

Andrew F Nagy

List of Publications by Year in descending order

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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	Formation and Evolution of the Large-Scale Magnetic Fields in Venus' Ionosphere: Results From a Three Dimensional Global Multispecies MHD Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087593.	4.0	12
2	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
3	A Career in Thin Air. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7966-7970.	2.4	2
4	Electron Density Distributions in Saturn's Ionosphere. <i>Geophysical Research Letters</i> , 2019, 46, 3061-3068.	4.0	27
5	Saturn's Ionosphere: Electron Density Altitude Profiles and Ring Interaction From The Cassini Grand Finale. <i>Geophysical Research Letters</i> , 2019, 46, 9362-9369.	4.0	20
6	Reconnection in the Martian Magnetotail: Hall-MHD With Embedded Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3742-3763.	2.4	20
7	Saturn's Ionosphere. , 2018, , 196-223.		3
8	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
9	Chemical interactions between Saturn's atmosphere and its rings. <i>Science</i> , 2018, 362, .	12.6	73
10	Solar Wind Interaction With the Martian Upper Atmosphere: Roles of the Cold Thermosphere and Hot Oxygen Corona. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6639-6654.	2.4	14
11	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
12	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
13	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
14	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
15	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
16	Current understanding of the aeronomy of Mars. <i>Geoscience Letters</i> , 2015, 2, .	3.3	3
17	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
18	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

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19	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
20	The ionosphere of Saturn as observed by the Cassini Radio Science System. <i>Geophysical Research Letters</i> , 2014, 41, 5778-5782.	4.0	21
21	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
22	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
23	The importance of thermal electron heating in Titan's ionosphere: Comparison with Cassini T34 flyby. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	11
24	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
25	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151.	2.5	108
26	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
27	On the effect of the martian crustal magnetic field on atmospheric erosion. <i>Icarus</i> , 2010, 206, 130-138.	2.5	57
28	Water loss and evolution of the upper atmosphere and exosphere over martian history. <i>Icarus</i> , 2010, 206, 28-39.	2.5	40
29	Escape probability of Martian atmospheric ions: Controlling effects of the electromagnetic fields. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
30	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
31	Time-dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
32	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
33	Composition and Structure of the Ionosphere and Thermosphere. , 2009, , 259-295.		25
34	Upper Atmosphere and Ionosphere of Saturn. , 2009, , 181-201.		25
35	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , 2008, 139, 311-353.	8.1	30
36	Solar System Ionospheres. <i>Space Science Reviews</i> , 2008, 139, 235-265.	8.1	48

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37	Pickup oxygen ion velocity space and spatial distribution around Mars. Journal of Geophysical Research, 2008, 113, .	3.3	80
38	First results from the Cassini radio occultations of the Titan ionosphere. Journal of Geophysical Research, 2008, 113, .	3.3	63
39	Plasma Flow and Related Phenomena in Planetary Aeronomy. Space Sciences Series of ISSI, 2008, , 311-353.	0.0	0
40	Ion escape fluxes from Mars. Geophysical Research Letters, 2007, 34, .	4.0	80
41	3D global multispecies Hall-MHD simulation of the Cassini T9 flyby. Geophysical Research Letters, 2007, 34, .	4.0	58
42	Mars Global MHD Predictions of Magnetic Connectivity Between the Dayside Ionosphere and the Magnetospheric Flanks. Space Science Reviews, 2007, 126, 63-76.	8.1	31
43	Comparisons between MHD model calculations and observations of Cassini flybys of Titan. Journal of Geophysical Research, 2006, 111, .	3.3	95
44	First results from the ionospheric radio occultations of Saturn by the Cassini spacecraft. Journal of Geophysical Research, 2006, 111, .	3.3	56
45	Cassini radio occultations of Saturn's ionosphere: Model comparisons using a constant water flux. Geophysical Research Letters, 2006, 33, .	4.0	46
46	Outstanding aeronomy problems at Venus. Planetary and Space Science, 2006, 54, 1381-1388.	1.7	16
47	Cassini Radio Science. Space Science Reviews, 2004, 115, 1-70.	8.1	75
48	Three-dimensional, multispecies, high spatial resolution MHD studies of the solar wind interaction with Mars. Journal of Geophysical Research, 2004, 109, .	3.3	241
49	3-D global MHD model prediction for the first close flyby of Titan by Cassini. Geophysical Research Letters, 2004, 31, .	4.0	35
50	Hot carbon densities in the exosphere of Venus. Journal of Geophysical Research, 2004, 109, .	3.3	3
51	GPR, a ground-penetrating radar for the Netlander mission. Journal of Geophysical Research, 2003, 108, .	3.3	28
52	Comparisons of electron fluxes measured in the crustal fields at Mars by the MGS magnetometer/electron reflectometer instrument with a field-dependent transport code. Journal of Geophysical Research, 2003, 108, .	3.3	35
53	Meteoritic material – an important component of planetary atmospheres. Geophysical Monograph Series, 2002, , 235-244.	0.1	11
54	Three-dimensional multispecies MHD studies of the solar wind interaction with Mars in the presence of crustal fields. Journal of Geophysical Research, 2002, 107, SMP 6-1.	3.3	148

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55	Ionosphere of Callisto from Galileo radio occultation observations. Journal of Geophysical Research, 2002, 107, SIA 19-1.	3.3	50
56	Solar system ionospheres. Geophysical Monograph Series, 2002, , 39-54.	0.1	27
57	The interaction between the magnetosphere of Saturn and Titan's ionosphere. Journal of Geophysical Research, 2001, 106, 6151-6160.	3.3	62
58	Hot carbon densities in the exosphere of Mars. Journal of Geophysical Research, 2001, 106, 21565-21568.	3.3	38
59	Two-species, 3D, MHD simulation of Europa's interaction with Jupiter's magnetosphere. Geophysical Research Letters, 2000, 27, 1791-1794.	4.0	18
60	3D multi-fluid MHD studies of the solar wind interaction with Mars. Geophysical Research Letters, 1999, 26, 2689-2692.	4.0	53
61	Titans ionosphere : a review. Planetary and Space Science, 1998, 46, 1149-1155.	1.7	46
62	Hot oxygen corona at Europa. Geophysical Research Letters, 1998, 25, 4153-4155.	4.0	14
63	A three-dimensional MHD study of solar wind mass loading processes at Venus: Effects of photoionization, electron impact ionization, and charge exchange. Journal of Geophysical Research, 1998, 103, 23625-23638.	3.3	53
64	Solar cycle variability of hot oxygen atoms at Mars. Journal of Geophysical Research, 1998, 103, 29339-29342.	3.3	134
65	The Ionosphere of Europa from Galileo Radio Occultations. Science, 1997, 277, 355-358.	12.6	129
66	Magnetic field control of the dayside ion temperatures in the ionosphere of Venus. Journal of Geophysical Research, 1997, 102, 435-438.	3.3	2
67	All ionospheres are not alike: Reports from other planets. Reviews of Geophysics, 1995, 33, 525.	23.0	6
68	A theoretical study concerning the solar cycle dependence of the nightside ionosphere of Venus. Journal of Geophysical Research, 1995, 100, 14507.	3.3	15
69	The energetics of Titan's ionosphere. Journal of Geophysical Research, 1994, 99, 2087.	3.3	43
70	A bounce-averaged kinetic model of the ring current ion population. Geophysical Research Letters, 1994, 21, 2785-2788.	4.0	77
71	Comment on "Ionospheric evidence of hot oxygen in the upper atmosphere of Venus". Geophysical Research Letters, 1993, 20, 759-760.	4.0	0
72	Energetics of the dayside ionosphere of Venus. Geophysical Research Letters, 1993, 20, 1523-1526.	4.0	16

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73	Non-steady-state transport of superthermal electrons in the plasmasphere. Geophysical Research Letters, 1993, 20, 2821-2824.	4.0	36
74	Analytic description of the electron temperature behavior in the upper ionosphere and plasmasphere. Geophysical Research Letters, 1992, 19, 1915-1918.	4.0	14
75	Analysis of the ionosphere-plasmasphere transport of superthermal electrons, 1. Transport in the plasmasphere. Journal of Geophysical Research, 1992, 97, 16887-16895.	3.3	19
76	A comprehensive magnetohydrodynamic model of the Venus ionosphere. Journal of Geophysical Research, 1991, 96, 11083-11095.	3.3	25
77	A two dimensional shock capturing, hydrodynamic model of the Venus ionosphere. Geophysical Research Letters, 1991, 18, 801-804.	4.0	20
78	Venus mantle-Mars planetosphere: What are the similarities and differences?. Geophysical Research Letters, 1990, 17, 865-868.	4.0	30
79	Wave activity in the neighborhood of the bowshock of Mars. Geophysical Research Letters, 1990, 17, 893-896.	4.0	55
80	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
81	Observation of electron and ion fluxes in the vicinity of Mars with the HARP spectrometer. Nature, 1989, 341, 614-616.	27.8	53
82	Hot oxygen atoms in the upper atmospheres of Venus and Mars. Geophysical Research Letters, 1988, 15, 433-435.	4.0	186
83	The effect of the hot oxygen corona on the interaction of the solar wind with Venus. Geophysical Research Letters, 1987, 14, 503-506.	4.0	31
84	A one-dimensional time-dependent model of the magnetized ionosphere of Venus. Journal of Geophysical Research, 1987, 92, 7317-7330.	3.3	58
85	Electron impact ionization in the vicinity of comets. Journal of Geophysical Research, 1987, 92, 7341-7353.	3.3	158
86	Detection of a new "chemical" boundary at comet Halley. Geophysical Research Letters, 1986, 13, 613-616.	4.0	70
87	A time-dependent theoretical model of the polar wind: Preliminary results. Geophysical Research Letters, 1985, 12, 167-170.	4.0	80
88	The evolution of large-scale magnetic fields in the ionosphere of Venus. Geophysical Research Letters, 1984, 11, 267-270.	4.0	65
89	A two-dimensional model of the ionosphere of Venus. Journal of Geophysical Research, 1983, 88, 5595-5606.	3.3	79
90	Hot hydrogen in the exosphere of Venus. Nature, 1980, 283, 178-180.	27.8	45

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91	Model calculations of the dayside ionosphere of Venus: Ionic composition. Journal of Geophysical Research, 1980, 85, 7795-7801.	3.3	119
92	Ionospheres of the terrestrial planets. Reviews of Geophysics, 1980, 18, 813-852.	23.0	229
93	The ionosphere of Saturn: Predictions for Pioneer 11. Geophysical Research Letters, 1979, 6, 723-726.	4.0	21
94	Electron temperatures in the F region of the ionosphere: Theory and observations. Reviews of Geophysics, 1978, 16, 355-399.	23.0	419
95	Electron temperatures in the Jovian ionosphere. Journal of Geophysical Research, 1976, 81, 5567-5569.	3.3	20
96	Photoelectron fluxes in the ionosphere. Journal of Geophysical Research, 1970, 75, 6260-6270.	3.3	342
97	Ionospheric electron temperature calculations including protonospheric and conjugate effects. Journal of Geophysical Research, 1969, 74, 4667-4676.	3.3	49
98	Nighttime cooling of the protonosphere. Journal of Geophysical Research, 1968, 73, 6259-6274.	3.3	39
99	Direct measurements bearing on the extent of thermal nonequilibrium in the ionosphere. Journal of Geophysical Research, 1963, 68, 6401-6412.	3.3	49
100	Time-Dependent Numerical Simulation of Hot Ion Outflow from the Polar Ionosphere. Geophysical Monograph Series, 0, , 366-371.	0.1	7