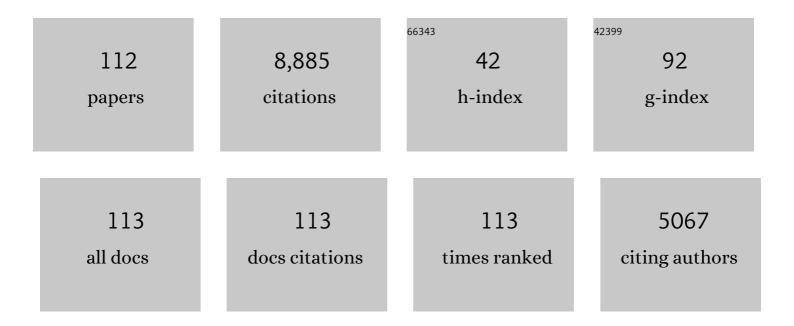
Jessica J Barnes

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan POlar scout/orbitEr and in situ lake lander and DrONe explorer (POSEIDON). Experimental Astronomy, 2022, 54, 911-973.	3.7	5
2	Near-surface structure of a large linear dune and an associated crossing dune of the northern Namib Sand Sea from Ground Penetrating Radar: Implications for the history of large linear dunes on Earth and Titan. Aeolian Research, 2022, 57, 100813.	2.7	3
3	Constraints on Sub-Neptune Planet Candidate KOI-972.01 via Joint Variability/Gravity-darkening Analysis. Planetary Science Journal, 2021, 2, 35.	3.6	0
4	Selection and Characteristics of the Dragonfly Landing Site near Selk Crater, Titan. Planetary Science Journal, 2021, 2, 24.	3.6	36
5	Solving the Alhazen–Ptolemy Problem: Determining Specular Points on Spherical Surfaces for Radiative Transfer of Titan's Seas. Planetary Science Journal, 2021, 2, 63.	3.6	0
6	Lower Surface Temperature at Bright Ephemeral Feature Site on Titan's North Pole. Geophysical Research Letters, 2021, 48, e2020GL091708.	4.0	3
7	Titan: Earth-like on the Outside, Ocean World on the Inside. Planetary Science Journal, 2021, 2, 112.	3.6	21
8	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. Planetary Science Journal, 2021, 2, 130.	3.6	80
9	Exploring Tidal Obliquity Variations with SMERCURY-T. Planetary Science Journal, 2021, 2, 187.	3.6	1
10	Protein Stability in Titan's Subsurface Water Ocean. Astrobiology, 2020, 20, 190-198.	3.0	1
11	Obliquity Evolution of the Potentially Habitable Exoplanet Kepler-62f. Astrobiology, 2020, 20, 73-90.	3.0	11
12	Dust Devils on Titan. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006238.	3.6	3
13	KELT-9 b's Asymmetric TESS Transit Caused by Rapid Stellar Rotation and Spin–Orbit Misalignment. Astronomical Journal, 2020, 160, 4.	4.7	37
14	Retrograde-rotating Exoplanets Experience Obliquity Excitations in an Eccentricity-enabled Resonance. Planetary Science Journal, 2020, 1, 8.	3.6	4
15	Diffraction-limited Titan Surface Imaging from Orbit Using Near-infrared Atmospheric Windows. Planetary Science Journal, 2020, 1, 24.	3.6	2
16	Spatio-temporal Variation of Bright Ephemeral Features on Titan's North Pole. Planetary Science Journal, 2020, 1, 31.	3.6	7
17	Tidal Currents Detected in Kraken Mare Straits from Cassini VIMS Sun Glitter Observations. Planetary Science Journal, 2020, 1, 35.	3.6	1
18	Dealing With δ-Scuti Variables: Transit Light Curve Analysis of Planets Orbiting Rapidly Rotating, Seismically Active A/F Stars. Astronomical Journal, 2019, 158, 88.	4.7	9

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19	Hydrogen sensing in Titan's atmosphere: Motivations and techniques. Planetary and Space Science, 2019, 174, 1-7.	1.7	5
20	The case for seasonal surface changes at Titan's lake district. Nature Astronomy, 2019, 3, 506-510.	10.1	19
21	Using Elliptical Fourier Descriptor Analysis (EFDA) to Quantify Titan Lake Morphology. Astronomical Journal, 2019, 158, 230.	4.7	5
22	Observational Evidence for Summer Rainfall at Titan's North Pole. Geophysical Research Letters, 2019, 46, 1205-1212.	4.0	14
23	A pilot investigation to constrain the presence of ring systems around transiting exoplanets. New Astronomy, 2018, 60, 88-94.	1.8	26
24	Strategies for Detecting Biological Molecules on Titan. Astrobiology, 2018, 18, 571-585.	3.0	33
25	Large catchment area recharges Titan's Ontario Lacus. Icarus, 2018, 299, 331-338.	2.5	13
26	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. Planetary and Space Science, 2018, 155, 73-90.	1.7	26
27	LASR-guided stellar photometric variability subtraction. Astronomy and Astrophysics, 2018, 615, A128.	5.1	5
28	Titan's Twilight and Sunset Solar Illumination. Astronomical Journal, 2018, 156, 247.	4.7	3
29	Spherical Radiative Transfer in C++ (SRTC++): A Parallel Monte Carlo Radiative Transfer Model for Titan. Astronomical Journal, 2018, 155, 264.	4.7	6
30	Meridional variation in tropospheric methane on Titan observed with AO spectroscopy at Keck and VLT. Icarus, 2016, 270, 376-388.	2.5	24
31	COMPOSITIONAL SIMILARITIES AND DISTINCTIONS BETWEEN TITAN'S EVAPORITIC TERRAINS. Astrophysical Journal, 2016, 821, 17.	4.5	21
32	Obliquity Variability of a Potentially Habitable Early Venus. Astrobiology, 2016, 16, 487-499.	3.0	15
33	FOLLOW-UP OBSERVATIONS OF PTFO 8-8695: A 3 MYR OLD T TAURI STAR HOSTING A JUPITER-MASS PLANETARY CANDIDATE. Astrophysical Journal, 2015, 809, 42.	4.5	40
34	SPIN–ORBIT MISALIGNMENT OF TWO-PLANET-SYSTEM KOI-89 VIA GRAVITY DARKENING. Astrophysical Journal, 2015, 814, 67.	4.5	42
35	Global contraction/expansion and polar lithospheric thinning on Titan from patterns of tectonism. Journal of Geophysical Research E: Planets, 2015, 120, 1220-1236.	3.6	24
36	PROBABLE SPIN–ORBIT ALIGNED SUPER-EARTH PLANET CANDIDATE KOI2138. Astrophysical Journal Letters, 2015, 808, L38.	8.3	34

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37	Possible temperate lakes on Titan. Icarus, 2015, 257, 313-323.	2.5	13
38	Production and global transport of Titan's sand particles. Planetary Science, 2015, 4, .	1.5	35
39	Titan's surface and atmosphere as seen by the vims hyperspectral imager onboard cassini. , 2014, , .		0
40	Longevity of moons around habitable planets. International Journal of Astrobiology, 2014, 13, 324-336.	1.6	30
41	SPIN-ORBIT ALIGNMENT FOR 110 DAY PERIOD KOI368.01 FROM GRAVITY DARKENING. Astrophysical Journal, 2014, 786, 131.	4.5	24
42	Global mapping and characterization of Titan's dune fields with Cassini: Correlation between RADAR and VIMS observations. Icarus, 2014, 230, 168-179.	2.5	68
43	Transient features in a Titan sea. Nature Geoscience, 2014, 7, 493-496.	12.9	43
44	Cassini/VIMS observes rough surfaces on Titan's Punga Mare in specular reflection. Planetary Science, 2014, 3, 3.	1.5	31
45	Evidence of Titan's climate history from evaporite distribution. Icarus, 2014, 243, 191-207.	2.5	62
46	Subsidence-induced methane clouds in Titan's winter polar stratosphere and upper troposphere. Icarus, 2014, 243, 129-138.	2.5	24
47	Precipitation-induced surface brightenings seen on Titan by Cassini VIMS and ISS. Planetary Science, 2013, 2, .	1.5	45
48	Dunes on planet Tatooine: Observation of barchan migration at the Star Wars film set in Tunisia. Geomorphology, 2013, 201, 264-271.	2.6	28
49	Cryovolcanism on Titan: New results from Cassini RADAR and VIMS. Journal of Geophysical Research E: Planets, 2013, 118, 416-435.	3.6	128
50	A global topographic map of Titan. Icarus, 2013, 225, 367-377.	2.5	70
51	A TRANSMISSION SPECTRUM OF TITAN'S NORTH POLAR ATMOSPHERE FROM A SPECULAR REFLECTION OF THE SUN. Astrophysical Journal, 2013, 777, 161.	4.5	23
52	MEASUREMENT OF SPIN-ORBIT MISALIGNMENT AND NODAL PRECESSION FOR THE PLANET AROUND PRE-MAIN-SEQUENCE STAR PTFO 8-8695 FROM GRAVITY DARKENING. Astrophysical Journal, 2013, 774, 53.	4.5	84
53	MOSTSPACE TELESCOPE PHOTOMETRY OF THE 2010 JANUARY TRANSIT OF EXTRASOLAR PLANET HD80606b. Astrophysical Journal, 2013, 762, 55.	4.5	37
54	OUTCOMES AND DURATION OF TIDAL EVOLUTION IN A STAR-PLANET-MOON SYSTEM. Astrophysical Journal, 2012, 754, 51.	4.5	70

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55	Global mapping of Titan′s surface using an empirical processing method for the atmospheric and photometric correction of Cassini/VIMS images. Planetary and Space Science, 2012, 73, 178-190.	1.7	24
56	Modeling specular reflections from hydrocarbon lakes on Titan. Icarus, 2012, 220, 744-751.	2.5	31
57	Edge detection applied to Cassini images reveals no measurable displacement of Ontario Lacus' margin between 2005 and 2010. Journal of Geophysical Research, 2012, 117, .	3.3	18
58	Observations of Titan's Northern lakes at 5μm: Implications for the organic cycle and geology. Icarus, 2012, 221, 768-786.	2.5	72
59	<i>CASSINI</i> VIMS OBSERVATIONS SHOW ETHANE IS PRESENT IN TITAN'S RAINFALL. Astrophysical Journal Letters, 2012, 761, L24.	8.3	10
60	THE EVIL-MC MODEL FOR ELLIPSOIDAL VARIATIONS OF PLANET-HOSTING STARS AND APPLICATIONS TO THE HAT-P-7 SYSTEM. Astrophysical Journal, 2012, 751, 112.	4.5	62
61	Obliquity variations of a moonless Earth. Icarus, 2012, 217, 77-87.	2.5	75
62	Geomorphological significance of Ontario Lacus on Titan: Integrated interpretation of Cassini VIMS, ISS and RADAR data and comparison with the Etosha Pan (Namibia). Icarus, 2012, 218, 788-806.	2.5	55
63	Titan's fluvial valleys: Morphology, distribution, and spectral properties. Planetary and Space Science, 2012, 60, 34-51.	1.7	98
64	Mapping Titan's surface features within the visible spectrum via Cassini VIMS. Planetary and Space Science, 2012, 60, 52-61.	1.7	25
65	Dissipation of Titan's north polar cloud at northern spring equinox. Planetary and Space Science, 2012, 60, 86-92.	1.7	33
66	A newly discovered impact crater in Titan's Senkyo: Cassini VIMS observations and comparison with other impact features. Planetary and Space Science, 2012, 60, 18-25.	1.7	18
67	AVIATR—Aerial Vehicle for In-situ and Airborne Titan Reconnaissance. Experimental Astronomy, 2012, 33, 55-127.	3.7	45
68	Ice rafts not sails: Floating the rocks at Racetrack Playa. American Journal of Physics, 2011, 79, 37-42.	0.7	18
69	On Titan's Xanadu region. Icarus, 2011, 214, 556-560.	2.5	11
70	Titan's cloud seasonal activity from winter to spring with Cassini/VIMS. Icarus, 2011, 216, 89-110.	2.5	68
71	Organic sedimentary deposits in Titan's dry lakebeds: Probable evaporite. Icarus, 2011, 216, 136-140.	2.5	96
72	Wave constraints for Titan's Jingpo Lacus and Kraken Mare from VIMS specular reflection lightcurves. Icarus, 2011, 211, 722-731.	2.5	38

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73	Meteorological Conditions at Racetrack Playa, Death Valley National Park: Implications for Rock Production and Transport. Journal of Applied Meteorology and Climatology, 2011, 50, 2361-2375.	1.5	8
74	Rapid and Extensive Surface Changes Near Titan's Equator: Evidence of April Showers. Science, 2011, 331, 1414-1417.	12.6	184
75	MEASUREMENT OF THE SPIN-ORBIT MISALIGNMENT OF KOI-13.01 FROM ITS GRAVITY-DARKENED <i>KEPLER</i> TRANSIT LIGHTCURVE. Astrophysical Journal, Supplement Series, 2011, 197, 10.	7.7	120
76	Detection and mapping of hydrocarbon deposits on Titan. Journal of Geophysical Research, 2010, 115, .	3.3	147
77	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titan's surface properties. Icarus, 2010, 208, 366-384.	2.5	8
78	Geology of the Selk crater region on Titan from Cassini VIMS observations. Icarus, 2010, 208, 905-912.	2.5	44
79	Observations of a stationary mid-latitude cloud system on Titan. Icarus, 2010, 208, 868-877.	2.5	17
80	Using satellites to probe extrasolar planet formation. Proceedings of the International Astronomical Union, 2010, 6, .	0.0	2
81	Inexpensive Time-Lapse Digital Cameras for Studying Transient Meteorological Phenomena: Dust Devils and Playa Flooding. Journal of Atmospheric and Oceanic Technology, 2010, 27, 246-256.	1.3	25
82	Specular reflection on Titan: Liquids in Kraken Mare. Geophysical Research Letters, 2010, 37, .	4.0	69
83	Kepler Planet-Detection Mission: Introduction and First Results. Science, 2010, 327, 977-980.	12.6	2,848
84	Systematic detection of Titan's clouds in VIMS/Cassini hyperspectral images using a new automated algorithm. , 2010, , .		0
85	DETECTING THE WIND-DRIVEN SHAPES OF EXTRASOLAR GIANT PLANETS FROM TRANSIT PHOTOMETRY. Astrophysical Journal, 2009, 706, 877-884.	4.5	27
86	TRANSIT LIGHTCURVES OF EXTRASOLAR PLANETS ORBITING RAPIDLY ROTATING STARS. Astrophysical Journal, 2009, 705, 683-692.	4.5	136
87	Fast forward modeling of Titan's infrared spectra to invert VIMS/Cassini hyperspectral images. , 2009, ,		0
88	Analysis of a cryolava flow-like feature on Titan. Planetary and Space Science, 2009, 57, 870-879.	1.7	31
89	VIMS spectral mapping observations of Titan during the Cassini prime mission. Planetary and Space Science, 2009, 57, 1950-1962.	1.7	28
90	The geology of Hotei Regio, Titan: Correlation of Cassini VIMS and RADAR. Icarus, 2009, 204, 610-618.	2.5	62

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91	Global circulation as the main source of cloud activity on Titan. Nature, 2009, 459, 678-682.	27.8	76
92	Shoreline features of Titan's Ontario Lacus from Cassini/VIMS observations. Icarus, 2009, 201, 217-225.	2.5	69
93	Evidence for condensed-phase methane enhancement over Xanadu on Titan. Planetary and Space Science, 2009, 57, 1586-1595.	1.7	15
94	Mapping Products of Titan's Surface. , 2009, , 489-510.		5
95	Titan's surface: Search for spectral diversity and composition using the Cassini VIMS investigation. Icarus, 2008, 194, 212-242.	2.5	83
96	Spectroscopy, morphometry, and photoclinometry of Titan's dunefields from Cassini/VIMS. Icarus, 2008, 195, 400-414.	2.5	125
97	Fluvial erosion and post-erosional processes on Titan. Icarus, 2008, 197, 526-538.	2.5	88
98	The identification of liquid ethane in Titan's Ontario Lacus. Nature, 2008, 454, 607-610.	27.8	254
99	Mapping and interpretation of Sinlap crater on Titan using Cassini VIMS and RADAR data. Journal of Geophysical Research, 2008, 113, .	3.3	60
100	Planetary Radii across Five Orders of Magnitude in Mass and Stellar Insolation: Application to Transits. Astrophysical Journal, 2007, 659, 1661-1672.	4.5	790
101	Effects of Orbital Eccentricity on Extrasolar Planet Transit Detectability and Light Curves. Publications of the Astronomical Society of the Pacific, 2007, 119, 986-993.	3.1	116
102	Nearâ€infrared spectral mapping of Titan's mountains and channels. Journal of Geophysical Research, 2007, 112, .	3.3	82
103	Global-scale surface spectral variations on Titan seen from Cassini/VIMS. Icarus, 2007, 186, 242-258.	2.5	110
104	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
105	Cassini observations of flow-like features in western Tui Regio, Titan. Geophysical Research Letters, 2006, 33, .	4.0	66
106	Composition and Physical Properties of Enceladus' Surface. Science, 2006, 311, 1425-1428.	12.6	199
107	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. Science, 2005, 310, 92-95.	12.6	78
108	The Evolution of Titan's Mid-Latitude Clouds. Science, 2005, 310, 474-477.	12.6	139

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109	Transit Detectability of Ring Systems around Extrasolar Giant Planets. Astrophysical Journal, 2004, 616, 1193-1203.	4.5	105
110	Measuring the Oblateness and Rotation of Transiting Extrasolar Giant Planets. Astrophysical Journal, 2003, 588, 545-556.	4.5	118
111	Stability of Satellites around Closeâ€in Extrasolar Giant Planets. Astrophysical Journal, 2002, 575, 1087-1093.	4.5	189
112	AAT Observations of the SL9 Fragment C, D, G, K, N, R, V, and W Impacts with Jupiter: Lightcurves and Imaging. Icarus, 2001, 152, 366-383.	2.5	3