

Mehdi Benna

List of Publications by Year in descending order

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133
papers

10,981
citations

44444

50
h-index

34195

103
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137
all docs

137
docs citations

137
times ranked

6190
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
2	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015, 195, 3-48.	3.7	563
3	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
4	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
5	The Sample Analysis at Mars Investigation and Instrument Suite. <i>Space Science Reviews</i> , 2012, 170, 401-478.	3.7	435
6	Volatile, Isotope, and Organic Analysis of Martian Finest with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
7	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
8	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
9	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
10	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	6.0	323
11	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
12	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
13	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263.	6.0	241
14	MESSENGER Observations of Magnetic Reconnection in Mercury's Magnetosphere. <i>Science</i> , 2009, 324, 606-610.	6.0	234
15	The Neutral Gas and Ion Mass Spectrometer on the Mars Atmosphere and Volatile Evolution Mission. <i>Space Science Reviews</i> , 2015, 195, 49-73.	3.7	229
16	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	6.0	224
17	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018, 315, 146-157.	1.1	216
18	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215

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19	Mars TM atmospheric history derived from upper-atmosphere measurements of ³⁸ Ar/ ³⁶ Ar. <i>Science</i> , 2017, 355, 1408-1410.	6.0	183
20	MESSENGER Observations of Extreme Loading and Unloading of Mercury TM s Magnetic Tail. <i>Science</i> , 2010, 329, 665-668.	6.0	172
21	Structure and composition of the neutral upper atmosphere of Mars from the MAVEN NGIMS investigation. <i>Geophysical Research Letters</i> , 2015, 42, 8951-8957.	1.5	168
22	Mercury's Magnetosphere After MESSENGER's First Flyby. <i>Science</i> , 2008, 321, 85-89.	6.0	166
23	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	6.0	166
24	First measurements of composition and dynamics of the Martian ionosphere by MAVEN's Neutral Gas and Ion Mass Spectrometer. <i>Geophysical Research Letters</i> , 2015, 42, 8958-8965.	1.5	142
25	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
26	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
27	Mercury TM s Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014, 181, 121-214.	3.7	108
28	Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3815-3836.	0.8	106
29	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
30	Thermal Structure of the Martian Upper Atmosphere From MAVEN NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2842-2867.	1.5	91
31	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	6.0	90
32	MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2310-2335.	0.8	88
33	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
34	Initial SAM calibration gas experiments on Mars: Quadrupole mass spectrometer results and implications. <i>Planetary and Space Science</i> , 2017, 138, 44-54.	0.9	84
35	Lunar soil hydration constrained by exospheric water liberated by meteoroid impacts. <i>Nature Geoscience</i> , 2019, 12, 333-338.	5.4	81
36	Variability of helium, neon, and argon in the lunar exosphere as observed by the LADEE NMS instrument. <i>Geophysical Research Letters</i> , 2015, 42, 3723-3729.	1.5	79

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37	MAVEN observations of solar wind hydrogen deposition in the atmosphere of Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8901-8909.	1.5	78
38	Modeling of the magnetosphere of Mercury at the time of the first MESSENGER flyby. <i>Icarus</i> , 2010, 209, 3-10.	1.1	67
39	The Lunar Atmosphere and Dust Environment Explorer Mission. <i>Space Science Reviews</i> , 2014, 185, 3-25.	3.7	66
40	Global distribution and parameter dependences of gravity wave activity in the Martian upper thermosphere derived from MAVEN/NGIMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2374-2397.	0.8	66
41	Hydrogen escape from Mars is driven by seasonal and dust storm transport of water. <i>Science</i> , 2020, 370, 824-831.	6.0	66
42	Ion Densities in the Nightside Ionosphere of Mars: Effects of Electron Impact Ionization. <i>Geophysical Research Letters</i> , 2017, 44, 11248-11256.	1.5	64
43	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. <i>Geophysical Research Letters</i> , 2015, 42, 9113-9120.	1.5	58
44	Water and water ions in the Martian thermosphere/ionosphere. <i>Geophysical Research Letters</i> , 2015, 42, 8977-8985.	1.5	56
45	MESSENGER observations of Mercury's magnetosphere during northward IMF. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	55
46	The Neutral Mass Spectrometer on the Lunar Atmosphere and Dust Environment Explorer Mission. <i>Space Science Reviews</i> , 2014, 185, 27-61.	3.7	55
47	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. <i>Geophysical Research Letters</i> , 2015, 42, 9103-9112.	1.5	54
48	Metallic species, oxygen and silicon in the lunar exosphere: Upper limits and prospects for LADEE measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53
49	Cosmic dust fluxes in the atmospheres of Earth, Mars, and Venus. <i>Icarus</i> , 2020, 335, 113395.	1.1	53
50	He bulge revealed: He and CO ₂ diurnal and seasonal variations in the upper atmosphere of Mars as detected by MAVEN NGIMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2564-2573.	0.8	52
51	Monte Carlo modeling of sodium in Mercury's exosphere during the first two MESSENGER flybys. <i>Icarus</i> , 2010, 209, 63-74.	1.1	51
52	Simultaneous observations of atmospheric tides from combined in situ and remote observations at Mars from the MAVEN spacecraft. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 594-607.	1.5	48
53	Solar wind forcing at Mercury: WSA-ENLIL model results. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 45-57.	0.8	46
54	Nightside ionosphere of Mars: Composition, vertical structure, and variability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4712-4725.	0.8	46

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55	Metallic ions in the upper atmosphere of Mars from the passage of comet C/2013 A1 (Siding Spring). Geophysical Research Letters, 2015, 42, 4670-4675.	1.5	45
56	Detections of lunar exospheric ions by the LADEE neutral mass spectrometer. Geophysical Research Letters, 2015, 42, 5162-5169.	1.5	42
57	Ionopause-like density gradients in the Martian ionosphere: A first look with MAVEN. Geophysical Research Letters, 2015, 42, 8885-8893.	1.5	42
58	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. Journal of Geophysical Research: Space Physics, 2017, 122, 1714-1730.	0.8	40
59	Sources of Ionospheric Variability at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 9670-9684.	0.8	40
60	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 4129-4149.	0.8	40
61	The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. Geophysical Research Letters, 2018, 45, 8005-8013.	1.5	38
62	MESSENGER and Venus Express observations of the solar wind interaction with Venus. Geophysical Research Letters, 2009, 36, .	1.5	37
63	Space environment of Mercury at the time of the first MESSENGER flyby: Solar wind and interplanetary magnetic field modeling of upstream conditions. Journal of Geophysical Research, 2009, 114, .	3.3	37
64	Limits to Mercury's magnesium exosphere from MESSENGER second flyby observations. Planetary and Space Science, 2011, 59, 1992-2003.	0.9	36
65	Ionizing Electrons on the Martian Nightside: Structure and Variability. Journal of Geophysical Research: Space Physics, 2018, 123, 4349-4363.	0.8	35
66	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. Journal of Geophysical Research: Space Physics, 2016, 121, 8859-8870.	0.8	33
67	MAVEN observations of dayside peak electron densities in the ionosphere of Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 891-906.	0.8	33
68	Dust Storm-Enhanced Gravity Wave Activity in the Martian Thermosphere Observed by MAVEN and Implication for Atmospheric Escape. Geophysical Research Letters, 2021, 48, e2020GL092095.	1.5	33
69	Constraints on Mercury's Na exosphere: Combined MESSENGER and ground-based data. Icarus, 2011, 211, 21-36.	1.1	32
70	Longitudinal structures in Mars' upper atmosphere as observed by MAVEN/NGIMS. Journal of Geophysical Research: Space Physics, 2017, 122, 1258-1268.	0.8	32
71	Electron transport and precipitation at Mercury during the MESSENGER flybys: Implications for electron-stimulated desorption. Planetary and Space Science, 2011, 59, 2026-2036.	0.9	30
72	Unique, non-Earthlike, meteoritic ion behavior in upper atmosphere of Mars. Geophysical Research Letters, 2017, 44, 3066-3072.	1.5	30

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73	Variability of Martian Turbopause Altitudes. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2939-2957.	1.5	30
74	Observations and Modeling of the Mars Low Altitude Ionospheric Response to the 10 September 2017 X-Class Solar Flare. <i>Geophysical Research Letters</i> , 2018, 45, 7382-7390.	1.5	30
75	Significant Space Weather Impact on the Escape of Hydrogen From Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8844-8852.	1.5	29
76	The space environment of Mercury at the times of the second and third MESSENGER flybys. <i>Planetary and Space Science</i> , 2011, 59, 2066-2074.	0.9	28
77	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2401-2428.	1.5	27
78	Thermospheric Expansion Associated With Dust Increase in the Lower Atmosphere on Mars Observed by MAVEN/NGIMS. <i>Geophysical Research Letters</i> , 2018, 45, 2901-2910.	1.5	27
79	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9040-9057.	0.8	27
80	Sodium ion pickup observed above the magnetopause during MESSENGER's first Mercury flyby: Constraints on neutral exospheric models. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	26
81	Mars's Dayside Upper Ionospheric Composition Is Affected by Magnetic Field Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3100-3109.	0.8	26
82	Volatile interactions with the lunar surface. <i>Chemie Der Erde</i> , 2022, 82, 125858.	0.8	26
83	Comparison of model predictions for the composition of the ionosphere of Mars to MAVEN NGIMS data. <i>Geophysical Research Letters</i> , 2015, 42, 8966-8976.	1.5	25
84	Understanding temporal and spatial variability of the lunar helium atmosphere using simultaneous observations from LRO, LADEE, and ARTEMIS. <i>Icarus</i> , 2016, 273, 45-52.	1.1	25
85	Atmospheric Tides at High Latitudes in the Martian Upper Atmosphere Observed by MAVEN and MRO. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2943-2953.	0.8	24
86	Mars Dust Storm Effects in the Ionosphere and Magnetosphere and Implications for Atmospheric Carbon Loss. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, no.	0.8	23
87	Martian Electron Temperatures in the Subsolar Region: MAVEN Observations Compared to a One-Dimensional Model. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5960-5973.	0.8	21
88	Water Group Exospheres and Surface Interactions on the Moon, Mercury, and Ceres. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	21
89	Analytical techniques for retrieval of atmospheric composition with the quadrupole mass spectrometer of the Sample Analysis at Mars instrument suite on Mars Science Laboratory. <i>Planetary and Space Science</i> , 2014, 96, 99-113.	0.9	20
90	Changes in the thermosphere and ionosphere of Mars from Viking to MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9071-9079.	1.5	20

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91	MAVEN/NGIMS Thermospheric Neutral Wind Observations: Interpretation Using the MGS-GITM General Circulation Model. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3283-3303.	1.5	20
92	Global circulation of Mars's upper atmosphere. <i>Science</i> , 2019, 366, 1363-1366.	6.0	20
93	Effects of a Solar Flare on the Martian Hot O Corona and Photochemical Escape. <i>Geophysical Research Letters</i> , 2018, 45, 6814-6822.	1.5	19
94	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. <i>Geophysical Research Letters</i> , 2019, 46, 9334-9343.	1.5	19
95	Multi-fluid model of comet 1P/Halley. <i>Planetary and Space Science</i> , 2007, 55, 1031-1043.	0.9	18
96	Ionospheric Neutral Coupling in the Upper Atmosphere of Mars: A Dominant Driver of Topside Ionospheric Structure. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3786-3798.	0.8	18
97	Ambipolar Electric Field in the Martian Ionosphere: MAVEN Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4518-4524.	0.8	18
98	In Situ Measurements of Thermal Ion Temperature in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029531.	0.8	17
99	Improving solar wind modeling at Mercury: Incorporating transient solar phenomena into the WSA-ENLIL model with the Cone extension. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5667-5685.	0.8	16
100	MAVEN Observations of Ionospheric Irregularities at Mars. <i>Geophysical Research Letters</i> , 2017, 44, 10,845.	1.5	16
101	MAVEN and the Mars Initial Reference Ionosphere model. <i>Geophysical Research Letters</i> , 2015, 42, 9080-9086.	1.5	15
102	Rate coefficients for the reactions of CO ₂ with O: Lessons from MAVEN at Mars. <i>Icarus</i> , 2021, 358, 114186.	1.1	15
103	Constantly forming sporadic E-like layers and rifts in the Martian ionosphere and their implications for Earth. <i>Nature Astronomy</i> , 2020, 4, 486-491.	4.2	14
104	Seasonal Variability of Deuterium in the Upper Atmosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2152-2164.	0.8	13
105	Traveling Ionospheric Disturbances at Mars. <i>Geophysical Research Letters</i> , 2019, 46, 4554-4563.	1.5	13
106	Higher order parametric excitation modes for spaceborne quadrupole mass spectrometers. <i>Review of Scientific Instruments</i> , 2011, 82, 125109.	0.6	12
107	MAVEN and the total electron content of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3526-3537.	0.8	12
108	Tidal Effects on the Longitudinal Structures of the Martian Thermosphere and Topside Ionosphere Observed by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028562.	0.8	12

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109	Volatiles and Refractories in Surface-Bounded Exospheres in the Inner Solar System. <i>Space Science Reviews</i> , 2021, 217, 61.	3.7	12
110	A priori information required for a two or three dimensional reconstruction of the internal structure of a comet nucleus (consert experiment). <i>Advances in Space Research</i> , 2002, 29, 715-724.	1.2	10
111	Modeling the response of the induced magnetosphere of Venus to changing IMF direction using MESSENGER and Venus Express observations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	9
112	Simulations of lunar exospheric water events from meteoroid impacts. <i>Planetary and Space Science</i> , 2018, 162, 148-156.	0.9	9
113	The Modulation of Solar Wind Hydrogen Deposition in the Martian Atmosphere by Foreshock Phenomena. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7086-7097.	0.8	9
114	Escape of CO ₂ and Other Heavy Minor Ions From the Ionosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028608.	0.8	9
115	The Statistical Characteristics of Small-scale Ionospheric Irregularities Observed in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5874-5893.	0.8	8
116	A prospective microwave plasma source for <i>in situ</i> spaceflight applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2740-2747.	1.6	8
117	Seasonal and Dust-Related Variations in the Dayside Thermospheric and Ionospheric Compositions of Mars Observed by MAVEN/NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006926.	1.5	8
118	First Evidence of Persistent Nighttime Temperature Structures in the Neutral Thermosphere of Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8819-8825.	1.5	7
119	First In Situ Evidence of Mars Nonthermal Exosphere. <i>Geophysical Research Letters</i> , 2019, 46, 4144-4150.	1.5	7
120	First Detection of Kilometer-scale Density Irregularities in the Martian Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090906.	1.5	7
121	A Multiscale Central Difference Scheme Applied to Magnetohydrodynamic Simulations of Cometary Atmospheres. <i>Astrophysical Journal</i> , 2004, 617, 656-666.	1.6	6
122	MAVEN Case Studies of Plasma Dynamics in Low-Altitude Crustal Magnetic Field at Mars 1: Dayside Ion Spikes Associated With Radial Crustal Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1239-1261.	0.8	6
123	Subsolar Electron Temperatures in the Lower Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027597.	0.8	6
124	The Origins of Long-Term Variability in Martian Upper Atmospheric Densities. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
125	Effects of the 10 September 2017 Solar Flare on the Density and Composition of the Thermosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028518.	0.8	5
126	Ionization Efficiency in the Dayside Ionosphere of Mars: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006923.	1.5	5

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127	Evaluation of the robustness of chromatographic columns in a simulated highly radiative Jovian environment. <i>Planetary and Space Science</i> , 2016, 122, 38-45.	0.9	4
128	Neutral Composition and Horizontal Variations of the Martian Upper Atmosphere From MAVEN NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	4
129	On the Altitude Patterns of Photochemical Equilibrium in the Martian Ionosphere: A Special Role for Electron Temperature. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	3
130	Carbon Ion Fluxes at Mars: First Results of Tailward Flows From MAVEN STATIC. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
131	MAVEN/NGIMS wind observations in the martian thermosphere during the 2018 planet encircling dust event. <i>Icarus</i> , 2022, 382, 115006.	1.1	2
132	A lingering local exosphere created by a gas plume of a lunar lander. <i>Icarus</i> , 2022, 376, 114857.	1.1	1
133	In Situ Electron Density From Active Sounding: The Influence of the Spacecraft Wake. <i>Geophysical Research Letters</i> , 2019, 46, 10250-10256.	1.5	0