

Hao Cao

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,516
citations

516710

16
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1602
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth model interpretation of planet size distribution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9723-9728.	7.1	311
2	Jupiter's atmospheric jet streams extend thousands of kilometres deep. Nature, 2018, 555, 223-226.	27.8	189
3	Measurement of Jupiter's asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177
4	A suppression of differential rotation in Jupiter's deep interior. Nature, 2018, 555, 227-230.	27.8	165
5	Saturn's magnetic field revealed by the Cassini Grand Finale. Science, 2018, 362, .	12.6	108
6	Zonal flow magnetic field interaction in the semi-conducting region of giant planets. Icarus, 2017, 296, 59-72.	2.5	77
7	Saturn's very axisymmetric magnetic field: No detectable secular variation or tilt. Earth and Planetary Science Letters, 2011, 304, 22-28.	4.4	70
8	A complex dynamo inferred from the hemispheric dichotomy of Jupiter's magnetic field. Nature, 2018, 561, 76-78.	27.8	64
9	A dynamo explanation for Mercury's anomalous magnetic field. Geophysical Research Letters, 2014, 41, 4127-4134.	4.0	52
10	Time variation of Jupiter's internal magnetic field consistent with zonal wind advection. Nature Astronomy, 2019, 3, 730-735.	10.1	46
11	Gravity and zonal flows of giant planets: From the Euler equation to the thermal wind equation. Journal of Geophysical Research E: Planets, 2017, 122, 686-700.	3.6	33
12	The landscape of Saturn's internal magnetic field from the Cassini Grand Finale. Icarus, 2020, 344, 113541.	2.5	33
13	SOLAR LIMB PROMINENCE CATCHER AND TRACKER (SLIPCAT): AN AUTOMATED SYSTEM AND ITS PRELIMINARY STATISTICAL RESULTS. Astrophysical Journal, 2010, 717, 973-986.	4.5	32
14	Saturn's high degree magnetic moments: Evidence for a unique planetary dynamo. Icarus, 2012, 221, 388-394.	2.5	32
15	Challenges on Mercury's Interior Structure Posed by the New Measurements of its Obliquity and Tides. Geophysical Research Letters, 2021, 48, e2020GL089895.	4.0	24
16	Geomagnetic polar minima do not arise from steady meridional circulation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11186-11191.	7.1	19
17	Differential Rotation in Jupiter's Interior Revealed by Simultaneous Inversion for the Magnetic Field and Zonal Flux Velocity. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	16
18	Variability of Intra-D Ring Azimuthal Magnetic Field Profiles Observed on Cassini's Proximal Periapsis Passes. Journal of Geophysical Research: Space Physics, 2019, 124, 379-404.	2.4	12

#	ARTICLE	IF	CITATIONS
19	Saturn's near-equatorial ionospheric conductivities from in situ measurements. <i>Scientific Reports</i> , 2020, 10, 7932.	3.3	10
20	Constraining Jupiter's internal flows using Juno magnetic and gravity measurements. <i>Geophysical Research Letters</i> , 2017, 44, 8173-8181.	4.0	7
21	Magnetic Field Observations on Cassini's Proximal Periapsis Passes: Planetary Period Oscillations and Mean Residual Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8814-8864.	2.4	6
22	Contributions to Jupiter's Gravity Field From Dynamics in the Dynamo Region. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006165.	3.6	5
23	Investigating Barotropic Zonal Flow in Jupiter's Deep Atmosphere Using Juno Gravitational Data. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	5
24	Currents Associated With Saturn's Intra- Ring Azimuthal Field Perturbations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5675-5691.	2.4	4
25	Discovery of Alfvén Waves Planetward of Saturn's Rings. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028473.	2.4	4
26	Constraining the Temporal Variability of Neutral Winds in Saturn's Low-Latitude Ionosphere Using Magnetic Field Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006578.	3.6	4
27	Saturn's Auroral Field-Aligned Currents: Observations From the Northern Hemisphere Dawn Sector During Cassini's Proximal Orbits. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027683.	2.4	3
28	Saturn's Nightside Ring Current During Cassini's Grand Finale. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028605.	2.4	3
29	No Evidence for Time Variation in Saturn's Internal Magnetic Field. <i>Planetary Science Journal</i> , 2021, 2, 181.	3.6	2
30	A Dynamo Simulation Generating Saturn-Like Small Magnetic Dipole Tilts. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
31	Saturn's Magnetic Field and Dynamo. , 2018, , 69-96.		1