

Michael A Janssen

List of Publications by Year in descending order

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53
papers

2,823
citations

172457

29
h-index

197818

49
g-index

55
all docs

55
docs citations

55
times ranked

1911
citing authors

#	ARTICLE	IF	CITATIONS
1	Geomorphological map of the South Belet Region of Titan. <i>Icarus</i> , 2021, 366, 114516.	2.5	7
2	Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices. <i>Science</i> , 2021, 374, 968-972.	12.6	23
3	Rhea's subsurface probed by the Cassini radiometer: Insights into its thermal, structural, and compositional properties. <i>Icarus</i> , 2020, 352, 113947.	2.5	9
4	Angular Dependence and Spatial Distribution of Jupiter's Centimeter-Wave Thermal Emission From Juno's Microwave Radiometer. <i>Earth and Space Science</i> , 2020, 7, e2020EA001254.	2.6	12
5	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. <i>Earth and Space Science</i> , 2020, 7, e2020EA001229.	2.6	3
6	Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006404.	3.6	24
7	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006399.	3.6	13
8	The water abundance in Jupiter's equatorial zone. <i>Nature Astronomy</i> , 2020, 4, 609-616.	10.1	96
9	Titan as Revealed by the Cassini Radar. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	34
10	A re-analysis of the Jovian radio emission as seen by Cassini-RADAR and evidence for time variability. <i>Icarus</i> , 2019, 321, 994-1012.	2.5	8
11	Compositional variations of Titan's impact craters indicates active surface erosion. <i>Icarus</i> , 2019, 321, 508-521.	2.5	19
12	The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 489-507.	3.6	33
13	Jupiter Lightning-Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. <i>Geophysical Research Letters</i> , 2018, 45, 7268-7276.	4.0	11
14	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. <i>Nature</i> , 2018, 558, 87-90.	27.8	52
15	Multiple-wavelength sensing of Jupiter during the Juno mission's first perijove passage. <i>Geophysical Research Letters</i> , 2017, 44, 4607-4614.	4.0	14
16	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. <i>Geophysical Research Letters</i> , 2017, 44, 5317-5325.	4.0	108
17	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	12.6	229
18	First look at Jupiter's synchrotron emission from Juno's perspective. <i>Geophysical Research Letters</i> , 2017, 44, 8676-8684.	4.0	10

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19	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. <i>Geophysical Research Letters</i> , 2017, 44, 4660-4668.	4.0	15
20	MWR: Microwave Radiometer for the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 139-185.	8.1	64
21	Thermally anomalous features in the subsurface of Enceladus's south polar terrain. <i>Nature Astronomy</i> , 2017, 1, .	10.1	41
22	Implications of the ammonia distribution on Jupiter from 1 to 100 Åbars as measured by the Juno microwave radiometer. <i>Geophysical Research Letters</i> , 2017, 44, 7676-7685.	4.0	31
23	High-Precision Laboratory Measurements Supporting Retrieval of Water Vapor, Gaseous Ammonia, and Aqueous Ammonia Clouds with the Juno Microwave Radiometer (MWR). <i>Space Science Reviews</i> , 2017, 213, 187-204.	8.1	5
24	MWR: Microwave Radiometer for the Juno Mission to Jupiter. , 2017, , 123-169.		0
25	Towards a fast background radiation subtraction technique for the Juno mission. , 2016, , .		2
26	Geomorphological map of the Afekan Crater region, Titan: Terrain relationships in the equatorial and mid-latitude regions. <i>Icarus</i> , 2016, 270, 130-161.	2.5	38
27	Composition, seasonal change, and bathymetry of Ligeia Mare, Titan, derived from its microwave thermal emission. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 233-251.	3.6	44
28	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
29	Dark side of comet 67P/Churyumov-Gerasimenko in Aug.â€“Oct. 2014. <i>Astronomy and Astrophysics</i> , 2015, 583, A28.	5.1	42
30	A large-scale anomaly in Enceladus's microwave emission. <i>Icarus</i> , 2015, 257, 88-102.	2.5	15
31	Juno at Jupiter: The Juno microwave radiometer (MWR). , 2014, , .		2
32	Sub-millimeter observation of water vapor at 557GHz in Comet C/2002 T7 (LINEAR). <i>Icarus</i> , 2014, 239, 141-153.	2.5	2
33	Multifrequency analysis of the Jovian electron-belt radiation during the Cassini flyby of Jupiter. <i>Astronomy and Astrophysics</i> , 2014, 568, A61.	5.1	12
34	Saturn's thermal emission at 2.2-cm wavelength as imaged by the Cassini RADAR radiometer. <i>Icarus</i> , 2013, 226, 522-535.	2.5	45
35	Reconciling main belt asteroid spectral flux density measurements with a self-consistent thermophysical model. <i>Icarus</i> , 2013, 226, 1086-1102.	2.5	22
36	Interpretation of combined infrared, submillimeter, and millimeter thermal flux data obtained during the Rosetta fly-by of Asteroid (21) Lutetia. <i>Icarus</i> , 2012, 221, 395-404.	2.5	47

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37	Continuum and spectroscopic observations of asteroid (21) Lutetia at millimeter and submillimeter wavelengths with the MIRO instrument on the Rosetta spacecraft. <i>Planetary and Space Science</i> , 2012, 66, 31-42.	1.7	38
38	Distribution and interplay of geologic processes on Titan from Cassini radar data. <i>Icarus</i> , 2010, 205, 540-558.	2.5	122
39	Millimeter and submillimeter measurements of asteroid (2867) Steins during the Rosetta fly-by. <i>Planetary and Space Science</i> , 2010, 58, 1077-1087.	1.7	30
40	Cassini RADAR Sequence Planning and Instrument Performance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1777-1795.	6.3	24
41	Determining Titan surface topography from Cassini SAR data. <i>Icarus</i> , 2009, 202, 584-598.	2.5	108
42	Dunes on Titan observed by Cassini Radar. <i>Icarus</i> , 2008, 194, 690-703.	2.5	193
43	Mapping and interpretation of Sinlap crater on Titan using Cassini VIMS and RADAR data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
44	Microwave dielectric constant of Titan-relevant materials. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	54
45	Microwave Radiometers from 0.6 to 22 GHz for Juno, A Polar Orbiter around Jupiter. <i>Aerospace Conference Proceedings IEEE</i> , 2008, , .	0.0	11
46	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. <i>Planetary and Space Science</i> , 2007, 55, 2025-2036.	1.7	168
47	MIRO: Microwave Instrument for Rosetta Orbiter. <i>Space Science Reviews</i> , 2007, 128, 561-597.	8.1	173
48	Cassini RADAR observations of Enceladus, Tethys, Dione, Rhea, Iapetus, Hyperion, and Phoebe. <i>Icarus</i> , 2006, 183, 479-490.	2.5	76
49	Microwave remote sensing of Jupiter's atmosphere from an orbiting spacecraft. <i>Icarus</i> , 2005, 173, 447-453.	2.5	52
50	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
51	Cassini Radar Views the Surface of Titan. <i>Science</i> , 2005, 308, 970-974.	12.6	231
52	Radar: The Cassini Titan Radar Mapper. <i>Space Science Reviews</i> , 2004, 115, 71-110.	8.1	162
53	Ultra-relativistic electrons in Jupiter's radiation belts. <i>Nature</i> , 2002, 415, 987-991.	27.8	109