Eli Galanti

List of Publications by Year
in descending order

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44	1,921	279798	254184
papers	citations	23 h-index	43 g-index

61	61	61	1467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparing Jupiter interior structure models to Juno gravity measurements and the role of a dilute core. Geophysical Research Letters, 2017, 44, 4649-4659.	4.0	265
2	Jupiterâ€™s atmospheric jet streams extend thousands of kilometres deep. Nature, 2018, 555, 223-226.	27.8	189
3	Measurement of Jupiterâ€™s asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177
4	A suppression of differential rotation in Jupiterâ€™s deep interior. Nature, 2018, 555, 227-230.	27.8	165
5	Measurement and implications of Saturnâ€™s gravity field and ring mass. Science, 2019, 364, .	12.6	148
6	Saturn's Deep Atmospheric Flows Revealed by the Cassini Grand Finale Gravity Measurements. Geophysical Research Letters, 2019, 46, 616-624.	4.0	65
7	Nowcasting thunderstorms in the Mediterranean region using lightning data. Atmospheric Research, 2011, 100, 489-502.	4.1	61
8	ENSOâ€™s Phase Locking to the Seasonal Cycle in the Fast-SST, Fast-Wave, and Mixed-Mode Regimes. Journals of the Atmospheric Sciences, 2000, 57, 2936-2950.	1.7	58
9	Saturnâ€™s fast spin determined from its gravitational field and oblateness. Nature, 2015, 520, 202-204.	27.8	53
10	Comparison of the Deep Atmospheric Dynamics of Jupiter and Saturn in Light of the Juno and Cassini Gravity Measurements. Space Science Reviews, 2020, 216, 1.	8.1	45
11	The Equatorial Thermocline Outcroppingâ€”A Seasonal Control on the Tropical Pacific Oceanâ€“Atmosphere Instability Strength. Journal of Climate, 2002, 15, 2721-2739.	3.2	44
12	A Midlatitudeâ€“ENSO Teleconnection Mechanism via Baroclinically Unstable Long Rossby Waves. Journal of Physical Oceanography, 2003, 33, 1877-1888.	1.7	40
13	On the spatial and temporal distribution of global thunderstorm cells. Environmental Research Letters, 2014, 9, 124023.	5.2	39
14	Using Lightning Data to Better Understand and Predict Flash Floods in the Mediterranean. Surveys in Geophysics, 2011, 32, 733-751.	4.6	36
15	Combined magnetic and gravity measurements probe the deep zonal flows of the gas giants. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2352-2362.	4.4	34
16	A full, self-consistent treatment of thermal wind balance on oblate fluid planets. Journal of Fluid Mechanics, 2017, 810, 175-195.	3.4	32
17	The FLASH Project: using lightning data to better understand and predict flash floods. Environmental Science and Policy, 2011, 14, 898-911.	4.9	31
18	Jupiterâ€™s inhomogeneous envelope. Astronomy and Astrophysics, 2022, 662, A18.	5.1	31

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19	An Evaluation of Airâ€“Sea Flux Products for ENSO Simulation and Prediction. Monthly Weather Review, 2002, 130, 723-732.	1.4	29
20	The gravitational signature of internal flows in giant planets: Comparing the thermal wind approach with barotropic potential-surface methods. Icarus, 2016, 276, 170-181.	2.5	28
21	Theory of Figures to the Seventh Order and the Interiors of Jupiter and Saturn. Planetary Science Journal, 2021, 2, 241.	3.6	26
22	AN ADJOINT-BASED METHOD FOR THE INVERSION OF THE JUNO AND CASSINI GRAVITY MEASUREMENTS INTO WIND FIELDS. Astrophysical Journal, 2016, 820, 91.	4.5	25
23	The effect of differential rotation on Jupiter's lowâ€degree even gravity moments. Geophysical Research Letters, 2017, 44, 5960-5968.	4.0	25
24	A Study of ENSO Prediction Using a Hybrid Coupled Model and the Adjoint Method for Data Assimilation. Monthly Weather Review, 2003, 131, 2748-2764.	1.4	23
25	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
26	The Anomalous Merging of the African and North Atlantic Jet Streams during the Northern Hemisphere Winter of 2010. Journal of Climate, 2014, 27, 7319-7334.	3.2	21
27	Probing the depth of Jupiterâ€™s Great Red Spot with the Juno gravity experiment. Icarus, 2016, 267, 232-242.	2.5	20
28	Evidence for Multiple Ferrelâ€Like Cells on Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095651.	4.0	18
29	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
30	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
31	Analysis of Jupiterâ€™s Deep Jets Combining Juno Gravity and Time-varying Magnetic Field Measurements. Astrophysical Journal Letters, 2019, 879, L22.	8.3	14
32	The Range of Jupiter's Flow Structures That Fit the Juno Asymmetric Gravity Measurements. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006292.	3.6	14
33	Decoupling Jupiterâ€™s deep and atmospheric flows using the upcoming Juno gravity measurements and a dynamical inverse model. Icarus, 2017, 286, 46-55.	2.5	13
34	Determining the Depth of Jupiterâ€™s Great Red Spot with Juno: A Slepian Approach. Astrophysical Journal Letters, 2019, 874, L24.	8.3	13
35	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. Geophysical Research Letters, 2021, 48, e2021GL092912.	4.0	13
36	Anomalously strong vertical magnetic fields from distant ELF/VLF sources. Journal of Geophysical Research: Space Physics, 2015, 120, 6036-6044.	2.4	11

#	Article	IF	Citations
37	Estimating Jupiterâ€™s Gravity Field Using Juno Measurements, Trajectory Estimation Analysis, and a Flow Model Optimization. Astronomical Journal, 2017, 154, 2.	4.7	10
38	Prediction for the Flow-induced Gravity Field of Saturn: Implications for Cassini â€™s Grand Finale. Astrophysical Journal Letters, 2017, 843, L25.	8.3	9
39	Inner Structure of Atmospheric Inversion Layers over Haifa Bay in the Eastern Mediterranean. Boundary-Layer Meteorology, 2015, 156, 471-487.	2.3	8
40	Constraining Jupiter's internal flows using Juno magnetic and gravity measurements. Geophysical Research Letters, 2017, 44, 8173-8181.	4.0	7
41	The Tropical Atmospheric Conveyor Belt: A Coupled Eulerianâ€Lagrangian Analysis of the Largeâ€Scale Tropical Circulation. Geophysical Research Letters, 2020, 47, e2019GL086437.	4.0	6
42	A mascon approach to estimating the depth of Jupiterâ€™s Great Red Spot with Juno gravity measurements. Planetary and Space Science, 2020, 181, 104781.	1.7	5
43	Spatial Patterns of the Tropical Meridional Circulation: Drivers and Teleconnections. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
44	Resolving the Latitudinal Shortâ€Scale Gravity Field of Jupiter Using Slepian Functions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006416.	3.6	3