Hao Cao

List of Publications by Year
in descending order

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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	A Dynamo Simulation Generating Saturnâ€Like Small Magnetic Dipole Tilts. Geophysical Research Letters, 2022, 49, .	4.0	2
2	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
3	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
4	Discovery of AlfvÃ©n Waves Planetward of Saturn's Rings. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028473.	2.4	4
5	Constraining the Temporal Variability of Neutral Winds in Saturn's Lowâ€Latitude Ionosphere Using Magnetic Field Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006578.	3.6	4
6	Saturn's Nightside Ring Current During Cassini's Grand Finale. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028605.	2.4	3
7	No Evidence for Time Variation in Saturnâ€™s Internal Magnetic Field. Planetary Science Journal, 2021, 2, 181.	3.6	2
8	Investigating Barotropic Zonal Flow in Jupiter's Deep Atmosphere Using Juno Gravitational Data. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	5
9	The landscape of Saturnâ€™s internal magnetic field from the Cassini Grand Finale. Icarus, 2020, 344, 113541.	2.5	33
10	Saturnâ€™s near-equatorial ionospheric conductivities from in situ measurements. Scientific Reports, 2020, 10, 7932.	3.3	10
11	Contributions to Jupiter's Gravity Field From Dynamics in the Dynamo Region. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006165.	3.6	5
12	Saturn's Auroral Fieldâ€Aligned Currents: Observations From the Northern Hemisphere Dawn Sector During Cassini's Proximal Orbits. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027683.	2.4	3
13	Currents Associated With Saturn's Intraâ€D Ring Azimuthal Field Perturbations. Journal of Geophysical Research: Space Physics, 2019, 124, 5675-5691.	2.4	4
14	Time variation of Jupiterâ€™s internal magnetic field consistent with zonal wind advection. Nature Astronomy, 2019, 3, 730-735.	10.1	46
15	Variability of Intraâ€“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
16	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
17	Magnetic Field Observations on Cassini's Proximal Periapsis Passes: Planetary Period Oscillations and Mean Residual Fields. Journal of Geophysical Research: Space Physics, 2019, 124, 8814-8864.	2.4	6
18	A suppression of differential rotation in Jupiterâ€™s deep interior. Nature, 2018, 555, 227-230.	27.8	165

#	Article	IF	Citations
19	Measurement of Jupiterâ€™s asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177
20	Jupiterâ€™s atmospheric jet streams extend thousands of kilometres deep. Nature, 2018, 555, 223-226.	27.8	189
21	Saturnâ€™s Magnetic Field and Dynamo. , 2018, , 69-96.		1
22	Saturnâ€™s magnetic field revealed by the Cassini Grand Finale. Science, 2018, 362, .	12.6	108
23	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
24	A complex dynamo inferred from the hemispheric dichotomy of Jupiterâ€™s magnetic field. Nature, 2018, 561, 76-78.	27.8	64
25	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
26	Constraining Jupiter's internal flows using Juno magnetic and gravity measurements. Geophysical Research Letters, 2017, 44, 8173-8181.	4.0	7
27	Zonal flow magnetic field interaction in the semi-conducting region of giant planets. Icarus, 2017, 296, 59-72.	2.5	77
28	A dynamo explanation for Mercury's anomalous magnetic field. Geophysical Research Letters, 2014, 41, 4127-4134.	4.0	52
29	Saturnâ€™s high degree magnetic moments: Evidence for a unique planetary dynamo. Icarus, 2012, 221, 388-394.	2.5	32
30	Saturn's very axisymmetric magnetic field: No detectable secular variation or tilt. Earth and Planetary Science Letters, 2011, 304, 22-28.	4.4	70
31	SOLAR LIMB PROMINENCE CATCHER AND TRACKER (SLIPCAT): AN AUTOMATED SYSTEM AND ITS PRELIMINARY STATISTICAL RESULTS. Astrophysical Journal, 2010, 717, 973-986.	4.5	32