Cheng Li

List of Publications by Year
in descending order

32	1,125	430874	434195
papers	citations	18 h-index	31 g-index

42	42	42	1024
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
2	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
3	STABILITY OF CO₂ATMOSPHERES ON DESICCATED M DWARF EXOPLANETS. Astrophysical Journal, 2015, 806, 249.	4.5	104
4	The water abundance in Jupiterâ€™s equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
5	Moist convection in hydrogen atmospheres and the frequency of Saturnâ€™s giant storms. Nature Geoscience, 2015, 8, 398-403.	12.9	68
6	MWR: Microwave Radiometer for the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 139-185.	8.1	64
7	Prevalent lightning sferics at 600 megahertz near Jupiterâ€™s poles. Nature, 2018, 558, 87-90.	27.8	52
8	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
9	Earth as an Exoplanet: A Two-dimensional Alien Map. Astrophysical Journal Letters, 2019, 882, L1.	8.3	27
10	Simulating Nonhydrostatic Atmospheres on Planets (SNAP): Formulation, Validation, and Application to the Jovian Atmosphere. Astrophysical Journal, Supplement Series, 2019, 240, 37.	7.7	27
11	A high-performance atmospheric radiation package: With applications to the radiative energy budgets of giant planets. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 353-362.	2.3	26
12	VERTICAL DISTRIBUTION OF C ₃ -HYDROCARBONS IN THE STRATOSPHERE OF TITAN. Astrophysical Journal Letters, 2015, 803, L19.	8.3	25
13	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
14	A non-monotonic eddy diffusivity profile of Titan's atmosphere revealed by Cassini observations. Planetary and Space Science, 2014, 104, 48-58.	1.7	23
15	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
16	Modeling the stability of polygonal patterns of vortices at the poles of Jupiter as revealed by the Juno spacecraft. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24082-24087.	7.1	21
17	Evidence for Multiple Ferrelâ€Like Cells on Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095651.	4.0	18
18	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18

#	Article	IF	Citations
19	Moist Adiabats with Multiple Condensing Species: A New Theory with Application to Giant-Planet Atmospheres. Journals of the Atmospheric Sciences, 2018, 75, 1063-1072.	1.7	17
20	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006858.	3.6	17
21	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14
22	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
23	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. Geophysical Research Letters, 2021, 48, e2021GL092912.	4.0	13
24	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
25	Jupiter's Overturning Circulation: Breaking Waves Take the Place of Solid Boundaries. Geophysical Research Letters, 2021, 48, e2021GL095756.	4.0	11
26	Jupiter's Temperature Structure: A Reassessment of the Voyager Radio Occultation Measurements. Planetary Science Journal, 2022, 3, 159.	3.6	11
27	Mapping of Jupiterâ€™s tropospheric NH 3 abundance using ground-based IRTF/TEXES observations at 5â€Âµm. Icarus, 2018, 314, 106-120.	2.5	8
28	A Global Nonhydrostatic Atmospheric Model with a Mass- and Energy-conserving Vertically Implicit Correction (VIC) Scheme. Astrophysical Journal, 2020, 898, 130.	4.5	8
29	Retrieval of Chemical Abundances in Titan's Upper Atmosphere From Cassini UVIS Observations With Pointing Motion. Earth and Space Science, 2019, 6, 1057-1066.	2.6	7
30	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
31	Radiative-dynamical Simulation of Jupiterâ€™s Stratosphere and Upper Troposphere. Astrophysical Journal, 2021, 921, 174.	4.5	2
32	Seasonal Variations of Chemical Species and Haze in Titan's Upper Atmosphere. Planetary Science Journal, 2022, 3, 130.	3.6	0