

Arnaud Stiepen

List of Publications by Year in descending order

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31
papers

1,686
citations

218381

26
h-index

433756

31
g-index

31
all docs

31
docs citations

31
times ranked

1136
citing authors

#	ARTICLE	IF	CITATIONS
1	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	6.0	166
2	The structure and variability of Mars dayside thermosphere from MAVEN NGIMS and IUVS measurements: Seasonal and solar activity trends in scale heights and temperatures. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1296-1313.	0.8	124
3	Discovery of diffuse aurora on Mars. <i>Science</i> , 2015, 350, aad0313.	6.0	98
4	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 9023-9030.	1.5	95
5	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	95
6	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	6.0	90
7	MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9009-9014.	1.5	77
8	Three-dimensional structure in the Mars H corona revealed by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9001-9008.	1.5	67
9	Variability of D and H in the Martian upper atmosphere observed with the MAVEN IUVS echelle channel. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2336-2344.	0.8	64
10	SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. <i>Icarus</i> , 2017, 297, 195-216.	1.1	64
11	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. <i>Geophysical Research Letters</i> , 2015, 42, 4755-4761.	1.5	56
12	SPICAM observations and modeling of Mars aurorae. <i>Icarus</i> , 2016, 264, 398-406.	1.1	52
13	Detection of a persistent meteoric metal layer in the Martian atmosphere. <i>Nature Geoscience</i> , 2017, 10, 401-404.	5.4	52
14	Discovery of a proton aurora at Mars. <i>Nature Astronomy</i> , 2018, 2, 802-807.	4.2	50
15	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018, 45, 7391-7398.	1.5	44
16	Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. <i>Geophysical Research Letters</i> , 2015, 42, 9057-9063.	1.5	43
17	Retrieval of CO ₂ and N ₂ in the Martian thermosphere using dayglow observations by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9040-9049.	1.5	43
18	Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. <i>Geophysical Research Letters</i> , 2015, 42, 9064-9070.	1.5	42

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19	Mars H Escape Rates Derived From MAVEN/IUVS Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2192-2210.	1.5	42
20	New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9050-9056.	1.5	41
21	Concurrent observations of ultraviolet aurora and energetic electron precipitation with Mars Express. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6749-6765.	0.8	37
22	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMD-MGCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5782-5797.	0.8	36
23	Venus nitric oxide nightglow mapping from SPICAV nadir observations. <i>Icarus</i> , 2013, 226, 428-436.	1.1	35
24	Ten years of Martian nitric oxide nightglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 720-725.	1.5	29
25	Mars thermospheric scale height: CO Cameron and CO ₂ + dayglow observations from Mars Express. <i>Icarus</i> , 2015, 245, 295-305.	1.1	29
26	Significant Space Weather Impact on the Escape of Hydrogen From Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8844-8852.	1.5	29
27	Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by MAVEN/IUVS. <i>Geophysical Research Letters</i> , 2018, 45, 7312-7319.	1.5	24
28	Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 4709-4715.	1.5	23
29	The vertical distribution of the Venus NO nightglow: Limb profiles inversion and one-dimensional modeling. <i>Icarus</i> , 2012, 220, 981-989.	1.1	13
30	UV Dayglow Variability on Mars: Simulation With a Global Climate Model and Comparison With SPICAM/MEx Data. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1934-1952.	1.5	13
31	Imaging of Martian Circulation Patterns and Atmospheric Tides Through MAVEN/IUVS Nightglow Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027318.	0.8	13