Wendell Horton

List of Publications by Year
in descending order

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51 papers	2,344 citations	471509 17 h-index	223800 46 g-index
53 all docs	53 docs citations	53 times ranked	1442 citing authors

#	Article	IF	Citations
1	The Stationary Concentrated Vortex Model. Climate, 2021, 9, 39.	2.8	2
2	Shear Flowâ€Interchange Instability in Nightside Magnetotail as Proposed Cause of Auroral Beads as a Signature of Substorm Onset. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026885.	2.4	3
3	Dust Devils: Structural Features, Dynamics and Climate Impact. Climate, 2019, 7, 12.	2.8	10
4	Electron critical gradient scale length measurements of ICRF heated L-mode plasmas at Alcator C-Mod tokamak. Physics of Plasmas, 2018, 25, 042305.	1.9	4
5	Tornado model for a magnetised plasma. Physics of Plasmas, 2018, 25, .	1.9	7
6	Numerical simulations of interchange/tearing instabilities in 2D slab with a numerical model for edge plasma. Physics of Plasmas, 2017, 24, .	1.9	1
7	Plasma turbulence in the equatorial electrojet: A two-dimensional Hamiltonian fluid model. Physics of Plasmas, 2017, 24, 072301.	1.9	0
8	Response to â€œComment on â€˜Large-scale AlfvÃ©n vorticesâ€™â€•[Phys. Plasmas 23, 034703 (2016)]. Physics of Plasmas, 2016, 23, 034704.	1.9	0
9	Multiscale equatorial electrojet turbulence: Energy conservation, coupling, and cascades in a baseline 2â€D fluid model. Journal of Geophysical Research: Space Physics, 2016, 121, 9127-9145.	2.4	2
10	â€œExplosively growingâ€•vortices of unstably stratified atmosphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,264.	3.3	18
11	Dust devil dynamics. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7197-7214.	3.3	19
12	Large-scale AlfvÃ©n vortices. Physics of Plasmas, 2015, 22, .	1.9	7
13	Ion thermal and dispersion effects in Farley-Buneman instabilities. Physics of Plasmas, 2015, 22, 082112.	1.9	1
14	Multiscale equatorial electrojet turbulence:Baseline 2â€D model. Journal of Geophysical Research: Space Physics, 2015, 120, 1460-1477.	2.4	9
15	Rolls of the internal gravity waves in the Earth's atmosphere. Annales Geophysicae, 2014, 32, 181-186.	1.6	10
16	Dust devil generation. Physica Scripta, 2014, 89, 075606.	2.5	18
17	Zonal flows and magnetic fields driven by largeâ€amplitude Rossbyâ€AlfvÃ©nâ€Khantadze waves in the Eâ€layer ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 7822-7833.	2.4	8
18	Parameter Optimization Studies for a Tandem Mirror Neutron Source. Journal of Fusion Energy, 2010, 29, 521-526.	1.2	3

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19	Reduction of chaotic particle transport driven by drift waves in sheared flows. Physics of Plasmas, 2008, 15, .	1.9	34
20	Analysis of the 3-7 October 2000 and 15-24 April 2002 geomagnetic storms with an optimized nonlinear dynamical model. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	20
21	Global energy confinement scaling predictions for the kinetically stabilized tandem mirror. Physics of Plasmas, 2006, 13, 042513.	1.9	16
22	Synoptic-scale nonlinear stationary magnetized Rossby waves in the ionospheric E-layer. Plasma Physics Reports, 2006, 32, 996-1006.	0.9	10
23	The dynamics of storms and substorms with the WINDMI model. Advances in Space Research, 2006, 38, 1657-1668.	2.6	4
24	Nonlinear three-mode interaction and drift-wave turbulence in a tokamak edge plasma. Physics of Plasmas, 2006, 13, 042510.	1.9	22
25	WINDMI: A FAMILY OF PHYSICS NETWORK MODELS FOR STORMS AND SUBSTORMS. , 2005, , 431-445.		6
26	A relativistic beam-plasma system with electromagnetic waves. Physics of Plasmas, 2005, 12, 072108.	1.9	13
27	Substorm injections produce sufficient electron energization to account for MeV flux enhancements following some storms. Journal of Geophysical Research, 2005, 110, .	3.3	21
28	Electron transport and the critical temperature gradient. Physics of Plasmas, 2004, 11, 2600-2606.	1.9	37
29	Theory of magnetized Rossby waves in the ionosphericElayer. Journal of Geophysical Research, 2004, 109, .	3.3	28
30	Nonlinear dynamics of the firehose instability in a magnetic dipole geotail. Journal of Geophysical Research, 2004, 109, .	3.3	5
31	Density profile control with current ramping in a transport simulation of IGNITOR. Physics of Plasmas, 2003, 10, 1015-1021.	1.9	9
32	Multiwave model for plasmaâ€“wave interaction. Physics of Plasmas, 2003, 10, 4090-4094.	1.9	13
33	Substorm classification with the WINDMI model. Nonlinear Processes in Geophysics, 2003, 10, 363-371.	1.3	13
34	Ignitor physics assessment and confinement projections. Nuclear Fusion, 2002, 42, 169-179.	3.5	11
35	Experimental Determination of Critical Threshold in Electron Transport on Tore Supra. Physical Review Letters, 2001, 87, 125001.	7.8	115
36	Electron transport in Tore Supra with fast wave electron heating. Physics of Plasmas, 2000, 7, 1494-1510.	1.9	73

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37	Transport barrier dynamics. Physics of Plasmas, 2000, 7, 4534-4546.	1.9	5
38	Drift waves and transport. Reviews of Modern Physics, 1999, 71, 735-778.	45.6	1,003
39	Excitation of ion acoustic solitons from grids. Journal of Plasma Physics, 1999, 61, 161-168.	2.1	14
40	A low-dimensional dynamical model for the solar wind driven geotail-ionosphere system. Journal of Geophysical Research, 1998, 103, 4561-4572.	3.3	69
41	Quasiâ€twoâ€dimensional dynamics of plasmas and fluids. Chaos, 1994, 4, 227-251.	2.5	153
42	Toroidal kinetic Î·iâ€mode study in highâ€temperature plasmas. Physics of Fluids B, 1992, 4, 1867-1876.	1.7	91
43	Drift wave vortices in nonuniform plasmas with sheared magnetic fields. Physics of Fluids B, 1992, 4, 1238-1246.	1.7	17
44	Transport from chaotic orbits in the geomagnetic tail. Geophysical Research Letters, 1991, 18, 1583-1586.	4.0	16
45	Stochastic mixing of protons from chaotic orbits in the nightside geomagnetosphere. Geophysical Research Letters, 1991, 18, 1575-1578.	4.0	9
46	Drift wave vortices in inhomogeneous plasmas. Physics of Fluids B, 1991, 3, 921-930.	1.7	33
47	Ionospheric accelerator. Laser and Particle Beams, 1989, 7, 637-643.	1.0	0
48	Laser Acceleration of Particles with the Plasma Vector-Soliton. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1987, 42, 1199-1207.	1.5	0
49	The intrinsic electromagnetic solitary vortices in magnetized plasma. Journal of Plasma Physics, 1986, 36, 1-24.	2.1	32
50	Solitary drift waves in the presence of magnetic shear. Physics of Fluids, 1983, 26, 990.	1.4	165
51	Directions of Geomagnetic Fluctuations at Some Soviet Arctic Stations. Journal of Geomagnetism and Geoelectricity, 1965, 17, 499-505.	0.9	3