Sandrine Guerlet

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9561/publications.pdf

Version: 2024-02-01

		186265	223800
47	2,626	28	46
papers	citations	h-index	g-index

54	54	54	2451
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Structure and Aerosols in Marsâ€™ Atmosphere From TIRVIM/ACS Onboard the ExoMars Trace Gas Orbiter: Validation of the Retrieval Algorithm. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	9
2	Thermal Tides in the Martian Atmosphere Near Northern Summer Solstice Observed by ACS/TIRVIM Onboard TGO. Geophysical Research Letters, 2022, 49, .	4.0	10
3	Joint evolution of equatorial oscillation and interhemispheric circulation in Saturnâ€™s stratosphere. Nature Astronomy, 2022, 6, 804-811.	10.1	6
4	Global climate modeling of Saturnâ€™s atmosphere. Part IV: Stratospheric equatorial oscillation. Icarus, 2021, 354, 114042.	2.5	8
5	Mapping the zonal winds of Jupiterâ€™s stratospheric equatorial oscillation. Astronomy and Astrophysics, 2021, 652, A125.	5.1	4
6	Radiative-dynamical Simulation of Jupiterâ€™s Stratosphere and Upper Troposphere. Astrophysical Journal, 2021, 921, 174.	4.5	2
7	Global climate modeling of Saturn's atmosphere. Part II: Multi-annual high-resolution dynamical simulations. Icarus, 2020, 335, 113377.	2.5	31
8	Multilayer hazes over Saturnâ€™s hexagon from Cassini ISS limb images. Nature Communications, 2020, 11, 2281.	12.8	6
9	Radiative-equilibrium model of Jupiterâ€™s atmosphere and application to estimating stratospheric circulations. Icarus, 2020, 351, 113935.	2.5	11
10	Herschel map of Saturnâ€™s stratospheric water, delivered by the plumes of Enceladus. Astronomy and Astrophysics, 2019, 630, A87.	5.1	15
11	Equatorial Oscillation and Planetary Wave Activity in Saturn's Stratosphere Through the Cassini Epoch. Journal of Geophysical Research E: Planets, 2018, 123, 246-261.	3.6	19
12	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	119
13	Recent advances in collisional effects on spectra of molecular gases and their practical consequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 178-227.	2.3	85
14	Saturnâ€™s Seasonally Changing Atmosphere. , 2018, , 251-294.		6
15	A hexagon in Saturnâ€™s northern stratosphere surrounding the emerging summertime polar vortex. Nature Communications, 2018, 9, 3564.	12.8	36
16	Atmospheric structure and helium abundance on Saturn from Cassini/UVIS and CIRS observations. Icarus, 2018, 307, 161-171.	2.5	41
17	Disruption of Saturnâ€™s quasi-periodic equatorial oscillation by the great northern storm. Nature Astronomy, 2017, 1, 765-770.	10.1	37
18	Stratospheric aftermath of the 2010 Storm on Saturn as observed by the TEXES instrument. I. Temperature structure. Icarus, 2016, 277, 196-214.	2.5	12

#	Article	IF	Citations
19	The detection of benzene in Saturn's upper atmosphere. Geophysical Research Letters, 2016, 43, 7895-7901.	4.0	29
20	Inverse modelling of CH₄ emissions for 2010â€“2011 using different satellite retrieval products from GOSAT and SCIAMACHY. Atmospheric Chemistry and Physics, 2015, 15, 113-133.	4.9	126
21	Seasonal changes in Saturnâ€™s stratosphere inferred from Cassini/CIRS limb observations. Icarus, 2015, 258, 224-238.	2.5	22
22	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO2 and CH4 global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	11.0	112
23	Stratospheric benzene and hydrocarbon aerosols detected in Saturnâ€™s auroral regions. Astronomy and Astrophysics, 2015, 580, A89.	5.1	19
24	The impact of spectral resolution on satellite retrieval accuracy of CO₂ and CH₄. Atmospheric Measurement Techniques, 2014, 7, 1105-1119.	3.1	6
25	The Greenhouse Gas Climate Change Initiative (GHG-CCI): comparative validation of GHG-CCI SCIAMACHY/ENVISAT and TANSO-FTS/GOSAT CO₂ and CH₄ retrieval algorithm products with measurements from the TCCON. Atmospheric Measurement Techniques, 2014, 7, 1723-1744.	3.1	70
26	Scientific rationale for Saturn×³s in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	1.7	49
27	From Voyager-IRIS to Cassini-CIRS: Interannual variability in Saturnâ€™s stratosphere?. Icarus, 2014, 233, 281-292.	2.5	20
28	Influence of differences in current GOSATX_{CO}₂retrievals on surface flux estimation. Geophysical Research Letters, 2014, 41, 2598-2605.	4.0	45
29	Global climate modeling of Saturnâ€™s atmosphere. Part I: Evaluation of the radiative transfer model. Icarus, 2014, 238, 110-124.	2.5	45
30	Interpreting seasonal changes in the carbon balance of southern Amazonia using measurements of XCO₂ and chlorophyll fluorescence from GOSAT. Geophysical Research Letters, 2013, 40, 2829-2833.	4.0	89
31	Using ocean-glint scattered sunlight as a diagnostic tool for satellite remote sensing of greenhouse gases. Atmospheric Measurement Techniques, 2013, 6, 2509-2520.	3.1	20
32	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO₂ retrievals over TCCON sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1493-1512.	3.3	46
33	Reduced carbon uptake during the 2010 Northern Hemisphere summer from GOSAT. Geophysical Research Letters, 2013, 40, 2378-2383.	4.0	65
34	Global CO₂ fluxes estimated from GOSAT retrievals of total column CO₂. Atmospheric Chemistry and Physics, 2013, 13, 8695-8717.	4.9	251
35	A joint effort to deliver satellite retrieved atmospheric CO₂ concentrations for surface flux inversions: the ensemble median algorithm EMMA. Atmospheric Chemistry and Physics, 2013, 13, 1771-1780.	4.9	62
36	Impact of aerosol and thin cirrus on retrieving and validating XCO₂ from GOSAT shortwave infrared measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4887-4905.	3.3	111

#	Article	IF	Citations
37	Comparison of CH₄ inversions based on 15 months of GOSAT and SCIAMACHY observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,807.	3.3	66
38	A simple empirical model estimating atmospheric CO₂ background concentrations. Atmospheric Measurement Techniques, 2012, 5, 1349-1357.	3.1	29
39	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDFâ€based CO₂ retrievals from GOSAT. Journal of Geophysical Research, 2012, 117, .	3.3	42
40	Methane retrievals from Greenhouse Gases Observing Satellite (GOSAT) shortwave infrared measurements: Performance comparison of proxy and physics retrieval algorithms. Journal of Geophysical Research, 2012, 117, .	3.3	128
41	Evolution of the equatorial oscillation in Saturn's stratosphere between 2005 and 2010 from Cassini/CIRS limb data analysis. Geophysical Research Letters, 2011, 38, .	4.0	41
42	Toward accurate CO₂and CH₄observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	355
43	Seasonal change on Saturn from Cassini/CIRS observations, 2004â€“2009. Icarus, 2010, 208, 337-352.	2.5	63
44	Meridional distribution of CH3C2H and C4H2 in Saturnâ€™s stratosphere from CIRS/Cassini limb and nadir observations. Icarus, 2010, 209, 682-695.	2.5	35
45	Vertical and meridional distribution of ethane, acetylene and propane in Saturnâ€™s stratosphere from CIRS/Cassini limb observations. Icarus, 2009, 203, 214-232.	2.5	78
46	An equatorial oscillation in Saturnâ€™s middle atmosphere. Nature, 2008, 453, 200-202.	27.8	88
47	Evidence for anomalous cloud particles at the poles of Venus. Journal of Geophysical Research, 2008, 113, .	3.3	38