

Andrew F Nagy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8434533/publications.pdf>

Version: 2024-02-01

100
papers

6,841
citations

50276

46
h-index

79698

73
g-index

105
all docs

105
docs citations

105
times ranked

2581
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron temperatures in the F_2 region of the ionosphere: Theory and observations. <i>Reviews of Geophysics</i> , 1978, 16, 355-399.	23.0	419
2	Photoelectron fluxes in the ionosphere. <i>Journal of Geophysical Research</i> , 1970, 75, 6260-6270.	3.3	342
3	Three-dimensional, multispecies, high spatial resolution MHD studies of the solar wind interaction with Mars. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	241
4	Ionospheres of the terrestrial planets. <i>Reviews of Geophysics</i> , 1980, 18, 813-852.	23.0	229
5	Hot oxygen atoms in the upper atmospheres of Venus and Mars. <i>Geophysical Research Letters</i> , 1988, 15, 433-435.	4.0	186
6	Electron impact ionization in the vicinity of comets. <i>Journal of Geophysical Research</i> , 1987, 92, 7341-7353.	3.3	158
7	Three-dimensional multispecies MHD studies of the solar wind interaction with Mars in the presence of crustal fields. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 6-1.	3.3	148
8	Solar cycle variability of hot oxygen atoms at Mars. <i>Journal of Geophysical Research</i> , 1998, 103, 29339-29342.	3.3	134
9	The Ionosphere of Europa from Galileo Radio Occultations. <i>Science</i> , 1997, 277, 355-358.	12.6	129
10	Model calculations of the dayside ionosphere of Venus: Ionic composition. <i>Journal of Geophysical Research</i> , 1980, 85, 7795-7801.	3.3	119
11	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151.	2.5	108
12	Comparisons between MHD model calculations and observations of Cassini flybys of Titan. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	95
13	Three-dimensional, multifluid, high spatial resolution MHD model studies of the solar wind interaction with Mars. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	93
14	A time-dependent theoretical model of the polar wind: Preliminary results. <i>Geophysical Research Letters</i> , 1985, 12, 167-170.	4.0	80
15	Ion escape fluxes from Mars. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	80
16	Pickup oxygen ion velocity space and spatial distribution around Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	80
17	Effects of crustal field rotation on the solar wind plasma interaction with Mars. <i>Geophysical Research Letters</i> , 2014, 41, 6563-6569.	4.0	80
18	A two-dimensional model of the ionosphere of Venus. <i>Journal of Geophysical Research</i> , 1983, 88, 5595-5606.	3.3	79

#	ARTICLE	IF	CITATIONS
19	A bounce-averaged kinetic model of the ring current ion population. <i>Geophysical Research Letters</i> , 1994, 21, 2785-2788.	4.0	77
20	Cassini Radio Science. <i>Space Science Reviews</i> , 2004, 115, 1-70.	8.1	75
21	Chemical interactions between Saturn's atmosphere and its rings. <i>Science</i> , 2018, 362, .	12.6	73
22	Solar wind interaction with Mars upper atmosphere: Results from the one-way coupling between the multifluid MHD model and the MTGCM model. <i>Geophysical Research Letters</i> , 2014, 41, 2708-2715.	4.0	71
23	Detection of a new "chemical" boundary at comet Halley. <i>Geophysical Research Letters</i> , 1986, 13, 613-616.	4.0	70
24	A study of suprathermal oxygen atoms in Mars upper thermosphere and exosphere over the range of limiting conditions. <i>Icarus</i> , 2010, 206, 18-27.	2.5	67
25	The evolution of large-scale magnetic fields in the ionosphere of Venus. <i>Geophysical Research Letters</i> , 1984, 11, 267-270.	4.0	65
26	First results from the Cassini radio occultations of the Titan ionosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
27	The interaction between the magnetosphere of Saturn and Titan's ionosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 6151-6160.	3.3	62
28	Martian ionospheric responses to dynamic pressure enhancements in the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1272-1286.	2.4	59
29	A one-dimensional time-dependent model of the magnetized ionosphere of Venus. <i>Journal of Geophysical Research</i> , 1987, 92, 7317-7330.	3.3	58
30	3D global multi-species Hall-MHD simulation of the Cassini T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58
31	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. <i>Geophysical Research Letters</i> , 2015, 42, 9113-9120.	4.0	58
32	On the effect of the martian crustal magnetic field on atmospheric erosion. <i>Icarus</i> , 2010, 206, 130-138.	2.5	57
33	First results from the ionospheric radio occultations of Saturn by the Cassini spacecraft. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	56
34	Three-dimensional study of Mars upper thermosphere/ionosphere and hot oxygen corona: 1. General description and results at equinox for solar low conditions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	56
35	Midlatitude and high-latitude electron density profiles in the ionosphere of Saturn obtained by Cassini radio occultation observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	56
36	Wave activity in the neighborhood of the bowshock of Mars. <i>Geophysical Research Letters</i> , 1990, 17, 893-896.	4.0	55

#	ARTICLE	IF	CITATIONS
37	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. <i>Geophysical Research Letters</i> , 2015, 42, 9103-9112.	4.0	54
38	Observation of electron and ion fluxes in the vicinity of Mars with the HARP spectrometer. <i>Nature</i> , 1989, 341, 614-616.	27.8	53
39	A three-dimensional MHD study of solar wind mass loading processes at Venus: Effects of photoionization, electron impact ionization, and charge exchange. <i>Journal of Geophysical Research</i> , 1998, 103, 23625-23638.	3.3	53
40	3D multi-fluid MHD studies of the solar wind interaction with Mars. <i>Geophysical Research Letters</i> , 1999, 26, 2689-2692.	4.0	53
41	Solar wind interaction with the Martian upper atmosphere: Crustal field orientation, solar cycle, and seasonal variations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7857-7872.	2.4	51
42	Ionosphere of Callisto from Galileo radio occultation observations. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 19-1.	3.3	50
43	Direct measurements bearing on the extent of thermal nonequilibrium in the ionosphere. <i>Journal of Geophysical Research</i> , 1963, 68, 6401-6412.	3.3	49
44	Ionospheric electron temperature calculations including protonospheric and conjugate effects. <i>Journal of Geophysical Research</i> , 1969, 74, 4667-4676.	3.3	49
45	A global multispecies single-fluid MHD study of the plasma interaction around Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 321-330.	2.4	49
46	Solar System Ionospheres. <i>Space Science Reviews</i> , 2008, 139, 235-265.	8.1	48
47	Titans ionosphere : a review. <i>Planetary and Space Science</i> , 1998, 46, 1149-1155.	1.7	46
48	Cassini radio occultations of Saturn's ionosphere: Model comparisons using a constant water flux. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	46
49	Hot hydrogen in the exosphere of Venus. <i>Nature</i> , 1980, 283, 178-180.	27.8	45
50	The energetics of Titan's ionosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 2087.	3.3	43
51	Time-dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
52	Unusual electron density profiles observed by Cassini radio occultations in Titan's ionosphere: Effects of enhanced magnetospheric electron precipitation?. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	41
53	Water loss and evolution of the upper atmosphere and exosphere over martian history. <i>Icarus</i> , 2010, 206, 28-39.	2.5	40
54	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1714-1730.	2.4	40

#	ARTICLE	IF	CITATIONS
55	Nighttime cooling of the protonosphere. <i>Journal of Geophysical Research</i> , 1968, 73, 6259-6274.	3.3	39
56	Hot carbon densities in the exosphere of Mars. <i>Journal of Geophysical Research</i> , 2001, 106, 21565-21568.	3.3	38
57	Non-steady-state transport of superthermal electrons in the plasmasphere. <i>Geophysical Research Letters</i> , 1993, 20, 2821-2824.	4.0	36
58	Escape probability of Martian atmospheric ions: Controlling effects of the electromagnetic fields. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
59	Comparisons of electron fluxes measured in the crustal fields at Mars by the MGS magnetometer/electron reflectometer instrument with a field-dependent transport code. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	35
60	3-D global MHD model prediction for the first close flyby of Titan by Cassini. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	35
61	The effect of the hot oxygen corona on the interaction of the solar wind with Venus. <i>Geophysical Research Letters</i> , 1987, 14, 503-506.	4.0	31
62	Mars Global MHD Predictions of Magnetic Connectivity Between the Dayside Ionosphere and the Magnetospheric Flanks. <i>Space Science Reviews</i> , 2007, 126, 63-76.	8.1	31
63	Venus mantle-Mars planetosphere: What are the similarities and differences?. <i>Geophysical Research Letters</i> , 1990, 17, 865-868.	4.0	30
64	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , 2008, 139, 311-353.	8.1	30
65	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. <i>Geophysical Research Letters</i> , 2018, 45, 7248-7256.	4.0	29
66	GPR, a ground-penetrating radar for the Netlander mission. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
67	Solar system ionospheres. <i>Geophysical Monograph Series</i> , 2002, , 39-54.	0.1	27
68	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9040-9057.	2.4	27
69	Electron Density Distributions in Saturn's Ionosphere. <i>Geophysical Research Letters</i> , 2019, 46, 3061-3068.	4.0	27
70	Models of Saturn's Equatorial Ionosphere Based on In Situ Data From Cassini's Grand Finale. <i>Geophysical Research Letters</i> , 2018, 45, 9398-9407.	4.0	26
71	A comprehensive magnetohydrodynamic model of the Venus ionosphere. <i>Journal of Geophysical Research</i> , 1991, 96, 11083-11095.	3.3	25
72	Composition and Structure of the Ionosphere and Thermosphere. , 2009, , 259-295.		25

#	ARTICLE	IF	CITATIONS
73	Upper Atmosphere and Ionosphere of Saturn. , 2009, , 181-201.		25
74	The ionosphere of Saturn: Predictions for Pioneer 11. Geophysical Research Letters, 1979, 6, 723-726.	4.0	21
75	The ionosphere of Saturn as observed by the Cassini Radio Science System. Geophysical Research Letters, 2014, 41, 5778-5782.	4.0	21
76	Electron temperatures in the Jovian ionosphere. Journal of Geophysical Research, 1976, 81, 5567-5569.	3.3	20
77	A two dimensional shock capturing, hydrodynamic model of the Venus ionosphere. Geophysical Research Letters, 1991, 18, 801-804.	4.0	20
78	Reconnection in the Martian Magnetotail: Hallâ€‹MHDâ€‹ With Embedded Particleâ€‹Cell Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 3742-3763.	2.4	20
79	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
80	Analysis of the ionosphereâ€‹plasmasphere transport of superthermal electrons, 1. Transport in the plasmasphere. Journal of Geophysical Research, 1992, 97, 16887-16895.	3.3	19
81	Two-species, 3D, MHD simulation of Europa's interaction with Jupiter's magnetosphere. Geophysical Research Letters, 2000, 27, 1791-1794.	4.0	18
82	Temperatures of individual ion species and heating due to charge exchange in the ionosphere of Venus. Journal of Geophysical Research, 1990, 95, 6569-6573.	3.3	16
83	Energetics of the dayside ionosphere of Venus. Geophysical Research Letters, 1993, 20, 1523-1526.	4.0	16
84	Outstanding aeronomy problems at Venus. Planetary and Space Science, 2006, 54, 1381-1388.	1.7	16
85	A theoretical study concerning the solar cycle dependence of the nightside ionosphere of Venus. Journal of Geophysical Research, 1995, 100, 14507.	3.3	15
86	Analytic description of the electron temperature behavior in the upper ionosphere and plasmasphere. Geophysical Research Letters, 1992, 19, 1915-1918.	4.0	14
87	Hot oxygen corona at Europa. Geophysical Research Letters, 1998, 25, 4153-4155.	4.0	14
88	Solar Wind Interaction With the Martian Upper Atmosphere: Roles of the Cold Thermosphere and Hot Oxygen Corona. Journal of Geophysical Research: Space Physics, 2018, 123, 6639-6654.	2.4	14
89	Formation and Evolution of the Largeâ€‹Scale Magnetic Fields in Venus' Ionosphere: Results From a Three Dimensional Global Multispecies MHD Model. Geophysical Research Letters, 2020, 47, e2020GL087593.	4.0	12
90	Meteoric materialâ€‹an important component of planetary atmospheres. Geophysical Monograph Series, 2002, , 235-244.	0.1	11

#	ARTICLE	IF	CITATIONS
91	The importance of thermal electron heating in Titan's ionosphere: Comparison with Cassini T34 flyby. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
92	Time-Dependent Numerical Simulation of Hot Ion Outflow from the Polar Ionosphere. Geophysical Monograph Series, 0, , 366-371.	0.1	7
93	All ionospheres are not alike: Reports from other planets. Reviews of Geophysics, 1995, 33, 525.	23.0	6
94	Hot carbon densities in the exosphere of Venus. Journal of Geophysical Research, 2004, 109, .	3.3	3
95	Current understanding of the aeronomy of Mars. Geoscience Letters, 2015, 2, .	3.3	3
96	Saturn's Ionosphere. , 2018, , 196-223.		3
97	Magnetic field control of the dayside ion temperatures in the ionosphere of Venus. Journal of Geophysical Research, 1997, 102, 435-438.	3.3	2
98	A Career in Thin Air. Journal of Geophysical Research: Space Physics, 2019, 124, 7966-7970.	2.4	2
99	Comment on "Heliospheric evidence of hot oxygen in the upper atmosphere of Venus". Geophysical Research Letters, 1993, 20, 759-760.	4.0	0
100	Plasma Flow and Related Phenomena in Planetary Aeronomy. Space Sciences Series of ISSI, 2008, , 311-353.	0.0	0