

Robert A West

List of Publications by Year in descending order

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53
papers

4,035
citations

201385

27
h-index

182168

51
g-index

53
all docs

53
docs citations

53
times ranked

2145
citing authors

#	ARTICLE	IF	CITATIONS
1	The lakes of Titan. <i>Nature</i> , 2007, 445, 61-64.	13.7	507
2	Cassini Imaging of Jupiter's Atmosphere, Satellites, and Rings. <i>Science</i> , 2003, 299, 1541-1547.	6.0	405
3	Imaging of Titan from the Cassini spacecraft. <i>Nature</i> , 2005, 434, 159-168.	13.7	390
4	The Sand Seas of Titan: Cassini RADAR Observations of Longitudinal Dunes. <i>Science</i> , 2006, 312, 724-727.	6.0	351
5	Cassini Imaging Science: Instrument Characteristics And Anticipated Scientific Investigations At Saturn. <i>Space Science Reviews</i> , 2004, 115, 363-497.	3.7	311
6	The Cassini Ultraviolet Imaging Spectrograph Investigation. <i>Space Science Reviews</i> , 2004, 115, 299-361.	3.7	210
7	Photopolarimetry from Voyager 2; Preliminary Results on Saturn, Titan, and the Rings. <i>Science</i> , 1982, 215, 537-543.	6.0	207
8	Rapid and Extensive Surface Changes Near Titan's Equator: Evidence of April Showers. <i>Science</i> , 2011, 331, 1414-1417.	6.0	184
9	Cassini imaging of Titan's high-latitude lakes, clouds, and south-polar surface changes. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	160
10	Ultraviolet Imaging Spectroscopy Shows an Active Saturnian System. <i>Science</i> , 2005, 307, 1251-1255.	6.0	125
11	The mesosphere and lower thermosphere of Titan revealed by Cassini/UVIS stellar occultations. <i>Icarus</i> , 2011, 216, 507-534.	1.1	124
12	Photometry and polarimetry of Jupiter at large phase angles. <i>Icarus</i> , 1978, 33, 558-592.	1.1	114
13	Seasonal changes in Titan's meteorology. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	76
14	In-flight calibration of the Cassini imaging science sub-system cameras. <i>Planetary and Space Science</i> , 2010, 58, 1475-1488.	0.9	60
15	Stratospheric aerosols on Jupiter from Cassini observations. <i>Icarus</i> , 2013, 226, 159-171.	1.1	54
16	Less absorbed solar energy and more internal heat for Jupiter. <i>Nature Communications</i> , 2018, 9, 3709.	5.8	50
17	Detection of an Atmosphere on a Rocky Exoplanet. <i>Astronomical Journal</i> , 2021, 161, 213.	1.9	50
18	The evolution of Titan's detached haze layer near equinox in 2009. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	47

#	ARTICLE	IF	CITATIONS
19	Titan's Meteorology Over the Cassini Mission: Evidence for Extensive Subsurface Methane Reservoirs. <i>Geophysical Research Letters</i> , 2018, 45, 5320-5328.	1.5	47
20	A global climate model of Titan's atmosphere and surface. <i>Planetary and Space Science</i> , 2009, 57, 1931-1949.	0.9	42
21	Cassini Imaging Science Subsystem observations of Titan's south polar cloud. <i>Icarus</i> , 2016, 270, 399-408.	1.1	39
22	Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.	0.9	37
23	Saturn's emitted power. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
24	JUPITER'S PHASE VARIATIONS FROM CASSINI: A TESTBED FOR FUTURE DIRECT-IMAGING MISSIONS. <i>Astronomical Journal</i> , 2016, 152, 209.	1.9	32
25	The detection of benzene in Saturn's upper atmosphere. <i>Geophysical Research Letters</i> , 2016, 43, 7895-7901.	1.5	29
26	Cassini UVIS observations of Titan nightglow spectra. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
27	Microphysical modeling of Titan's detached haze layer in a 3D GCM. <i>Icarus</i> , 2015, 254, 122-134.	1.1	28
28	Aerosol influence on energy balance of the middle atmosphere of Jupiter. <i>Nature Communications</i> , 2015, 6, 10231.	5.8	27
29	Disequilibrium Chemistry in Exoplanet Atmospheres Observed with the Hubble Space Telescope. <i>Astronomical Journal</i> , 2021, 162, 37.	1.9	22
30	Cassini UVIS observations of Titan ultraviolet airglow intensity dependence with solar zenith angle. <i>Geophysical Research Letters</i> , 2017, 44, 88-96.	1.5	20
31	Titan Science with the <i>James Webb Space Telescope</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018007.	1.0	19
32	The seasonal cycle of Titan's detached haze. <i>Nature Astronomy</i> , 2018, 2, 495-500.	4.2	19
33	The global energy balance of Titan. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
34	Emitted power of Jupiter based on Cassini CIRS and VIMS observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
35	DUAL ORIGIN OF AEROSOLS IN TITAN'S DETACHED HAZE LAYER. <i>Astrophysical Journal Letters</i> , 2011, 741, L32.	3.0	16
36	The opposition effect in Saturn's main rings as seen by Cassini ISS: 1. Morphology of phase functions and dependence on the local optical depth. <i>Icarus</i> , 2013, 226, 591-603.	1.1	14

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37	Titan airglow during eclipse. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	12
38	Saturn's giant storm and global radiant energy. <i>Geophysical Research Letters</i> , 2015, 42, 2144-2148.	1.5	12
39	Saturn's Polar Atmosphere. , 2018, , 337-376.		11
40	Haze Seasonal Variations of Titan's Upper Atmosphere during the Cassini Mission. <i>Astrophysical Journal</i> , 2021, 907, 36.	1.6	11
41	Aerosols optical properties in Titan's detached haze layer before the equinox. <i>Icarus</i> , 2017, 292, 13-21.	1.1	9
42	Supersaturation on Pluto and elsewhere. <i>Icarus</i> , 2018, 312, 36-44.	1.1	9
43	Detection of Aerosols at Microbar Pressures in an Exoplanet Atmosphere. <i>Astronomical Journal</i> , 2021, 162, 91.	1.9	9
44	Voyager photopolarimeter observations of Saturn and Titan. <i>Advances in Space Research</i> , 1983, 3, 45-48.	1.2	7
45	The Great Cold Spot in Jupiter's upper atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 3000-3008.	1.5	7
46	Titan's emission processes during eclipse. <i>Icarus</i> , 2014, 241, 397-408.	1.1	6
47	End-of-mission calibration of the Cassini Imaging Science Subsystem. <i>Planetary and Space Science</i> , 2020, 185, 104898.	0.9	6
48	Cassini UVIS Detection of Saturn's North Polar Hexagon in the Grand Finale Orbits. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1979-1988.	1.5	5
49	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). <i>Experimental Astronomy</i> , 2022, 54, 911-973.	1.6	5
50	Gas giant planets, Saturn's rings, and Titan. , 2015, , 320-339.		4
51	The opposition effect in Saturn's main rings as seen by Cassini ISS: 4. Correlations of the surge morphology with surface albedos and VIMS spectral properties. <i>Icarus</i> , 2018, 305, 324-349.	1.1	4
52	Seasonal Variations of Titan's Brightness. <i>Geophysical Research Letters</i> , 2019, 46, 13649-13657.	1.5	4
53	Titan's Global Radiant Energy Budget During the Cassini Epoch (2004-2017). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095356.	1.5	3