

Wendell Horton

List of Publications by Year in descending order

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51
papers

2,344
citations

471477

17
h-index

223791

46
g-index

53
all docs

53
docs citations

53
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Drift waves and transport. <i>Reviews of Modern Physics</i> , 1999, 71, 735-778.	45.6	1,003
2	Solitary drift waves in the presence of magnetic shear. <i>Physics of Fluids</i> , 1983, 26, 990.	1.4	165
3	Quasi-two-dimensional dynamics of plasmas and fluids. <i>Chaos</i> , 1994, 4, 227-251.	2.5	153
4	Experimental Determination of Critical Threshold in Electron Transport on Tore Supra. <i>Physical Review Letters</i> , 2001, 87, 125001.	7.8	115
5	Toroidal kinetic \hat{v} -mode study in high-temperature plasmas. <i>Physics of Fluids B</i> , 1992, 4, 1867-1876.	1.7	91
6	Electron transport in Tore Supra with fast wave electron heating. <i>Physics of Plasmas</i> , 2000, 7, 1494-1510.	1.9	73
7	A low-dimensional dynamical model for the solar wind driven geotail-ionosphere system. <i>Journal of Geophysical Research</i> , 1998, 103, 4561-4572.	3.3	69
8	Electron transport and the critical temperature gradient. <i>Physics of Plasmas</i> , 2004, 11, 2600-2606.	1.9	37
9	Reduction of chaotic particle transport driven by drift waves in sheared flows. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	34
10	Drift wave vortices in inhomogeneous plasmas. <i>Physics of Fluids B</i> , 1991, 3, 921-930.	1.7	33
11	The intrinsic electromagnetic solitary vortices in magnetized plasma. <i>Journal of Plasma Physics</i> , 1986, 36, 1-24.	2.1	32
12	Theory of magnetized Rossby waves in the ionospheric layer. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	28
13	Nonlinear three-mode interaction and drift-wave turbulence in a tokamak edge plasma. <i>Physics of Plasmas</i> , 2006, 13, 042510.	1.9	22
14	Substorm injections produce sufficient electron energization to account for MeV flux enhancements following some storms. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	21
15	Analysis of the 3-7 October 2000 and 15-24 April 2002 geomagnetic storms with an optimized nonlinear dynamical model. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	20
16	Dust devil dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7197-7214.	3.3	19
17	Dust devil generation. <i>Physica Scripta</i> , 2014, 89, 075606.	2.5	18
18	Explosively growing vortices of unstably stratified atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,264.	3.3	18

#	ARTICLE	IF	CITATIONS
19	Drift wave vortices in nonuniform plasmas with sheared magnetic fields. <i>Physics of Fluids B</i> , 1992, 4, 1238-1246.	1.7	17
20	Transport from chaotic orbits in the geomagnetic tail. <i>Geophysical Research Letters</i> , 1991, 18, 1583-1586.	4.0	16
21	Global energy confinement scaling predictions for the kinetically stabilized tandem mirror. <i>Physics of Plasmas</i> , 2006, 13, 042513.	1.9	16
22	Excitation of ion acoustic solitons from grids. <i>Journal of Plasma Physics</i> , 1999, 61, 161-168.	2.1	14
23	Multiwave model for plasma-wave interaction. <i>Physics of Plasmas</i> , 2003, 10, 4090-4094.	1.9	13
24	Substorm classification with the WINDMI model. <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 363-371.	1.3	13
25	A relativistic beam-plasma system with electromagnetic waves. <i>Physics of Plasmas</i> , 2005, 12, 072108.	1.9	13
26	Ignitor physics assessment and confinement projections. <i>Nuclear Fusion</i> , 2002, 42, 169-179.	3.5	11
27	Synoptic-scale nonlinear stationary magnetized Rossby waves in the ionospheric E-layer. <i>Plasma Physics Reports</i> , 2006, 32, 996-1006.	0.9	10
28	Rolls of the internal gravity waves in the Earth's atmosphere. <i>Annales Geophysicae</i> , 2014, 32, 181-186.	1.6	10
29	Dust Devils: Structural Features, Dynamics and Climate Impact. <i>Climate</i> , 2019, 7, 12.	2.8	10
30	Stochastic mixing of protons from chaotic orbits in the nightside geomagnetosphere. <i>Geophysical Research Letters</i> , 1991, 18, 1575-1578.	4.0	9
31	Density profile control with current ramping in a transport simulation of IGNITOR. <i>Physics of Plasmas</i> , 2003, 10, 1015-1021.	1.9	9
32	Multiscale equatorial electrojet turbulence: Baseline 2D model. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1460-1477.	2.4	9
33	Zonal flows and magnetic fields driven by large-amplitude Rossby-Alfvén-Khantadze waves in the E-layer ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7822-7833.	2.4	8
34	Large-scale Alfvén vortices. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
35	Tornado model for a magnetised plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
36	WINDMI: A FAMILY OF PHYSICS NETWORK MODELS FOR STORMS AND SUBSTORMS. , 2005, , 431-445.		6

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37	Transport barrier dynamics. <i>Physics of Plasmas</i> , 2000, 7, 4534-4546.	1.9	5
38	Nonlinear dynamics of the firehose instability in a magnetic dipole geotail. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	5
39	The dynamics of storms and substorms with the WINDMI model. <i>Advances in Space Research</i> , 2006, 38, 1657-1668.	2.6	4
40	Electron critical gradient scale length measurements of ICRF heated L-mode plasmas at Alcator C-Mod tokamak. <i>Physics of Plasmas</i> , 2018, 25, 042305.	1.9	4
41	Parameter Optimization Studies for a Tandem Mirror Neutron Source. <i>Journal of Fusion Energy</i> , 2010, 29, 521-526.	1.2	3
42	Shear Flow Interchange Instability in Nightside Magnetotail as Proposed Cause of Auroral Beads as a Signature of Substorm Onset. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026885.	2.4	3
43	Directions of Geomagnetic Fluctuations at Some Soviet Arctic Stations. <i>Journal of Geomagnetism and Geoelectricity</i> , 1965, 17, 499-505.	0.9	3
44	Multiscale equatorial electrojet turbulence: Energy conservation, coupling, and cascades in a baseline 2D fluid model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9127-9145.	2.4	2
45	The Stationary Concentrated Vortex Model. <i>Climate</i> , 2021, 9, 39.	2.8	2
46	Ion thermal and dispersion effects in Farley-Buneman instabilities. <i>Physics of Plasmas</i> , 2015, 22, 082112.	1.9	1
47	Numerical simulations of interchange/tearing instabilities in 2D slab with a numerical model for edge plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	1
48	Laser Acceleration of Particles with the Plasma Vector-Soliton. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1987, 42, 1199-1207.	1.5	0
49	Ionospheric accelerator. <i>Laser and Particle Beams</i> , 1989, 7, 637-643.	1.0	0
50	Response to "Comment on "Large-scale Alfvén vortices" [Phys. Plasmas 23, 034703 (2016)]. <i>Physics of Plasmas</i> , 2016, 23, 034704.	1.9	0
51	Plasma turbulence in the equatorial electrojet: A two-dimensional Hamiltonian fluid model. <i>Physics of Plasmas</i> , 2017, 24, 072301.	1.9	0