

# Konstantinos Dialynas

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

905  
citations

471509

17  
h-index

501196

28  
g-index

45  
all docs

45  
docs citations

45  
times ranked

689  
citing authors

#	ARTICLE	IF	CITATIONS
1	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 2022, 54, 745-789.	3.7	11
2	A source of very energetic oxygen located in Jupiter's inner radiation belts. <i>Science Advances</i> , 2022, 8, eabm4234.	10.3	11
3	The Structure of the Global Heliosphere as Seen by In-Situ Ions from the Voyagers and Remotely Sensed ENAs from Cassini. <i>Space Science Reviews</i> , 2022, 218, 1.	8.1	21
4	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52–55 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2022, 931, L21.	8.3	11
5	The Structure of the Large-Scale Heliosphere as Seen by Current Models. <i>Space Science Reviews</i> , 2022, 218, .	8.1	23
6	Energetic Neutral Atom Fluxes from the Heliosheath: Constraints from in situ Measurements and Models. <i>Astrophysical Journal Letters</i> , 2021, 915, L26.	8.3	9
7	Ions Measured by Voyager 1 Outside the Heliopause to ~28 au and Implications Thereof. <i>Astrophysical Journal</i> , 2021, 917, 42.	4.5	15
8	Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. <i>Astrophysical Journal</i> , 2021, 921, 164.	4.5	14
9	A Turbulent Heliosheath Driven by the Rayleigh–Taylor Instability. <i>Astrophysical Journal</i> , 2021, 922, 181.	4.5	21
10	The Development of a Split-tail Heliosphere and the Role of Non-ideal Processes: A Comparison of the BU and Moscow Models. <i>Astrophysical Journal</i> , 2021, 923, 179.	4.5	14
11	Convection in the Magnetosphere of Saturn During the Cassini Mission Derived From MIMI INCA and CHEMS Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027534.	2.4	11
12	A Long-Lasting Auroral Spiral Rotating Around Saturn's Pole. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088810.	4.0	4
13	Long- and Short-term Variability of Galactic Cosmic-Ray Radial Intensity Gradients between 1 and 9.5 au: Observations by Cassini, BESS, BESS-Polar, PAMELA, and AMS-02. <i>Astrophysical Journal</i> , 2020, 904, 165.	4.5	20
14	Combined $\sim 10$ eV to $\sim 344$ MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , 2020, 905, L24.	8.3	24
15	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. <i>Astrophysical Journal Letters</i> , 2020, 902, L45.	8.3	7
16	Auroral Beads at Saturn and the Driving Mechanism: Cassini Proximal Orbits. <i>Astrophysical Journal Letters</i> , 2019, 885, L16.	8.3	10
17	Energetic charged particle measurements from Voyager 2 at the heliopause and beyond. <i>Nature Astronomy</i> , 2019, 3, 997-1006.	10.1	59
18	Plasma Pressures in the Heliosheath From Cassini ENA and Voyager 2 Measurements: Validation by the Voyager 2 Heliopause Crossing. <i>Geophysical Research Letters</i> , 2019, 46, 7911-7919.	4.0	29

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19	Jovian Cosmic-Ray Protons in the Heliosphere: Constraints by Cassini Observations. <i>Astrophysical Journal</i> , 2019, 871, 223.	4.5	8
20	Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. <i>Geophysical Research Letters</i> , 2019, 46, 3590-3598.	4.0	13
21	Drift-resonant, relativistic electron acceleration at the outer planets: Insights from the response of Saturn's radiation belts to magnetospheric storms. <i>Icarus</i> , 2018, 305, 160-173.	2.5	26
22	Statistical Study of the Energetic Proton Environment at Titan's Orbit From the Cassini Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4820-4834.	2.4	8
23	Heliospheric Conditions at Saturn During Cassini's Ring-Grazing and Proximal Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 10812-10818.	4.0	14
24	Cassini/MIMI Observations on the Dungey Cycle Reconnection and Kelvin-Helmholtz Instability in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7271-7275.	2.4	3
25	Energetic Ion Moments and Polytropic Index in Saturn's Magnetosphere using Cassini/MIMI Measurements: A Simple Model Based on $\langle v^p \rangle$ Distribution Functions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8066-8086.	2.4	34
26	A radiation belt of energetic protons located between Saturn and its rings. <i>Science</i> , 2018, 362, .	12.6	27
27	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8502-8517.	2.4	14
28	The bubble-like shape of the heliosphere observed by Voyager and Cassini. <i>Nature Astronomy</i> , 2017, 1, .	10.1	74
29	The Kappa-Shaped Particle Spectra in Planetary Magnetospheres. , 2017, , 481-522.		6
30	Response times of Cassini/INCA > 5.2 keV ENAs and Voyager ions in the heliosheath over the solar cycle. <i>Journal of Physics: Conference Series</i> , 2017, 900, 012005.	0.4	11
31	Energetic Neutral Atom (ENA) intensity gradients in the heliotail during year 2003, using Cassini/INCA measurements. <i>Journal of Physics: Conference Series</i> , 2015, 577, 012007.	0.4	5
32	The extended Saturnian neutral cloud as revealed by global ENA simulations using Cassini/MIMI measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3027-3041.	2.4	30
33	A THREE-COORDINATE SYSTEM (ECLIPTIC, GALACTIC, ISMF) SPECTRAL ANALYSIS OF HELIOSPHERIC ENA EMISSIONS USING CASSINI/INCA MEASUREMENTS. <i>Astrophysical Journal</i> , 2013, 778, 40.	4.5	34
34	Cassini ENA images of the heliosheath and Voyager "œground truth" Thickness of the heliosheath. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	11
35	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012, 61, 60-65.	1.7	31
36	The distribution of Titan's high-altitude (out to $\sim 1450,000$ km) exosphere from energetic neutral atom (ENA) measurements by Cassini/INCA. <i>Planetary and Space Science</i> , 2012, 60, 107-114.	1.7	28

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37	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. Geophysical Research Letters, 2010, 37, .	4.0	37
38	Analysis of a sequence of energetic ion and magnetic field events upstream from the Saturnian magnetosphere. Planetary and Space Science, 2009, 57, 1785-1794.	1.7	11
39	Energetic ion spectral characteristics in the Saturnian magnetosphere using Cassini/MIMI measurements. Journal of Geophysical Research, 2009, 114, .	3.3	111
40	Discovery of a transient radiation belt at Saturn. Geophysical Research Letters, 2008, 35, .	4.0	54
41	Characteristic signatures of energetic ions upstream from the Kronian magnetosphere as revealed by Cassini/MIMI. Proceedings of the International Astronomical Union, 2008, 4, 517-522.	0.0	0
42	Electron impact ionization in the Martian ionosphere. AIP Conference Proceedings, 2007, , .	0.4	0
43	Mars: Determination of the most appropriate electron energy for the bow shock identification, using MGS data. AIP Conference Proceedings, 2006, , .	0.4	0
44	Magnetospheric Electron Flows In The Martian Ionosphere. Detection And Implications. AIP Conference Proceedings, 2006, , .	0.4	1