

Cheng Li

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,125
citations

430874

18
h-index

434195

31
g-index

42
all docs

42
docs citations

42
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal Variations of Chemical Species and Haze in Titan's Upper Atmosphere. <i>Planetary Science Journal</i> , 2022, 3, 130.	3.6	0
2	Jupiter's Temperature Structure: A Reassessment of the Voyager Radio Occultation Measurements. <i>Planetary Science Journal</i> , 2022, 3, 159.	3.6	11
3	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092912.	4.0	13
4	Jupiter's Overturning Circulation: Breaking Waves Take the Place of Solid Boundaries. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095756.	4.0	11
5	Evidence for Multiple Ferrel-Like Cells on Jupiter. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095651.	4.0	18
6	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006858.	3.6	17
7	The depth of Jupiter's Great Red Spot constrained by Juno gravity overflights. <i>Science</i> , 2021, 374, 964-968.	12.6	18
8	Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices. <i>Science</i> , 2021, 374, 968-972.	12.6	23
9	Radiative-dynamical Simulation of Jupiter's Stratosphere and Upper Troposphere. <i>Astrophysical Journal</i> , 2021, 921, 174.	4.5	2
10	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
11	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. <i>Earth and Space Science</i> , 2020, 7, e2020EA001229.	2.6	3
12	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
13	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
14	Modeling the stability of polygonal patterns of vortices at the poles of Jupiter as revealed by the Juno spacecraft. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24082-24087.	7.1	21
15	The water abundance in Jupiter's equatorial zone. <i>Nature Astronomy</i> , 2020, 4, 609-616.	10.1	96
16	A Global Nonhydrostatic Atmospheric Model with a Mass- and Energy-conserving Vertically Implicit Correction (VIC) Scheme. <i>Astrophysical Journal</i> , 2020, 898, 130.	4.5	8
17	Earth as an Exoplanet: A Two-dimensional Alien Map. <i>Astrophysical Journal Letters</i> , 2019, 882, L1.	8.3	27
18	Retrieval of Chemical Abundances in Titan's Upper Atmosphere From Cassini UVIS Observations With Pointing Motion. <i>Earth and Space Science</i> , 2019, 6, 1057-1066.	2.6	7

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19	Simulating Nonhydrostatic Atmospheres on Planets (SNAP): Formulation, Validation, and Application to the Jovian Atmosphere. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 37.	7.7	27
20	Moist Adiabats with Multiple Condensing Species: A New Theory with Application to Giant-Planet Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1063-1072.	1.7	17
21	A high-performance atmospheric radiation package: With applications to the radiative energy budgets of giant planets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 353-362.	2.3	26
22	Mapping of Jupiter's tropospheric NH ₃ abundance using ground-based IRTF/TEXES observations at 5 μm. <i>Icarus</i> , 2018, 314, 106-120.	2.5	8
23	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. <i>Nature</i> , 2018, 558, 87-90.	27.8	52
24	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
25	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
26	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
27	MWR: Microwave Radiometer for the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 139-185.	8.1	64
28	Implications of the ammonia distribution on Jupiter from 1 to 100 bars as measured by the Juno microwave radiometer. <i>Geophysical Research Letters</i> , 2017, 44, 7676-7685.	4.0	31
29	VERTICAL DISTRIBUTION OF C ₃ -HYDROCARBONS IN THE STRATOSPHERE OF TITAN. <i>Astrophysical Journal Letters</i> , 2015, 803, L19.	8.3	25
30	Moist convection in hydrogen atmospheres and the frequency of Saturn's giant storms. <i>Nature Geoscience</i> , 2015, 8, 398-403.	12.9	68
31	STABILITY OF CO ₂ ATMOSPHERES ON DESICCATED M DWARF EXOPLANETS. <i>Astrophysical Journal</i> , 2015, 806, 249.	4.5	104
32	A non-monotonic eddy diffusivity profile of Titan's atmosphere revealed by Cassini observations. <i>Planetary and Space Science</i> , 2014, 104, 48-58.	1.7	23