

# Phyllis Whittlesey

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

4,286  
citations

117625

34  
h-index

114465

63  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 131-186.	8.1	439
2	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	8.1	332
3	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	27.8	311
4	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 53.	7.7	166
5	The Solar Probe Cup on the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 43.	7.7	154
6	Switchbacks in the Near-Sun Magnetic Field: Long Memory and Impact on the Turbulence Cascade. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 39.	7.7	152
7	Sharp Alfvénic Impulses in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 45.	7.7	115
8	The Solar Probe ANALYZERS' Electrons on the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 74.	7.7	114
9	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	7.8	104
10	Magnetic Connectivity of the Ecliptic Plane within 0.5 au: Potential Field Source Surface Modeling of the First Parker Solar Probe Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 23.	7.7	100
11	Electrons in the Young Solar Wind: First Results from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 22.	7.7	99
12	Magnetic Field Kinks and Folds in the Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 32.	7.7	86
13	Switchbacks in the Solar Magnetic Field: Their Evolution, Their Content, and Their Effects on the Plasma. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 68.	7.7	83
14	Ion-scale Electromagnetic Waves in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 66.	7.7	67
15	The Role of Alfvén Wave Dynamics on the Large-scale Properties of the Solar Wind: Comparing an MHD Simulation with Parker Solar Probe E1 Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 24.	7.7	66
16	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34.	7.7	65
17	Parker Solar Probe Observations of Proton Beams Simultaneous with Ion-scale Waves. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 5.	7.7	62
18	Cross Helicity Reversals in Magnetic Switchbacks. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 67.	7.7	61

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19	Identification of Magnetic Flux Ropes from Parker Solar Probe Observations during the First Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 26.	7.7	57
20	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 70.	7.7	56
21	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 48.	7.7	56
22	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the Parker Solar Probe and Comparison with Helios. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 62.	7.7	55
23	Turbulence Transport Modeling and First Orbit Parker Solar Probe (PSP) Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 38.	7.7	53
24	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 37.	7.7	52
25	Measures of Scale-dependent Alfvénicity in the First PSP Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	7.7	51
26	The Heliospheric Current Sheet in the Inner Heliosphere Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 47.	7.7	50
27	Characteristic Scales of Magnetic Switchback Patches Near the Sun and Their Possible Association With Solar Supergranulation and Granulation. <i>Astrophysical Journal</i> , 2021, 919, 96.	4.5	50
28	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probe Solar Orbiter Radial Alignment. <i>Astrophysical Journal Letters</i> , 2021, 912, L21.	8.3	49
29	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at 35.7 $R_{\odot}$ Radii. <i>Astrophysical Journal Letters</i> , 2020, 891, L20.	8.3	46
30	Exploring Solar Wind Origins and Connecting Plasma Flows from the Parker Solar Probe to 1 au: Nonspherical Source Surface and Alfvénic Fluctuations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 54.	7.7	46
31	Density Fluctuations in the Solar Wind Based on Type III Radio Bursts Observed by Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 57.	7.7	45
32	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 36.	7.7	43
33	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. <i>Astrophysical Journal Letters</i> , 2020, 894, L19.	8.3	39
34	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion: A Partial-variance-of-increments Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 31.	7.7	37
35	The Radial Dependence of Proton-scale Magnetic Spectral Break in Slow Solar Wind during PSP Encounter 2. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 55.	7.7	36
36	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at $\approx 0.25$ au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 29.	7.7	35

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37	Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 49.	7.7	35
38	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 63.	7.7	34
39	Coronal Electron Temperature Inferred from the Strahl Electrons in the Inner Heliosphere: Parker Solar Probe and Helios Observations. <i>Astrophysical Journal</i> , 2020, 892, 88.	4.5	34
40	Electron heat flux in the near-Sun environment. <i>Astronomy and Astrophysics</i> , 2021, 650, A15.	5.1	32
41	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
42	Plasma Waves near the Electron Cyclotron Frequency in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 21.	7.7	30
43	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. <i>Physical Review Letters</i> , 2020, 125, 025102.	7.8	29
44	Source and Propagation of a Streamer Blowout Coronal Mass Ejection Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 69.	7.7	29
45	Alfvénic versus non-Alfvénic turbulence in the inner heliosphere as observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A21.	5.1	29
46	Sub-Alfvénic Solar Wind Observed by the Parker Solar Probe: Characterization of Turbulence, Anisotropy, Intermittency, and Switchback. <i>Astrophysical Journal Letters</i> , 2022, 926, L1.	8.3	28
47	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	7.7	27
48	Direct evidence for magnetic reconnection at the boundaries of magnetic switchbacks with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A5.	5.1	27
49	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	7.7	26
50	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter's Parker Solar Probe Quadrature. <i>Astrophysical Journal Letters</i> , 2021, 920, L14.	8.3	25
51	The Enhancement of Proton Stochastic Heating in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 30.	7.7	23
52	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2021, 650, A13.	5.1	23
53	Inferred Linear Stability of Parker Solar Probe Observations Using One- and Two-component Proton Distributions. <i>Astrophysical Journal</i> , 2021, 909, 7.	4.5	22
54	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A9.	5.1	22

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55	Small-scale Magnetic Flux Ropes in the First Two Parker Solar Probe Encounters. <i>Astrophysical Journal</i> , 2020, 903, 76.	4.5	22
56	CME-associated Energetic Ions at 0.23 au: Consideration of the Auroral Pressure Cooker Mechanism Operating in the Low Corona as a Possible Energization Process. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 59.	7.7	21
57	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	7.7	21
58	Parker Solar Probe Evidence for the Absence of Whistlers Close to the Sun to Scatter Strahl and to Regulate Heat Flux. <i>Astrophysical Journal Letters</i> , 2022, 924, L33.	8.3	19
59	Evidence of Subprotonâ€Scale Magnetic Holes in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090329.	4.0	18
60	MHD Mode Composition in the Inner Heliosphere from the Parker Solar Probe's First Perihelion. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 71.	7.7	17
61	Plasma Double Layers at the Boundary Between Venus and the Solar Wind. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090115.	4.0	16
62	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREOâ€A. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	4.0	16
63	Strong Perpendicular Velocity-space Diffusion in Proton Beams Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2022, 924, 112.	4.5	16
64	Improving the AlfvÃ©n Wave Solar Atmosphere Model Based on Parker Solar Probe Data. <i>Astrophysical Journal</i> , 2022, 925, 146.	4.5	16
65	Parker Solar Probe Observations of Solar Wind Energetic Proton Beams Produced by Magnetic Reconnection in the Nearâ€Sun Heliospheric Current Sheet. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	15
66	Radial Evolution of Thermal and Suprathermal Electron Populations in the Slow Solar Wind from 0.13 to 0.5 au: Parker Solar Probe Observations. <i>Astrophysical Journal</i> , 2022, 931, 118.	4.5	15
67	The Streamer Blowout Origin of a Flux Rope and Energetic Particle Event Observed by Parker Solar Probe at 0.5 au. <i>Astrophysical Journal</i> , 2020, 897, 134.	4.5	14
68	Predicting the Solar Wind at the Parker Solar Probe Using an Empirically Driven MHD Model. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 40.	7.7	14
69	The Sunward Electron Deficit: A Telltale Sign of the Sun's Electric Potential. <i>Astrophysical Journal</i> , 2021, 916, 16.	4.5	14
70	Ambipolar Electric Field and Potential in the Solar Wind Estimated from Electron Velocity Distribution Functions. <i>Astrophysical Journal</i> , 2021, 921, 83.	4.5	14
71	Wave-particle energy transfer directly observed in an ion cyclotron wave. <i>Astronomy and Astrophysics</i> , 2021, 650, A10.	5.1	12
72	Electron Bernstein waves and narrowband plasma waves near the electron cyclotron frequency in the near-Sun solar wind. <i>Astronomy and Astrophysics</i> , 2021, 650, A97.	5.1	12

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73	The contribution of alpha particles to the solar wind angular momentum flux in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, A17.	5.1	11
74	Kineticâ€Scale Turbulence in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090783.	4.0	11
75	The Solar Wind Angular Momentum Flux as Observed by Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2020, 902, L4.	8.3	11
76	Magnetic increases with central current sheets: observations with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A11.	5.1	8
77	Density and Velocity Fluctuations of Alpha Particles in Magnetic Switchbacks. <i>Astrophysical Journal</i> , 2022, 933, 43.	4.5	6
78	Correcting Parker Solar Probe Electron Measurements for Spacecraft Magnetic and Electric Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7369-7384.	2.4	3
79	PSP/ISÅ™IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , 2022, 925, 212.	4.5	3
80	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