Andrew N Wright

List of Publications by Year
in descending order

51 papers	1,461 citations	304743 22 h-index	330143 37 g-index
52 all docs	52 docs citations	52 times ranked	697 citing authors

#	Article	IF	Citations
1	Excitation of magnetospheric waveguide modes by magnetosheath flows. Journal of Geophysical Research, 1999, 104, 333-353.	3.3	195
2	Dispersion and wave coupling in inhomogeneous MHD waveguides. Journal of Geophysical Research, 1994, 99, 159.	3.3	140
3	Coupling of magnetospheric cavity modes to field line resonances: A study of resonance widths. Journal of Geophysical Research, 1995, 100, 19441.	3.3	108
4	The effect of reconnection upon the linkage and interior structure of magnetic flux tubes. Journal of Geophysical Research, 1989, 94, 1295-1302.	3.3	91
5	A numerical study of resonant absorption in a magnetohydrodynamic cavity driven by a broadband spectrum. Astrophysical Journal, 1995, 444, 458.	4.5	70
6	Finite lifetimes of ideal poloidal AlfvÃ©n waves. Journal of Geophysical Research, 1995, 100, 23677.	3.3	64
7	ULF pulsations in a magnetospheric waveguide: Comparison of real and simulated satellite data. Journal of Geophysical Research, 1995, 100, 3531-3537.	3.3	51
8	AlfvÃ©n resonance excitation and fast wave propagation in magnetospheric waveguides. Journal of Geophysical Research, 1994, 99, 13455.	3.3	47
9	Coronal heating by the phase mixing of individual pulses propagating in coronal holes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 2307-2325.	2.1	45
10	Analytical treatment of AlfvÃ©n resonances and singularities in nonuniform magnetoplasmas. Physics of Plasmas, 1994, 1, 691-705.	1.9	41
11	The evolution of an isolated reconnected flux tube. Planetary and Space Science, 1987, 35, 813-819.	1.7	31
12	Structure, phase motion, and heating within AlfvÃ©n resonances. Journal of Geophysical Research, 1996, 101, 17399-17408.	3.3	31
13	Phase mixing and phase motion of AlfvÃ©n waves on tail-like and dipole-like magnetic field lines. Journal of Geophysical Research, 1999, 104, 10159-10175.	3.3	31
14	SOLAR PROMINENCES EMBEDDED IN FLUX ROPES: MORPHOLOGICAL FEATURES AND DYNAMICS FROM 3D MHD SIMULATIONS. Astrophysical Journal, 2016, 820, 125.	4.5	31
15	Asymptotic and timeâ€dependent solutions of magnetic pulsations in realistic magnetic field geometries. Journal of Geophysical Research, 1992, 97, 6439-6450.	3.3	30
16	ULF pulsations driven by magnetopause motions: Azimuthal phase characteristics. Journal of Geophysical Research, 1995, 100, 23703.	3.3	29
17	Global MHD eigenmodes of the outer magnetosphere. Geophysical Monograph Series, 2006, , 51-72.	0.1	29
18	Multiple-timescales analysis of ideal poloidal AlfvÃ©n waves. Journal of Geophysical Research, 1997, 102, 2381-2390.	3.3	25

#	Article	IF	Citations
19	APPARENT CROSS-FIELD SUPERSLOW PROPAGATION OF MAGNETOHYDRODYNAMIC WAVES IN SOLAR PLASMAS. Astrophysical Journal, 2015, 812, 121.	4.5	25
20	THE THEORETICAL FOUNDATION OF 3D ALFVÃ‰N RESONANCES: NORMAL MODES. Astrophysical Journal, 2016, 833, 230.	4.5	24
21	Resonant AlfvÃ©n wave excitation in twoâ€dimensional systems: Singularities in partial differential equations. Journal of Geophysical Research, 1993, 98, 15541-15551.	3.3	22
22	Production of smallâ€scale AlfvÃ©n waves by ionospheric depletion, nonlinear magnetosphereâ€ionosphere coupling and phase mixing. Journal of Geophysical Research: Space Physics, 2013, 118, 1450-1460.	2.4	22
23	Simulations of MHD Wave Propagation and Coupling in a 3â€Ð Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027589.	2.4	22
24	A physical description of magnetic helicity evolution in the presence of reconnection lines. Journal of Plasma Physics, 1991, 46, 179-199.	2.1	20
25	Observations and analysis of AlfvÃ©n wave phase mixing in the Earth's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	20
26	The Broadband Excitation of 3â€Ð AlfvÃ©n Resonances in a MHD Waveguide. Journal of Geophysical Research: Space Physics, 2018, 123, 530-547.	2.4	18
27	The theoretical foundation of 3â€Ð AlfvÃ©n resonances: Timeâ€dependent solutions. Journal of Geophysical Research: Space Physics, 2017, 122, 3247-3261.	2.4	16
28	Resonant absorption in expanding coronal magnetic flux tubes with uniform density. Astronomy and Astrophysics, 2019, 631, A105.	5.1	16
29	Resonant absorption with 2D variation of field line eigenfrequencies. Astronomy and Astrophysics, 2010, 511, A17.	5.1	15
30	Modeling the Dawn/Dusk Asymmetry of Field Line Resonances. Journal of Geophysical Research: Space Physics, 2018, 123, 6443-6456.	2.4	14
31	The Effect of Fast Normal Mode Structure and Magnetopause Forcing on FLRs in a 3â€Ð Waveguide. Journal of Geophysical Research: Space Physics, 2019, 124, 178-196.	2.4	14
32	Evolution of Highâ€m Poloidal AlfvÃ©n Waves in a Dipole Magnetic Field. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028187.	2.4	11
33	On the existence of transverse MHD oscillations in an inhomogeneous magnetoplasma. Journal of Plasma Physics, 1990, 43, 83-99.	2.1	10
34	Selfâ€consistent ionospheric plasma density modifications by fieldâ€aligned currents: Steady state solutions. Journal of Geophysical Research, 2010, 115, .	3.3	10
35	How a Realistic Magnetosphere Alters the Polarizations of Surface, Fast Magnetosonic, and AlfvÃ©n Waves. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	10
36	The interior structure of reconnected flux tubes in a sheared plasma flow. Journal of Geophysical Research, 1990, 95, 8029-8036.	3.3	9

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37	Nonstationary driven oscillations of a magnetic cavity. Physics of Plasmas, 2000, 7, 3515-3530.	1.9	8
38	Observations of apparent superslow wave propagation in solar prominences. Astronomy and Astrophysics, 2017, 602, A75.	5.1	8
39	Resonance Maps for 3D AlfvÃ©n Waves in a Compressed Dipole Field. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8
40	The use of the Poynting vector in interpreting ULF waves in magnetospheric waveguides. Journal of Geophysical Research: Space Physics, 2015, 120, 166-186.	2.4	7
41	Partitioning of Magnetic Helicity in Reconnected Flux Tubes. Astrophysical Journal, 2019, 878, 102.	4.5	6
42	Polarization Properties of 3â€D Field Line Resonances. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
43	Contributions to the magnetospheric parallel electric field. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	5
44	MHD wave coupling in inhomogeneous media. Geophysical Research Letters, 1991, 18, 1951-1954.	4.0	4
45	Magnetosphereâ€ionosphere waves. Journal of Geophysical Research, 2012, 117, .	3.3	4
46	Deciphering satellite observations of compressional ULF waveguide modes. Journal of Geophysical Research: Space Physics, 2016, 121, 3381-3394.	2.4	4
47	How Is Helicity (and Twist) Partitioned in Magnetohydrodynamic Simulations of Reconnecting Magnetic Flux Tubes?. Astrophysical Journal, 2020, 898, 1.	4.5	3
48	On the existence of compressional MHD oscillations in an inhomogeneous magnetoplasma. Journal of Plasma Physics, 1990, 44, 361-375.	2.1	2
49	Line-tied Boundary Conditions Can Cause Resonant Absorption Models to Generate Unphysically Large Boundary Layers. Astrophysical Journal, 2021, 914, 15.	4.5	2
50	Coupled AlfvÃ©n and kink oscillations in an inhomogeneous corona. Proceedings of the International Astronomical Union, 2010, 6, 129-132.	0.0	0
51	Poleward Moving Auroral Arcs and Pc5 Oscillations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	0