Janet G Luhmann

List of Publications by Citations

336 papers	15,968 citations	73 h-index	106 g-index
349 ext. papers	17,419 ext. citations	5 avg, IF	6.2 L-index

#	Paper	IF	Citations
336	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. *Space Science Reviews*, **2015**, 195, 3-48	7.5	405
335	Properties of Interplanetary Coronal Mass Ejections at One AU During 1995 2004. *Solar Physics*, **2006**, 239, 393-436	2.6	244
334	Magnetic fields near Mars: first results. *Nature*, **1989**, 341, 604-607	50.4	230
333	STEREO IMPACT Investigation Goals, Measurements, and Data Products Overview. *Space Science Reviews*, **2008**, 136, 117-184	7.5	226
332	Stream structure and coronal sources of the solar wind during the May 12th, 1997 CME. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2004**, 66, 1295-1309	2	212
331	Evolutionary impact of sputtering of the Martian atmosphere by O+ pickup ions. *Geophysical Research Letters*, **1992**, 19, 2151-2154	4.9	204
330	A Comparison between Global Solar Magnetohydrodynamic and Potential Field Source Surface Model Results. *Astrophysical Journal*, **2006**, 653, 1510-1516	4.7	202
329	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. *Space Science Reviews*, **2007**, 126, 113-164	7.5	196
328	Properties of Stream Interactions at One AU During 1995 2004. *Solar Physics*, **2006**, 239, 337-392	2.6	192
327	Solar wind-induced atmospheric erosion at Mars: first results from ASPERA-3 on Mars Express. *Science*, **2004**, 305, 1933-6	33.3	181
326	Dayside pickup oxygen ion precipitation at Venus and Mars: Spatial distributions, energy deposition and consequences. *Journal of Geophysical Research*, **1991**, 96, 5457		180
325	Observations of an extreme storm in interplanetary space caused by successive coronal mass ejections. *Nature Communications*, **2014**, 5, 3481	17.4	178
324	The STEREO/IMPACT Magnetic Field Experiment. *Space Science Reviews*, **2008**, 136, 203-226	7.5	178
323	Topological Evolution of a Fast Magnetic Breakout CME in Three Dimensions. *Astrophysical Journal*, **2008**, 683, 1192-1206	4.7	177
322	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. *Planetary and Space Science*, **2007**, 55, 1772-1792	2	175
321	Composition of Titan's ionosphere. *Geophysical Research Letters*, **2006**, 33,	4.9	171
320	The Cassini Ion and Neutral Mass Spectrometer (INMS) Investigation. *Space Science Reviews*, **2004**, 114, 113-231	7.5	169

319	A Three-dimensional Model of the Solar Wind Incorporating Solar Magnetogram Observations. *Astrophysical Journal*, **2003**, 595, L57-L61	4.7	163
318	The solar wind interaction with Venus. *Space Science Reviews*, **1986**, 44, 241	7.5	151
317	Solar cycle evolution of the structure of magnetic clouds in the inner heliosphere. *Geophysical Research Letters*, **1998**, 25, 2959-2962	4.9	149
316	The loss of ions from Venus through the plasma wake. *Nature*, **2007**, 450, 650-3	50.4	139
315	An observational study of the nightside ionospheres of Mars and Venus with radio occultation methods. *Journal of Geophysical Research*, **1990**, 95, 17095		136
314	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. *Icarus*, **2018**, 315, 146-157	3.8	136
313	Relationships between coronal mass ejection speeds from coronagraph images and interplanetary characteristics of associated interplanetary coronal mass ejections. *Journal of Geophysical Research*, **1999**, 104, 12515-12523		133
312	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. *Science*, **2015**, 350, aad0210	33.3	131
311	CONNECTING SPEEDS, DIRECTIONS AND ARRIVAL TIMES OF 22 CORONAL MASS EJECTIONS FROM THE SUN TO 1 AU. *Astrophysical Journal*, **2014**, 787, 119	4.7	128
310	Structure, dynamics, and seasonal variability of the Mars-solar wind interaction: MAVEN Solar Wind Ion Analyzer in-flight performance and science results. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 547-578	2.6	127
309	Geomagnetic response to magnetic clouds of different polarity. *Geophysical Research Letters*, **1998**, 25, 2999-3002	4.9	126
308	Magnetic fields in the ionosphere of Venus. *Space Science Reviews*, **1991**, 55, 201	7.5	119
307	On the origin of aurorae on Mars. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	118
306	Characteristics of the Marslike limit of the Venus-solar wind interaction. *Journal of Geophysical Research*, **1987**, 92, 8545		116
305	A post-Pioneer Venus reassessment of the Martian dayside ionosphere as observed by radio occultation methods. *Journal of Geophysical Research*, **1990**, 95, 14829		115
304	Solar cycle changes in coronal holes and space weather cycles. *Journal of Geophysical Research*, **2002**, 107, SMP 3-1-SMP 3-12		112
303	RECONSTRUCTING CORONAL MASS EJECTIONS WITH COORDINATED IMAGING AND IN SITU OBSERVATIONS: GLOBAL STRUCTURE, KINEMATICS, AND IMPLICATIONS FOR SPACE WEATHER FORECASTING. *Astrophysical Journal*, **2010**, 722, 1762-1777	4.7	111
302	Upstream waves at Mars: Phobos observations. *Geophysical Research Letters*, **1990**, 17, 897-900	4.9	111

301	Comparing Solar Minimum 23/24 with Historical Solar Wind Records at 1 AU. *Solar Physics*, **2011**, 274, 321-344	2.6	110
300	How unprecedented a solar minimum?. *Reviews of Geophysics*, **2010**, 48,	23.1	110
299	Multispacecraft observation of magnetic cloud erosion by magnetic reconnection during propagation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		107
298	ON SUN-TO-EARTH PROPAGATION OF CORONAL MASS EJECTIONS. *Astrophysical Journal*, **2013**, 769, 45	4.7	107
297	Electron heat flux dropouts in the solar wind: Evidence for interplanetary magnetic field reconnection?. *Journal of Geophysical Research*, **1989**, 94, 6907-6916		105
296	Charge exchange near Mars: The solar wind absorption and energetic neutral atom production. *Journal of Geophysical Research*, **1997**, 102, 22183-22197		104
295	THE VERY UNUSUAL INTERPLANETARY CORONAL MASS EJECTION OF 2012 JULY 23: A BLAST WAVE MEDIATED BY SOLAR ENERGETIC PARTICLES. *Astrophysical Journal*, **2013**, 770, 38	4.7	103
294	Mars solar wind interaction: Formation of the Martian corona and atmospheric loss to space. *Journal of Geophysical Research*, **2007**, 112,		101
293	Merging of coronal and heliospheric numerical two-dimensional MHD models. *Journal of Geophysical Research*, **2002**, 107, SSH 14-1-SSH 14-11		101
292	Strong plume fluxes at Mars observed by MAVEN: An important planetary ion escape channel. *Geophysical Research Letters*, **2015**, 42, 8942-8950	4.9	100
291	Plasma acceleration above martian magnetic anomalies. *Science*, **2006**, 311, 980-3	33.3	100
290	QUIET-TIME INTERPLANETARY ~2-20 keV SUPERHALO ELECTRONS AT SOLAR MINIMUM. *Astrophysical Journal Letters*, **2012**, 753, L23	7.9	98
289	Solar and interplanetary control of the location of the Venus bow shock. *Journal of Geophysical Research*, **1988**, 93, 5461		98
288	Holes in the nightside ionosphere of Venus. *Journal of Geophysical Research*, **1982**, 87, 199		97
287	The ancient oxygen exosphere of Mars: Implications for atmosphere evolution. *Journal of Geophysical Research*, **1993**, 98, 10915		96
286	The magnetotail of Mars: Phobos observations. *Geophysical Research Letters*, **1990**, 17, 885-888	4.9	96
285	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. *Geophysical Research Letters*, **2015**, 42, 9142-9148	4.9	95
284	Global MHD Modeling of the Solar Corona and Inner Heliosphere for the Whole Heliosphere Interval. *Solar Physics*, **2011**, 274, 361-377	2.6	95

283	MULTI-POINT SHOCK AND FLUX ROPE ANALYSIS OF MULTIPLE INTERPLANETARY CORONAL MASS EJECTIONS AROUND 2010 AUGUST 1 IN THE INNER HELIOSPHERE. *Astrophysical Journal*, **2012**, 758, 10	4.7	95
282	Cassini Ion and Neutral Mass Spectrometer data in Titan's upper atmosphere and exosphere: Observation of a suprathermal corona. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		95
281	ROTATION OF CORONAL MASS EJECTIONS DURING ERUPTION. *Astrophysical Journal*, **2009**, 697, 1918-1927	4.7	94
280	Carbon dioxide photoelectron energy peaks at Mars. *Icarus*, **2006**, 182, 371-382	3.8	94
279	A comparison of global models for the solar wind interaction with Mars. *Icarus*, **2010**, 206, 139-151	3.8	92
278	INTERACTIONS BETWEEN CORONAL MASS EJECTIONS VIEWED IN COORDINATED IMAGING AND IN SITU OBSERVATIONS. *Astrophysical Journal Letters*, **2012**, 746, L15	7.9	91
277	Observations of large scale steady magnetic fields in the dayside Venus ionosphere. *Geophysical Research Letters*, **1980**, 7, 917-920	4.9	91
276	Mass composition of the escaping plasma at Mars. *Icarus*, **2006**, 182, 320-328	3.8	89
275	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. *Space Science Reviews*, **2015**, 195, 357-422	7.5	88
274	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. *Planetary and Space Science*, **2008**, 56, 873-880	2	88
273	STEREO observations of interplanetary coronal mass ejections and prominence deflection during solar minimum period. *Annales Geophysicae*, **2009**, 27, 4491-4503	2	87
272	Statistical study of magnetic cloud erosion by magnetic reconnection. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 43-60	2.6	84
271	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. *Solar Physics* , **2009**, 256, 307-326	2.6	83
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264	A comparison of induced magnetotails of planetary bodies: Venus, Mars, and Titan. *Journal of Geophysical Research*, **1991**, 96, 11199		74
263	On the sources of interplanetary shocks at 0.72 AU. *Journal of Geophysical Research*, **1994**, 99, 11		73
262	Interplanetary Signatures of Unipolar Streamers and the Origin of the Slow Solar Wind. *Solar Physics*, **2012**, 277, 355-373	2.6	72
261	Interplanetary magnetic field control of magnetotail magnetic field geometry: IMP 8 observations. *Journal of Geophysical Research*, **1994**, 99, 11113		72
260	PLASMA AND MAGNETIC FIELD CHARACTERISTICS OF SOLAR CORONAL MASS EJECTIONS IN RELATION TO GEOMAGNETIC STORM INTENSITY AND VARIABILITY. *Astrophysical Journal Letters*, **2015**, 809, L34	7.9	71
259	SOLAR SOURCE AND HELIOSPHERIC CONSEQUENCES OF THE 2010 APRIL 3 CORONAL MASS EJECTION: A COMPREHENSIVE VIEW. *Astrophysical Journal*, **2011**, 734, 84	4.7	71
258	The IMPACT Solar Wind Electron Analyzer (SWEA). *Space Science Reviews*, **2008**, 136, 227-239	7.5	71
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256	Titan's thermospheric response to various plasma environments. *Journal of Geophysical Research*, **2011**, 116,		67
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254	LOW-LATITUDE CORONAL HOLES AT THE MINIMUM OF THE 23rd SOLAR CYCLE. *Astrophysical Journal*, **2010**, 712, 813-818	4.7	65
253	The solar cycle dependence of the location and shape of the Venus bow shock. *Journal of Geophysical Research*, **1990**, 95, 14961		65
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250	Observations of ion cyclotron waves in the solar wind near 0.3 AU. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		62
249	Multispacecraft Observations of Magnetic Clouds and Their Solar Origins between 19 and 23 May 2007. *Solar Physics*, **2009**, 254, 325-344	2.6	62
248	The Solar Wind at 1 AU During the Declining Phase of Solar Cycle 23: Comparison of 3D Numerical Model Results with Observations. *Solar Physics*, **2009**, 254, 155-183	2.6	59

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240	Asymmetries in the location of the Venus ionopause. *Journal of Geophysical Research*, **1988**, 93, 3927		56
239	MAVEN observations of the solar cycle 24 space weather conditions at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 2768-2794	2.6	55
238	The MAVEN Solar Energetic Particle Investigation. *Space Science Reviews*, **2015**, 195, 153-172	7.5	55
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233	Solar Cycle 21 effects on the interplanetary magnetic field and related parameters at 0.7 and 1.0 AU. *Journal of Geophysical Research*, **1993**, 98, 5559-5572		53
232	A model of the ion wake of Mars. *Geophysical Research Letters*, **1990**, 17, 869-872	4.9	53
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229	Atmospheric erosion of Venus during stormy space weather. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		51
228	Hemispheric asymmetry of the magnetic field wrapping pattern in the Venusian magnetotail. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	51
227	Induced magnetospheres. *Advances in Space Research*, **2004**, 33, 1905-1912	2.4	51
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224	Some expected impacts of a solar energetic particle event at Mars. *Journal of Geophysical Research*, **2002**, 107, SIA 5-1		50
223	Sputter contribution to the atmospheric corona on Mars. *Journal of Geophysical Research*, **1998**, 103, 3649-3653		50
222	Observations and Impacts of the 10 September 2017 Solar Events at Mars: An Overview and Synthesis of the Initial Results. *Geophysical Research Letters*, **2018**, 45, 8871-8885	4.9	49
221	Comparison of Observations at ACE and Ulysses with Enlil Model Results: Stream Interaction Regions During Carrington Rotations 2016 2018. *Solar Physics*, **2011**, 273, 179-203	2.6	49
220	Coronal mass ejection and stream interaction region characteristics and their potential geomagnetic effectiveness. *Journal of Geophysical Research*, **1995**, 100, 16999		49
219	Waves upstream and downstream of interplanetary shocks driven by coronal mass ejections. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		48
218	Effects of the Weak Polar Fields of Solar Cycle 23: Investigation Using OMNI for the STEREO Mission Period. *Solar Physics*, **2009**, 256, 345-363	2.6	48
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215	Space weather at Venus and its potential consequences for atmosphere evolution. *Journal of Geophysical Research*, **2007**, 112,		47
214	Multispacecraft recovery of a magnetic cloud and its origin from magnetic reconnection on the Sun. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		46
213	Cone model-based SEP event calculations for applications to multipoint observations. *Advances in Space Research*, **2010**, 46, 1-21	2.4	46
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209	Comparative pick-up ion distributions at Mars and Venus: Consequences for atmospheric deposition and escape. *Planetary and Space Science*, **2015**, 115, 35-47	2	42
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201	Venus O+ pickup ions: Collected PVO results and expectations for Venus Express. *Planetary and Space Science*, **2006**, 54, 1457-1471	2	39
200	STEREOObservations of Interplanetary Coronal Mass Ejections in 2007–2016. *Astrophysical Journal*, **2018**, 855, 114	4.7	38
199	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4559-4568	4.9	38
198	The importance of pickup oxygen ion precipitation to the Mars upper atmosphere under extreme solar wind conditions. *Geophysical Research Letters*, **2013**, 40, 1922-1927	4.9	38
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194	Stream Interactions and Interplanetary Coronal Mass Ejections at 0.72 AU. *Solar Physics*, **2008**, 249, 85-101	2.6	37

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185	Comparisons of peak ionosphere pressures at Mars and Venus with incident solar wind dynamic Pressure. *Journal of Geophysical Research*, **1992**, 97, 1017		33
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181	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. *Icarus*, **2006**, 182, 396-405	3.8	32
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172	Interaction of the solar wind with the planet Mars: Phobos 2 magnetic field observations. *Planetary and Space Science*, **1991**, 39, 75-81	2	30
171	Martian magnetic storms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 6185-6209	2.6	29
170	Escape probability of Martian atmospheric ions: Controlling effects of the electromagnetic fields. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		29
169	Ion escape at Mars: Comparison of a 3-D hybrid simulation with Mars Express IMA/ASPERA-3 measurements. *Icarus*, **2006**, 182, 350-359	3.8	29
168	Solar cycle control of the magnetic cloud polarity and the geoeffectiveness. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2004**, 66, 323-331	2	29
167	Asymmetries in the location of the Venus and Mars bow shock. *Geophysical Research Letters*, **1991**, 18, 127-129	4.9	29
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165	Observations of ICMEs and ICME-like Solar Wind Structures from 2007 2010 Using Near-Earth and STEREO Observations. *Solar Physics*, **2012**, 281, 391	2.6	28
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161	Seasonal Variability of Neutral Escape from Mars as Derived From MAVEN Pickup Ion Observations. *Journal of Geophysical Research E: Planets*, **2018**, 123, 1192-1202	4.1	27
160	Shock Connectivity and the Late Cycle 24 Solar Energetic Particle Events in July and September 2017. *Space Weather*, **2018**, 16, 557-568	3.7	27
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