tracers to meteorological parameters in the MOZARTâ€3 chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	395
4	Toward a Physically Based Gravity Wave Source Parameterization in a General Circulation Model. Journals of the Atmospheric Sciences, 2010, 67, 136-156.	0.6	374
5	Amplifying the Pacific Climate System Response to a Small 11-Year Solar Cycle Forcing. Science, 2009, 325, 1114-1118.	6.0	373
6	Simulations of anthropogenic change in the strength of the Brewerâ€“Dobson circulation. Climate Dynamics, 2006, 27, 727-741.	1.7	371
7	Chemistryâ€“Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. Journal of Climate, 2010, 23, 5349-5374.	1.2	280
8	Distribution and influence of convection in the tropical tropopause region. Journal of Geophysical Research, 2002, 107, ACL 6-1-ACL 6-12.	3.3	246
9	Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. Journal of Climate, 2010, 23, 3282-3299.	1.2	246
10	Effect of El NiÃ±oâ€“Southern Oscillation on the dynamical, thermal, and chemical structure of the middle atmosphere. Journal of Geophysical Research, 2004, 109, .	3.3	242
11	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. Journal of Geophysical Research, 2007, 112, .	3.3	230
12	Assessing and Understanding the Impact of Stratospheric Dynamics and Variability on the Earth System. Bulletin of the American Meteorological Society, 2012, 93, 845-859.	1.7	146
13	Thermosphere extension of the Whole Atmosphere Community Climate Model. Journal of Geophysical Research, 2010, 115, .	3.3	144
14	On temperature inversions and the mesospheric surf zone. Journal of Geophysical Research, 2002, 107, ACL 8-1.	3.3	130
15	A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. Journal of Climate, 2007, 20, 470-488.	1.2	129
16	Implementation of a gravity wave source spectrum parameterization dependent on the properties of convection in the Whole Atmosphere Community Climate Model (WACCM). Journal of Geophysical Research, 2005, 110, .	3.3	117
17	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. Journals of the Atmospheric Sciences, 2003, 60, 2765-2782.	0.6	96
18	Role of the QBO in modulating the influence of the 11 year solar cycle on the atmosphere using constant forcings. Journal of Geophysical Research, 2010, 115, .	3.3	93

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19	The neutral dynamics during the 2009 sudden stratosphere warming simulated by different whole atmosphere models. Journal of Geophysical Research: Space Physics, 2014, 119, 1306-1324.	0.8	84
20	Ionosphere variability during the 2009 SSW: Influence of the lunar semidiurnal tide and mechanisms producing electron density variability. Journal of Geophysical Research: Space Physics, 2014, 119, 3828-3843.	0.8	78
21	The lower thermosphere during the northern hemisphere winter of 2009: A modeling study using highâ€altitude data assimilation products in WACCMâ€X. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8954-8968.	1.2	61
22	Dynamics of the middle atmosphere as simulated by the Whole Atmosphere Community Climate Model, version 3 (WACCM3). Journal of Geophysical Research, 2008, 113, .	3.3	60
23	Stratospheric transport in a three-dimensional isentropic coordinate model. Journal of Geophysical Research, 2002, 107, ACH 3-1.	3.3	57
24	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
25	The Stratopause Semiannual Oscillation in the NCAR Community Climate Model. Journals of the Atmospheric Sciences, 1993, 50, 3608-3624.	0.6	51
26	Modulation of the mesospheric semiannual oscillation by the quasibiennial oscillation. Earth, Planets and Space, 1999, 51, 563-569.	0.9	51
27	The effects of interactive ozone chemistry on simulations of the middle atmosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	49
28	Climatology of mesopause region temperature, zonal wind, and meridional wind over Fort Collins, Colorado (41Â°N, 105Â°W), and comparison with model simulations. Journal of Geophysical Research, 2008, 113, .	3.3	46
29	On the dayâ€toâ€day variation of the equatorial electrojet during quiet periods. Journal of Geophysical Research: Space Physics, 2014, 119, 6966-6980.	0.8	44
30	Error Growth in a Whole Atmosphere Climate Model. Journals of the Atmospheric Sciences, 2009, 66, 173-186.	0.6	41
31	Large-Scale Rossby Normal Modes during Some Recent Northern Hemisphere Winters. Journals of the Atmospheric Sciences, 2012, 69, 820-839.	0.6	41
32	Mesospheric inversions and their relationship to planetary wave structure. Journal of Geophysical Research, 2002, 107, ACL 4-1.	3.3	38
33	Mesospheric Precursors to the Major Stratospheric Sudden Warming of 2009: Validation and Dynamical Attribution Using a Ground-to-Edge-of-Space Data Assimilation System. Journal of Advances in Modeling Earth Systems, 2011, 3, .	1.3	37
34	SAMI3/SDâ€WACCMâ€X simulations of ionospheric variability during northern winter 2009. Space Weather, 2015, 13, 568-584.	1.3	35
35	Consequences of recent Southern Hemisphere winter variability on polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2013-2021.	0.6	34
36	Multimodel comparison of the ionosphere variability during the 2009 sudden stratosphere warming. Journal of Geophysical Research: Space Physics, 2016, 121, 7204-7225.	0.8	34

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37	Evaluation of heterogeneous processes in the polar lower stratosphere in the Whole Atmosphere Community Climate Model. Journal of Geophysical Research, 2007, 112, .	3.3	33
38	Is a highâ€altitude meteorological analysis necessary to simulate thermosphereâ€stratosphere coupling?. Geophysical Research Letters, 2015, 42, 8225-8230.	1.5	32
39	Ionospheric total electron content: Spatial patterns of variability. Journal of Geophysical Research: Space Physics, 2016, 121, 10,367.	0.8	29
40	Fluctuation dissipation theorem in a general circulation model. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	27
41	Fluctuations of Cloud, Humidity, and Thermal Structure near the Tropical Tropopause. Journal of Climate, 2003, 16, 3428-3446.	1.2	25
42	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
43	Relationship between upper tropospheric humidity and deep convection. Journal of Geophysical Research, 2001, 106, 17133-17146.	3.3	23
44	Westward traveling planetary wave events in the lower thermosphere during solar minimum conditions simulated by SD-WACCM-X. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 119, 11-26.	0.6	21
45	Global modeling of the lowâ€and middleâ€latitude ionospheric D and lower E regions and implications for HF radio wave absorption. Space Weather, 2017, 15, 115-130.	1.3	18
46	Impact of non-migrating tides on the low latitude ionosphere during a sudden stratospheric warming event in January 2010. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 171, 188-200.	0.6	18
47	Whole Atmosphere Coupling on Intraseasonal and Interseasonal Time Scales: A Potential Source of Increased Predictive Capability. Radio Science, 2019, 54, 913-933.	0.8	17
48	The Role of the Middle Atmosphere in Simulations of the Troposphere during Northern Hemisphere Winter: Differences between High- and Low-Top Models. Journals of the Atmospheric Sciences, 2010, 67, 3048-3064.	0.6	15
49	Traveling planetaryâ€scale waves in the lower thermosphere: Effects on neutral density and composition during solar minimum conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 1780-1801.	0.8	15
50	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
51	Influence of the Madden-Julian Oscillation on upper tropospheric humidity. Journal of Geophysical Research, 2002, 107, ACL 10-1-ACL 10-7.	3.3	14
52	Simulations of the Boreal Winter Upper Mesosphere and Lower Thermosphere With Meteorological Specifications in SDâ€WACCMâ€X. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3791-3811.	1.2	13
53	Response of the middle atmosphere to the 11â€year solar cycle simulated with the Whole Atmosphere Community Climate Model. Journal of Geophysical Research, 2009, 114, .	3.3	12
54	An Intercomparison of VLF and Sounding Rocket Techniques for Measuring the Daytime D Region Ionosphere: Theoretical Implications. Journal of Geophysical Research: Space Physics, 2018, 123, 8688-8697.	0.8	11

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55	Fast Fourier synoptic mapping of UARS data. Journal of Geophysical Research, 1998, 103, 10885-10898.	3.3	10
56	Dayâ€toâ€day variability in the thermosphere and its impact on plasmasphere refilling. Journal of Geophysical Research: Space Physics, 2016, 121, 6889-6900.	0.8	9
57	Intercomparison of middle atmospheric meteorological analyses for the Northern Hemisphere winter 2009â€“2010. Atmospheric Chemistry and Physics, 2021, 21, 17577-17605.	1.9	9
58	Day-to-day variability of the bottomside ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 205, 105299.	0.6	8
59	The Effects of Vertically Propagating Tides on the Mean Dynamical Structure of the Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7202-7219.	0.8	7
60	Assessing the impact of middle atmosphere observations on day-to-day variability in lower thermospheric winds using WACCM-X. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 212, 105486.	0.6	7
61	Diurnal variations in the middle atmosphere observed by UARS. Journal of Geophysical Research, 1999, 104, 3729-3739.	3.3	5
62	Two- and three-dimensional structures of the descent of mesospheric trace constituents after the 2013 sudden stratospheric warming elevated stratopause event. Atmospheric Chemistry and Physics, 2021, 21, 14059-14077.	1.9	5
63	Synoptic Mapping of Convective Structure from Undersampled Satellite Observations. Journal of Climate, 2001, 14, 2281-2295.	1.2	4
64	Persistence of upper stratospheric wintertime tracer variability into the Arctic spring and summer. Atmospheric Chemistry and Physics, 2016, 16, 7957-7967.	1.9	3
65	Impact of diurnal variability on UARS synoptic products. Geophysical Research Letters, 1998, 25, 4349-4352.	1.5	1
66	Maintainance of the Tropical Oscillations of Zonal-Mean Winds in the Middle Atmosphere by Convectively-Forced Gravity Waves. , 1997, , 121-136.		0