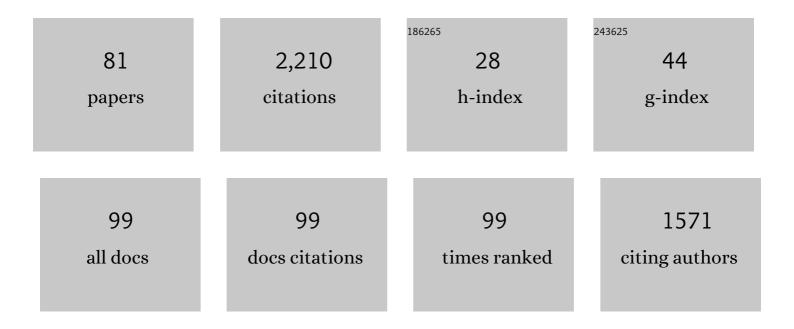
Niklas Edberg

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2999308/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	12.6	107
2	Statistical analysis of the location of the Martian magnetic pileup boundary and bow shock and the influence of crustal magnetic fields. Journal of Geophysical Research, 2008, 113, .	3.3	93
3	Pumping out the atmosphere of Mars through solar wind pressure pulses. Geophysical Research Letters, 2010, 37, .	4.0	88
4	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
5	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A20.	5.1	76
6	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	4.0	74
7	Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. Annales Geophysicae, 2009, 27, 3537-3550.	1.6	70
8	lon densities and composition of Titan's upper atmosphere derived from the Cassini Ion Neutral Mass Spectrometer: Analysis methods and comparison of measured ion densities to photochemical model simulations. Journal of Geophysical Research, 2012, 117, .	3.3	67
9	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S9-S22.	4.4	62
10	Atmospheric erosion of Venus during stormy space weather. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	60
11	Evolution of the plasma environment of comet 67P from spacecraft potential measurements by the Rosetta Langmuir probe instrument. Geophysical Research Letters, 2015, 42, 10,126.	4.0	49
12	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3 AU: Model comparisons with Rosetta data. Journal of Geophysical Research: Space Physics, 2016, 121, 5815-5836.	2.4	49
13	Detection of negative ions in the deep ionosphere of Titan during the Cassini T70 flyby. Geophysical Research Letters, 2012, 39, .	4.0	48
14	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	1.6	46
15	Control of the topside Martian ionosphere by crustal magnetic fields. Journal of Geophysical Research: Space Physics, 2015, 120, 3042-3058.	2.4	45
16	Carbon Chain Anions and the Growth of Complex Organic Molecules in Titan's Ionosphere. Astrophysical Journal Letters, 2017, 844, L18.	8.3	45
17	Annual variations in the Martian bow shock location as observed by the Mars Express mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,474.	2.4	44
18	The Morphology of the Topside Martian Ionosphere: Implications on Bulk Ion Flow. Journal of Geophysical Research E: Planets, 2019, 124, 734-751.	3.6	43

#	Article	IF	CITATIONS
19	Mars ionospheric response to solar wind variability. Journal of Geophysical Research: Space Physics, 2013, 118, 6558-6587.	2.4	42
20	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	4.4	42
21	Titan's interaction with the supersonic solar wind. Geophysical Research Letters, 2015, 42, 193-200.	4.0	40
22	In situ measurements of Saturn's ionosphere show that it is dynamic and interacts with the rings. Science, 2018, 359, 66-68.	12.6	40
23	Magnetosonic Mach number effect of the position of the bow shock at Mars in comparison to Venus. Journal of Geophysical Research, 2010, 115, .	3.3	39
24	Electron density and temperature measurements in the cold plasma environment of Titan: Implications for atmospheric escape. Geophysical Research Letters, 2010, 37, .	4.0	38
25	Determination of local plasma densities with the MARSIS radar: Asymmetries in the high‒altitude Martian ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6228-6242.	2.4	38
26	Solar cycle modulation of Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 5255-5264.	2.4	38
27	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33
28	ON THE ELECTRON-TO-NEUTRAL NUMBER DENSITY RATIO IN THE COMA OF COMET 67P/CHURYUMOV–GERASIMENKO: GUIDING EXPRESSION AND SOURCES FOR DEVIATIONS. Astrophysical Journal, 2015, 812, 54.	4.5	31
29	The 67P/Churyumov–Gerasimenko observation campaign in support of the Rosetta mission. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160249.	3.4	29
30	Effective ion speeds at â^¼200–250Âkm from comet 67P/Churyumov–Gerasimenko near perihelion. Monthly Notices of the Royal Astronomical Society, 2017, 469, S142-S148.	[′] 4.4	29
31	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. Geophysical Research Letters, 2013, 40, 2879-2883.	4.0	27
32	Evaluating Local Ionization Balance in the Nightside Martian Upper Atmosphere during MAVEN Deep Dip Campaigns. Astrophysical Journal Letters, 2019, 876, L12.	8.3	27
33	Saturn's Dusty Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1679-1697.	2.4	27
34	Cometary plasma response to interplanetary corotating interaction regions during 2016 June–September: a quantitative study by the Rosetta Plasma Consortium. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4544-4556.	4.4	26
35	MODEL-OBSERVATION COMPARISONS OF ELECTRON NUMBER DENSITIES IN THE COMA OF 67P/CHURYUMOV–GERASIMENKO DURING 2015 JANUARY. Astronomical Journal, 2016, 152, 59.	4.7	24
36	Rosetta photoelectron emission and solar ultraviolet flux at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S626-S635.	4.4	24

#	Article	IF	CITATIONS
37	Density fluctuations associated with turbulence and waves. Astronomy and Astrophysics, 2021, 656, A19.	5.1	24
38	Detection of currents and associated electric fields in Titan's ionosphere from Cassini data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	23
39	Ion and aerosol precursor densities in Titan's ionosphere: A multiâ€instrument case study. Journal of Geophysical Research: Space Physics, 2016, 121, 10075-10090.	2.4	23
40	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	5.1	21
41	Rosetta and Mars Express observations of the influence of high solar wind pressure on the Martian plasma environment. Annales Geophysicae, 2009, 27, 4533-4545.	1.6	21
42	Saturn's Ionosphere: Electron Density Altitude Profiles and Dâ€Ring Interaction From The Cassini Grand Finale. Geophysical Research Letters, 2019, 46, 9362-9369.	4.0	20
43	An empirical approach to modeling ion production rates in Titan's ionosphere I: Ion production rates on the dayside and globally. Journal of Geophysical Research: Space Physics, 2015, 120, 1264-1280.	2.4	18
44	Titan's ionosphere: A survey of solar EUV influences. Journal of Geophysical Research: Space Physics, 2017, 122, 7491-7503.	2.4	17
45	Ring Shadowing Effects on Saturn's Ionosphere: Implications for Ring Opacity and Plasma Transport. Geophysical Research Letters, 2018, 45, 10,084.	4.0	17
46	Hybrid simulation of Titan's interaction with the supersonic solar wind during Cassini's T96 flyby. Geophysical Research Letters, 2016, 43, 35-42.	4.0	16
47	Cold and warm electrons at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 0, , .	5.1	15
48	Ultraviolet Observations of Coronal Mass Ejection Impact on Comet 67P/Churyumov–Gerasimenko by Rosetta Alice. Astronomical Journal, 2018, 156, 16.	4.7	15
49	Solar Orbiter's first Venus flyby: Observations from the Radio and Plasma Wave instrument. Astronomy and Astrophysics, 2021, 656, A18.	5.1	14
50	Tracking corotating interaction regions from the Sun through to the orbit of Mars using ACE, MEX, VEX, and STEREO. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
51	Solar wind current sheets and deHoffmann-Teller analysis. First results from Solar Orbiter's DC electric field measurements. Astronomy and Astrophysics, 0, , .	5.1	13
52	Kinetic electrostatic waves and their association with current structures in the solar wind. Astronomy and Astrophysics, 2021, 656, A23.	5.1	12
53	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8884-8898.	2.4	11
54	Statistical features of the global polarity reversal of the Venusian induced magnetosphere in response to the polarity change in interplanetary magnetic field. Journal of Geophysical Research: Space Physics, 2016, 121, 3951-3962.	2.4	11

#	Article	IF	CITATIONS
55	Observations of high-plasma density region in the inner coma of 67P/Churyumov–Gerasimenko during early activity. Monthly Notices of the Royal Astronomical Society, 2016, 462, S33-S44.	4.4	11
56	Current sheets in comet 67P/Churyumovâ€Gerasimenko's coma. Journal of Geophysical Research: Space Physics, 2017, 122, 3308-3321.	2.4	11
5 7	Reduced proton and alpha particle precipitations at Mars during solar wind pressure pulses: Mars Express results. Journal of Geophysical Research: Space Physics, 2013, 118, 3421-3429.	2.4	10
58	Solar cycle variations in ion composition in the dayside ionosphere of Titan. Journal of Geophysical Research: Space Physics, 2016, 121, 8013-8037.	2.4	10
59	Plasma observations during the Mars atmospheric "plume―event of March–April 2012. Journal of Geophysical Research: Space Physics, 2016, 121, 3139-3154.	2.4	10
60	Unusually high magnetic fields in the coma of 67P/Churyumov-Gerasimenko during its high-activity phase. Astronomy and Astrophysics, 2019, 630, A38.	5.1	10
61	Plasma densities, flow, and solar EUV flux at comet 67P. Astronomy and Astrophysics, 2021, 653, A128.	5.1	9
62	First observations and performance of the RPW instrument on board the Solar Orbiter mission. Astronomy and Astrophysics, 2021, 656, A41.	5.1	9
63	SUPRATHERMAL ELECTRONS IN TITAN'S SUNLIT IONOSPHERE: MODEL–OBSERVATION COMPARISONS. Astrophysical Journal, 2016, 826, 131.	4.5	8
64	A Single Deformed Bow Shock for Titan‣aturn System. Journal of Geophysical Research: Space Physics, 2017, 122, 11,058.	2.4	7
65	The Evolution of the Electron Number Density in the Coma of Comet 67P at the Location of Rosetta from 2015 November through 2016 March. Astrophysical Journal, 2019, 881, 6.	4.5	7
66	The Convective Electric Field Influence on the Cold Plasma and Diamagnetic Cavity of Comet 67P. Astronomical Journal, 2019, 158, 71.	4.7	7
67	Implications from secondary emission from neutral impact on <i>Cassini</i> plasma and dust measurements. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2340-2350.	4.4	6
68	Statistical study of electron density turbulence and ion-cyclotron waves in the inner heliosphere: Solar Orbiter observations. Astronomy and Astrophysics, 2021, 656, A16.	5.1	5
69	Analysis of multiscale structures at the quasi-perpendicular Venus bow shock. Astronomy and Astrophysics, 2022, 660, A64.	5.1	5
70	Outflow and plasma acceleration in Titan's induced magnetotail: Evidence of magnetic tension forces. Journal of Geophysical Research: Space Physics, 2014, 119, 9992.	2.4	4
71	Solar flares observed by Rosetta at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A49.	5.1	4
72	Mars Express Observations of Cold Plasma Structures in the Martian Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028056.	2.4	4

#	Article	IF	CITATIONS
73	Reâ€Analysis of the Cassini RPWS/LP Data in Titan's Ionosphere: 1. Detection of Several Electron Populations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028412.	2.4	4
74	Dynamic field line draping at comet 67P/Churyumov-Gerasimenko during the Rosetta dayside excursion. Astronomy and Astrophysics, 2019, 630, A44.	5.1	4
75	Photoionization Modeling of Titan's Dayside Ionosphere. Astrophysical Journal Letters, 2017, 850, L26.	8.3	3
76	Radial distribution of plasma at comet 67P. Astronomy and Astrophysics, 2022, 663, A42.	5.1	3
77	Titan's Variable Ionosphere During the T118 and T119 Cassini Flybys. Geophysical Research Letters, 2018, 45, 8721-8728.	4.0	2
78	MARSIS Observations of Fieldâ€Aligned Irregularities and Ducted Radio Propagation in the Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 6251-6263.	2.4	2
79	Reâ€Analysis of the Cassini RPWS/LP Data in Titan's Ionosphere: 2. Statistics on 57 Flybys. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028413.	2.4	2
80	A Twoâ€5pacecraft Study of Mars' Induced Magnetosphere's Response to Upstream Conditions. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
81	The Science Case for a Titan Flagship-class Orbiter with Probes. , 2021, 53, .		0