Michael A Janssen

List of Publications by Year
in descending order

53	2,823	172457	197818
papers	citations	29 h-index	49 g-index

55	55	55	1911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cassini Radar Views the Surface of Titan. Science, 2005, 308, 970-974.	12.6	231
2	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
3	Dunes on Titan observed by Cassini Radar. Icarus, 2008, 194, 690-703.	2.5	193
4	MIRO: Microwave Instrument for Rosetta Orbiter. Space Science Reviews, 2007, 128, 561-597.	8.1	173
5	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. Planetary and Space Science, 2007, 55, 2025-2036.	1.7	168
6	Radar: The Cassini Titan Radar Mapper. Space Science Reviews, 2004, 115, 71-110.	8.1	162
7	Distribution and interplay of geologic processes on Titan from Cassini radar data. Icarus, 2010, 205, 540-558.	2.5	122
8	Ultra-relativistic electrons in Jupiter's radiation belts. Nature, 2002, 415, 987-991.	27.8	109
9	Determining Titan surface topography from Cassini SAR data. Icarus, 2009, 202, 584-598.	2.5	108
10	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. Geophysical Research Letters, 2017, 44, 5317-5325.	4.0	108
11	The water abundance in Jupiterâ€™s equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
12	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. Science, 2005, 310, 92-95.	12.6	78
13	Cassini RADAR observations of Enceladus, Tethys, Dione, Rhea, Iapetus, Hyperion, and Phoebe. Icarus, 2006, 183, 479-490.	2.5	76
14	MWR: Microwave Radiometer for the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 139-185.	8.1	64
15	Mapping and interpretation of Sinlap crater on Titan using Cassini VIMS and RADAR data. Journal of Geophysical Research, 2008, 113, .	3.3	60
16	Microwave dielectric constant of Titanâ€relevant materials. Geophysical Research Letters, 2008, 35, .	4.0	54
17	Microwave remote sensing of Jupiter's atmosphere from an orbiting spacecraft. Icarus, 2005, 173, 447-453.	2.5	52
18	Prevalent lightning sferics at 600 megahertz near Jupiterâ€™s poles. Nature, 2018, 558, 87-90.	27.8	52

#	Article	IF	Citations
19	Interpretation of combined infrared, submillimeter, and millimeter thermal flux data obtained during the Rosetta fly-by of Asteroid (21) Lutetia. Icarus, 2012, 221, 395-404.	2.5	47
20	Saturnâ€™s thermal emission at 2.2-cm wavelength as imaged by the Cassini RADAR radiometer. Icarus, 2013, 226, 522-535.	2.5	45
21	Composition, seasonal change, and bathymetry of Ligeia Mare, Titan, derived from its microwave thermal emission. Journal of Geophysical Research E: Planets, 2016, 121, 233-251.	3.6	44
22	Dark side of comet 67P/Churyumov-Gerasimenko in Aug.â€“Oct. 2014. Astronomy and Astrophysics, 2015, 583, A28.	5.1	42
23	Thermally anomalous features in the subsurface of Enceladusâ€™s south polar terrain. Nature Astronomy, 2017, 1, .	10.1	41
24	Continuum and spectroscopic observations of asteroid (21) Lutetia at millimeter and submillimeter wavelengths with the MIRO instrument on the Rosetta spacecraft. Planetary and Space Science, 2012, 66, 31-42.	1.7	38
25	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. Icarus, 2016, 270, 130-161.	2.5	38
26	Titan as Revealed by the Cassini Radar. Space Science Reviews, 2019, 215, 1.	8.1	34
27	The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. Journal of Geophysical Research E: Planets, 2018, 123, 489-507.	3.6	33
28	Implications of the ammonia distribution on Jupiter from 1 to 100Âbars as measured by the Juno microwave radiometer. Geophysical Research Letters, 2017, 44, 7676-7685.	4.0	31
29	Millimeter and submillimeter measurements of asteroid (2867) Steins during the Rosetta fly-by. Planetary and Space Science, 2010, 58, 1077-1087.	1.7	30
30	Cassini RADAR Sequence Planning and Instrument Performance. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1777-1795.	6.3	24
31	Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006404.	3.6	24
32	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
33	Reconciling main belt asteroid spectral flux density measurements with a self-consistent thermophysical model. Icarus, 2013, 226, 1086-1102.	2.5	22
34	Compositional variations of Titan's impact craters indicates active surface erosion. Icarus, 2019, 321, 508-521.	2.5	19
35	A large-scale anomaly in Enceladusâ€™ microwave emission. Icarus, 2015, 257, 88-102.	2.5	15
36	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	4.0	15

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37	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14
38	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006399.	3.6	13
39	Multifrequency analysis of the Jovian electron-belt radiation during theCassiniflyby of Jupiter. Astronomy and Astrophysics, 2014, 568, A61.	5.1	12
40	Angular Dependence and Spatial Distribution of Jupiter's Centimeterâ€Wave Thermal Emission From Juno's Microwave Radiometer. Earth and Space Science, 2020, 7, e2020EA001254.	2.6	12
41	Microwave Radiometers from 0.6 to 22 GHz for Juno, A Polar Orbiter around Jupiter. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	11
42	Jupiter Lightningâ€Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. Geophysical Research Letters, 2018, 45, 7268-7276.	4.0	11
43	First look at Jupiter's synchrotron emission from Juno's perspective. Geophysical Research Letters, 2017, 44, 8676-8684.	4.0	10
44	Rhea's subsurface probed by the Cassini radiometer: Insights into its thermal, structural, and compositional properties. Icarus, 2020, 352, 113947.	2.5	9
45	A re-analysis of the Jovian radio emission as seen by Cassini-RADAR and evidence for time variability. Icarus, 2019, 321, 994-1012.	2.5	8
46	Geomorphological map of the South Belet Region of Titan. Icarus, 2021, 366, 114516.	2.5	7
47	High-Precision Laboratory Measurements Supporting Retrieval of Water Vapor, Gaseous Ammonia, and Aqueous Ammonia Clouds with the Juno Microwave Radiometer (MWR). Space Science Reviews, 2017, 213, 187-204.	8.1	5
48	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
49	Juno at Jupiter: The Juno microwave radiometer (MWR). , 2014, , .		2
50	Sub-millimeter observation of water vapor at 557GHz in Comet C/2002 T7 (LINEAR). Icarus, 2014, 239, 141-153.	2.5	2
51	Towards a fast background radiation subtraction technique for the Juno mission. , 2016, , .		2
52	High-Precision Laboratory Measurements Supporting Retrieval of Water Vapor, Gaseous Ammonia, and Aqueous Ammonia Clouds with the Juno Microwave Radiometer (MWR). , 2016, , 627-644.		0
53	MWR: Microwave Radiometer for the Juno Mission to Jupiter. , 2017, , 123-169.		0