

Timothy Horbury

List of Publications by Year in descending order

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84
papers

5,416
citations

101543

36
h-index

82547

72
g-index

84
all docs

84
docs citations

84
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Flux Rope Merging and the Structure of Switchbacks in the Solar Wind. <i>Astrophysical Journal</i> , 2022, 925, 213.	4.5	11
2	Analysis of multiscale structures at the quasi-perpendicular Venus bow shock. <i>Astronomy and Astrophysics</i> , 2022, 660, A64.	5.1	5
3	Flux rope and dynamics of the heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2022, 659, A110.	5.1	20
4	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , 2022, 927, 62.	4.5	3
5	On the Transmission of Turbulent Structures across the Earth's Bow Shock. <i>Astrophysical Journal</i> , 2022, 933, 167.	4.5	15
6	First near-relativistic solar electron events observed by EPD onboard Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, L3.	5.1	16
7	Radial evolution of the April 2020 stealth coronal mass ejection between 0.8 and 1 AU. <i>Astronomy and Astrophysics</i> , 2021, 656, A1.	5.1	15
8	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probe's Solar Orbiter Radial Alignment. <i>Astrophysical Journal Letters</i> , 2021, 912, L21.	8.3	49
9	Kinetic electrostatic waves and their association with current structures in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A23.	5.1	12
10	Switchbacks as signatures of magnetic flux ropes generated by interchange reconnection in the corona. <i>Astronomy and Astrophysics</i> , 2021, 650, A2.	5.1	80
11	Multi-spacecraft observations of the structure of the sheath of an interplanetary coronal mass ejection and related energetic ion enhancement. <i>Astronomy and Astrophysics</i> , 2021, 656, A8.	5.1	14
12	Study of two interacting interplanetary coronal mass ejections encountered by Solar Orbiter during its first perihelion passage. <i>Astronomy and Astrophysics</i> , 2021, 656, A5.	5.1	9
13	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L1.	5.1	43
14	The first widespread solar energetic particle event observed by Solar Orbiter on 2020 November 29. <i>Astronomy and Astrophysics</i> , 2021, 656, A20.	5.1	36
15	Statistical analysis of orientation, shape, and size of solar wind switchbacks. <i>Astronomy and Astrophysics</i> , 2021, 650, A1.	5.1	34
16	Density fluctuations associated with turbulence and waves. <i>Astronomy and Astrophysics</i> , 2021, 656, A19.	5.1	24
17	First year of energetic particle measurements in the inner heliosphere with Solar Orbiter's Energetic Particle Detector. <i>Astronomy and Astrophysics</i> , 2021, 656, A22.	5.1	29
18	Evidence for local particle acceleration in the first recurrent galactic cosmic ray depression observed by Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, L10.	5.1	2

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19	Solar Orbiter observations of an ion-scale flux rope confined to a bifurcated solar wind current sheet. <i>Astronomy and Astrophysics</i> , 2021, 656, A27.	5.1	6
20	Active Region Contributions to the Solar Wind over Multiple Solar Cycles. <i>Solar Physics</i> , 2021, 296, 1.	2.5	14
21	Plasma properties, switchback patches, and low v_{\perp} -particle abundance in slow Alfvénic coronal hole wind at 0.13 au. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 236-244.	4.4	9
22	Multi-spacecraft study of the solar wind at solar minimum: Dependence on latitude and transient outflows. <i>Astronomy and Astrophysics</i> , 2021, 652, A105.	5.1	9
23	Solar Orbiter observations of the structure of reconnection outflow layers in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, L8.	5.1	5
24	Magnetic reconnection as a mechanism to produce multiple thermal proton populations and beams locally in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A37.	5.1	12
25	Solar Orbiter's encounter with the tail of comet C/2019 Y4 (ATLAS): Magnetic field draping and cometary pick-up ion waves. <i>Astronomy and Astrophysics</i> , 2021, 656, A39.	5.1	4
26	Multiscale views of an Alfvénic slow solar wind: 3D velocity distribution functions observed by the Proton-Alpha Sensor of Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A36.	5.1	12
27	First observations and performance of the RPW instrument on board the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2021, 656, A41.	5.1	9
28	A Solar Source of Alfvénic Magnetic Field Switchbacks: In Situ Remnants of Magnetic Funnel on Supergranulation Scales. <i>Astrophysical Journal</i> , 2021, 923, 174.	4.5	67
29	The Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A1.	5.1	514
30	The Energetic Particle Detector. <i>Astronomy and Astrophysics</i> , 2020, 642, A7.	5.1	107
31	Proton core behaviour inside magnetic field switchbacks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5524-5531.	4.4	29
32	The origin of slow Alfvénic solar wind at solar minimum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 39-44.	4.4	30
33	Highly Alfvénic slow solar wind at 0.3 au during a solar minimum: Helios insights for Parker Solar Probe and Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2020, 633, A166.	5.1	23
34	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 34.	7.7	65
35	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A12.	5.1	80
36	The Solar Orbiter magnetometer. <i>Astronomy and Astrophysics</i> , 2020, 642, A9.	5.1	136

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37	The Solar Orbiter Solar Wind Analyser (SWA) suite. <i>Astronomy and Astrophysics</i> , 2020, 642, A16.	5.1	141
38	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
39	Sharp Alfvénic Impulses in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 45.	7.7	115
40	Thermodynamics of pure fast solar wind: radial evolution of the temperature–speed relationship in the inner heliosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2380-2386.	4.4	23
41	Alpha particle thermodynamics in the inner heliosphere fast solar wind. <i>Astronomy and Astrophysics</i> , 2019, 623, L2.	5.1	25
42	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	27.8	311
43	Highly structured slow solar wind emerging from an equatorial coronal hole. <i>Nature</i> , 2019, 576, 237-242.	27.8	401
44	Radial evolution of the solar wind in pure high-speed streams: HELIOS revised observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 3730-3737.	4.4	42
45	Diagnosing solar wind origins using <i>in situ</i> measurements in the inner heliosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1706-1714.	4.4	48
46	Linear Stability in the Inner Heliosphere: Helios Re-evaluated. <i>Astrophysical Journal</i> , 2019, 887, 234.	4.5	16
47	Predicting Large-scale Coronal Structure for Parker Solar Probe Using Open Source Software. <i>Research Notes of the AAS</i> , 2019, 3, 57.	0.7	6
48	Number density structures in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2018, 613, A62.	5.1	11
49	On the $1/f$ Spectrum in the Solar Wind and Its Connection with Magnetic Compressibility. <i>Astrophysical Journal Letters</i> , 2018, 869, L32.	8.3	53
50	A New Inner Heliosphere Proton Parameter Dataset from the Helios Mission. <i>Solar Physics</i> , 2018, 293, 155.	2.5	34
51	Short, large-amplitude speed enhancements in the near-Sun fast solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 1980-1986.	4.4	95
52	The FIELDS Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 49-82.	8.1	521
53	Measures of three-dimensional anisotropy and intermittency in strong Alfvénic turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 2130-2139.	4.4	35
54	ION KINETIC ENERGY CONSERVATION AND MAGNETIC FIELD STRENGTH CONSTANCY IN MULTI-FLUID SOLAR WIND ALFVÉNIC TURBULENCE. <i>Astrophysical Journal</i> , 2015, 802, 11.	4.5	72

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55	Magnetic field rotations in the solar wind at kinetic scales. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L64-L68.	3.3	18
56	Dependence of solar wind speed on the local magnetic field orientation: Role of Alfvénic fluctuations. <i>Geophysical Research Letters</i> , 2014, 41, 259-265.	4.0	83
57	The role of pressure gradients in driving sunward magnetosheath flows and magnetopause motion. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8117-8125.	2.4	43
58	Ensemble downscaling in coupled solar wind-magnetosphere modeling for space weather forecasting. <i>Space Weather</i> , 2014, 12, 395-405.	3.7	27
59	Magnetospheric "magic" frequencies as magnetopause surface eigenmodes. <i>Geophysical Research Letters</i> , 2013, 40, 5003-5008.	4.0	37
60	Alignment and Scaling of Large-Scale Fluctuations in the Solar Wind. <i>Physical Review Letters</i> , 2013, 110, 025003.	7.8	41
61	THREE-DIMENSIONAL STRUCTURE OF SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2012, 758, 120.	4.5	105
62	Magnetosheath pressure pulses: Generation downstream of the bow shock from solar wind discontinuities. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
63	Magnetic Discontinuities in the Near-Earth Solar Wind: Evidence of In-Transit Turbulence or Remnants of Coronal Structure?. <i>Solar Physics</i> , 2011, 269, 411-420.	2.5	44
64	The Variation of Solar Wind Correlation Lengths Over Three Solar Cycles. <i>Solar Physics</i> , 2010, 262, 191-198.	2.5	34
65	Power and spectral index anisotropy of the entire inertial range of turbulence in the fast solar wind. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 407, L31-L35.	3.3	151
66	Size, shape, and orientation of magnetosheath mirror mode structures. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
67	Conservation of open solar magnetic flux and the floor in the heliospheric magnetic field. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	58
68	Estimating total heliospheric magnetic flux from single-point in situ measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	62
69	Anisotropic Scaling of Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2008, 101, 175005.	7.8	326
70	Kinetic aspects of foreshock cavities. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	25
71	Small-scale solitary wave pulses observed by the Ulysses magnetic field experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
72	Ripples observed on the surface of the Earth's quasi-perpendicular bow shock. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45

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73	Cluster at the Bow Shock: Introduction. <i>Space Science Reviews</i> , 2005, 118, 155-160.	8.1	20
74	Quasi-perpendicular Shock Structure and Processes. <i>Space Science Reviews</i> , 2005, 118, 161-203.	8.1	144
75	Quasi-parallel Shock Structure and Processes. <i>Space Science Reviews</i> , 2005, 118, 205-222.	8.1	119
76	Cluster at the Bow Shock: Status and Outlook. <i>Space Science Reviews</i> , 2005, 118, 223-227.	8.1	4
77	Motion and orientation of magnetic field dips and peaks in the terrestrial magnetosheath. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
78	Ion cyclotron waves in the high altitude cusp: CLUSTER observations at varying spacecraft separations. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	34
79	Cluster observations of fast magnetosonic waves in the terrestrial foreshock. <i>Geophysical Research Letters</i> , 2002, 29, 3-1-3-4.	4.0	43
80	Evolution of magnetic field fluctuations in high-speed solar wind streams: Ulysses and Helios observations. <i>Journal of Geophysical Research</i> , 2001, 106, 15929-15940.	3.3	62
81	Magnetic field depressions in the solar wind. <i>Journal of Geophysical Research</i> , 2000, 105, 12725-12732.	3.3	56
82	Heliospheric magnetic field polarity inversions at high heliographic latitudes. <i>Geophysical Research Letters</i> , 1999, 26, 631-634.	4.0	98
83	Solar wind current sheets and deHoffmann-Teller analysis. First results from Solar Orbiter's DC electric field measurements. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	13
84	High-cadence measurements of electron pitch-angle distributions from Solar Orbiter SWA-EAS burst mode operations. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	5