Marc P Pulupa

List of Publications by Year
in descending order

135	6,635	61984	71685
papers	citations	43 h-index	76 g-index

145	145	145	2431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
2	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	27.8	401
3	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
4	S/WAVES: The Radio and Plasma Wave Investigation onÂtheÂSTEREO Mission. Space Science Reviews, 2008, 136, 487-528.	8.1	313
5	AlfvÃ©nic velocity spikes and rotational flows in the near-Sun solar wind. Nature, 2019, 576, 228-231.	27.8	311
6	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 53.	7.7	166
7	Switchbacks in the Near-Sun Magnetic Field: Long Memory and Impact on the Turbulence Cascade. Astrophysical Journal, Supplement Series, 2020, 246, 39.	7.7	152
8	Sharp AlfvÃ©nic Impulses in the Near-Sun Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 45.	7.7	115
9	QUIET-TIME INTERPLANETARY â^¼42-20 keV SUPERHALO ELECTRONS AT SOLAR MINIMUM. Astrophysical Journal Letters, 2012, 753, L23.	8.3	114
10	The Electric Antennas for the STEREO/WAVES Experiment. Space Science Reviews, 2008, 136, 529-547.	8.1	107
11	First In Situ Measurements of Electron Density and Temperature from Quasi-thermal Noise Spectroscopy with Parker Solar Probe/FIELDS. Astrophysical Journal, Supplement Series, 2020, 246, 44.	7.7	106
12	Parker Solar Probe Enters the Magnetically Dominated Solar Corona. Physical Review Letters, 2021, 127, 255101.	7.8	104
13	Probing the energetic particle environment near the Sun. Nature, 2019, 576, 223-227.	27.8	103
14	Magnetic Connectivity of the Ecliptic Plane within 0.5 au: Potential Field Source Surface Modeling of the First Parker Solar Probe Encounter. Astrophysical Journal, Supplement Series, 2020, 246, 23.	7.7	100
15	Electrons in the Young Solar Wind: First Results from the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 22.	7.7	99
16	The Statistical Properties of Solar Wind Temperature Parameters Near 1 au. Astrophysical Journal, Supplement Series, 2018, 236, 41.	7.7	94
17	Magnetic Field Kinks and Folds in the Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 32.	7.7	86
18	Switchbacks in the Solar Magnetic Field: Their Evolution, Their Content, and Their Effects on the Plasma. Astrophysical Journal, Supplement Series, 2020, 246, 68.	7.7	83

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19	ELECTRON HEAT CONDUCTION IN THE SOLAR WIND: TRANSITION FROM SPITZER-HÃ„RM TO THE COLLISIONLESS LIMIT. Astrophysical Journal Letters, 2013, 769, L22.	8.3	81
20	Switchbacks as signatures of magnetic flux ropes generated by interchange reconnection in the corona. Astronomy and Astrophysics, 2021, 650, A2.	5.1	80
21	Observations of electromagnetic whistler precursors at supercritical interplanetary shocks. Geophysical Research Letters, 2012, 39, .	4.0	79
22	The Solar Probe Plus Radio Frequency Spectrometer: Measurement requirements, analog design, and digital signal processing. Journal of Geophysical Research: Space Physics, 2017, 122, 2836-2854.	2.4	74
23	Electromagnetic waves and electron anisotropies downstream of supercritical interplanetary shocks. Journal of Geophysical Research: Space Physics, 2013, 118, 5-16.	2.4	67
24	Ion-scale Electromagnetic Waves in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 66.	7.7	67
25	The Role of AlfvÃ©n Wave Dynamics on the Large-scale Properties of the Solar Wind: Comparing an MHD Simulation with Parker Solar Probe E1 Data. Astrophysical Journal, Supplement Series, 2020, 246, 24.	7.7	66
26	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. Astrophysical Journal, Supplement Series, 2020, 246, 34.	7.7	65
27	Parker Solar Probe Observations of Proton Beams Simultaneous with Ion-scale Waves. Astrophysical Journal, Supplement Series, 2020, 248, 5.	7.7	62
28	Cross Helicity Reversals in Magnetic Switchbacks. Astrophysical Journal, Supplement Series, 2020, 246, 67.	7.7	61
29	Shocklets, SLAMS, and fieldâ€aligned ion beams in the terrestrial foreshock. Journal of Geophysical Research: Space Physics, 2013, 118, 957-966.	2.4	60
30	Electron Energy Partition across Interplanetary Shocks. I. Methodology and Data Product. Astrophysical Journal, Supplement Series, 2019, 243, 8.	7.7	57
31	Identification of Magnetic Flux Ropes from Parker Solar Probe Observations during the First Encounter. Astrophysical Journal, Supplement Series, 2020, 246, 26.	7.7	57
32	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. Astrophysical Journal, Supplement Series, 2020, 246, 70.	7.7	56
33	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 48.	7.7	56
34	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. Astrophysical Journal, Supplement Series, 2020, 246, 62.	7.7	55
35	Self-induced Scattering of Strahl Electrons in the Solar Wind. Astrophysical Journal, 2019, 886, 136.	4.5	54
36	Whistler Wave Generation by Halo Electrons in the Solar Wind. Astrophysical Journal Letters, 2019, 870, L6.	8.3	53

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37	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 37.	7.7	52
38	Measures of Scale-dependent AlfvÃ©nicity in the First PSP Solar Encounter. Astrophysical Journal, Supplement Series, 2020, 246, 58.	7.7	51
39	The Heliospheric Current Sheet in the Inner Heliosphere Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 47.	7.7	50
40	Characteristic Scales of Magnetic Switchback Patches Near the Sun and Their Possible Association With Solar Supergranulation and Granulation. Astrophysical Journal, 2021, 919, 96.	4.5	50
41	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probeâ€“Solar Orbiter Radial Alignment. Astrophysical Journal Letters, 2021, 912, L21.	8.3	49
42	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at 35.7 R_{âŠ™} Radii. Astrophysical Journal Letters, 2020, 891, L20.	8.3	46
43	Exploring Solar Wind Origins and Connecting Plasma Flows from the Parker Solar Probe to 1 au: Nonspherical Source Surface and AlfvÃ©nic Fluctuations. Astrophysical Journal, Supplement Series, 2020, 246, 54.	7.7	46
44	Density Fluctuations in the Solar Wind Based on Type III Radio Bursts Observed by Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 57.	7.7	45
45	Structure on Interplanetary Shock Fronts: Type II Radio Burst Source Regions. Astrophysical Journal, 2008, 676, 1330-1337.	4.5	44
46	Localized Magnetic-field Structures and Their Boundaries in the Near-Sun Solar Wind from Parker Solar Probe Measurements. Astrophysical Journal, 2020, 893, 93.	4.5	44
47	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. Astrophysical Journal, Supplement Series, 2020, 246, 36.	7.7	43
48	Electron Energy Partition across Interplanetary Shocks. II. Statistics. Astrophysical Journal, Supplement Series, 2019, 245, 24.	7.7	40
49	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probeâ€™s First Orbit. Astrophysical Journal Letters, 2020, 894, L19.	8.3	39
50	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probeâ€™s First Perihelionâ€”A Partial-variance-of-increments Analysis. Astrophysical Journal, Supplement Series, 2020, 246, 31.	7.7	37
51	Switchbacks: statistical properties and deviations from AlfvÃ©nicity. Astronomy and Astrophysics, 2021, 650, A3.	5.1	37
52	The Radial Dependence of Proton-scale Magnetic Spectral Break in Slow Solar Wind during PSP Encounter 2. Astrophysical Journal, Supplement Series, 2020, 246, 55.	7.7	36
53	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at â^¼0.25 au. Astrophysical Journal, Supplement Series, 2020, 246, 29.	7.7	35
54	Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 49.	7.7	35

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55	Detection of small magnetic flux ropes from the third and fourth Parker Solar Probe encounters. Astronomy and Astrophysics, 2021, 650, A12.	5.1	35
56	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. Astrophysical Journal, Supplement Series, 2020, 246, 63.	7.7	34
57	Coronal Electron Temperature Inferred from the Strahl Electrons in the Inner Heliosphere: Parker Solar Probe and Helios Observations. Astrophysical Journal, 2020, 892, 88.	4.5	34
58	Statistical analysis of orientation, shape, and size of solar wind switchbacks. Astronomy and Astrophysics, 2021, 650, A1.	5.1	34
59	Langmuir waves upstream of interplanetary shocks: Dependence on shock and plasma parameters. Journal of Geophysical Research, 2010, 115, .	3.3	31
60	A Merged Searchâ€€Coil and Fluxgate Magnetometer Data Product for Parker Solar Probe FIELDS. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027813.	2.4	31
61	Energetic Particle Increases Associated with Stream Interaction Regions. Astrophysical Journal, Supplement Series, 2020, 246, 20.	7.7	31
62	Plasma Waves near the Electron Cyclotron Frequency in the Near-Sun Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 21.	7.7	30
63	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. Physical Review Letters, 2020, 125, 025102.	7.8	29
64	Source and Propagation of a Streamer Blowout Coronal Mass Ejection Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 69.	7.7	29
65	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probeâ€™s First Two Orbits. Astrophysical Journal, Supplement Series, 2020, 246, 56.	7.7	29
66	AlfvÃ©nic versus non-AlfvÃ©nic turbulence in the inner heliosphere as observed by Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A21.	5.1	29
67	Spinâ€modulated spacecraft floating potential: Observations and effects on electron moments. Journal of Geophysical Research: Space Physics, 2014, 119, 647-657.	2.4	28
68	Sub-AlfvÃ©nic Solar Wind Observed by the Parker Solar Probe: Characterization of Turbulence, Anisotropy, Intermittency, and Switchback. Astrophysical Journal Letters, 2022, 926, L1.	8.3	28
69	Rapid fluctuations of stratospheric electric field following a solar energetic particle event. Geophysical Research Letters, 2006, 33, .	4.0	27
70	³He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. Astrophysical Journal, Supplement Series, 2020, 246, 42.	7.7	27
71	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 35.	7.7	27
72	Direct evidence for magnetic reconnection at the boundaries of magnetic switchbacks with Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A5.	5.1	27

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73	Examining Dust Directionality with the Parker Solar Probe FIELDS Instrument. Astrophysical Journal, Supplement Series, 2020, 246, 51.	7.7	26
74	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. Astrophysical Journal, Supplement Series, 2020, 246, 46.	7.7	26
75	Measurement of the open magnetic flux in the inner heliosphere down to 0.13 AU. Astronomy and Astrophysics, 2021, 650, A18.	5.1	26
76	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 61.	7.7	25
77	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiterâ€“Parker Solar Probe Quadrature. Astrophysical Journal Letters, 2021, 920, L14.	8.3	25
78	Parker Solar Probe Evidence for Scattering of Electrons in the Young Solar Wind by Narrowband Whistler-mode Waves. Astrophysical Journal Letters, 2021, 911, L29.	8.3	24
79	The Enhancement of Proton Stochastic Heating in the Near-Sun Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 30.	7.7	23
80	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. Astronomy and Astrophysics, 2021, 650, A13.	5.1	23
81	The Electromagnetic Signature of Outward Propagating Ion-scale Waves. Astrophysical Journal, 2020, 899, 74.	4.5	23
82	In Situ Observations of Interplanetary Dust Variability in the Inner Heliosphere. Astrophysical Journal, 2020, 892, 115.	4.5	22
83	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A9.	5.1	22
84	Small-scale Magnetic Flux Ropes in the First Two Parker Solar Probe Encounters. Astrophysical Journal, 2020, 903, 76.	4.5	22
85	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. Astrophysical Journal, Supplement Series, 2020, 246, 59.	7.7	21
86	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 33.	7.7	21
87	Electron Energy Partition across Interplanetary Shocks. III. Analysis. Astrophysical Journal, 2020, 893, 22.	4.5	21
88	Narrowband oblique whistler-mode waves: comparing properties observed by Parker Solar Probe at <0.3 AU and STEREO at 1 AU. Astronomy and Astrophysics, 2021, 650, A8.	5.1	20
89	Parker Solar Probe Evidence for the Absence of Whistlers Close to the Sun to Scatter Strahl and to Regulate Heat Flux. Astrophysical Journal Letters, 2022, 924, L33.	8.3	19
90	Evidence of Subprotonâ€Scale Magnetic Holes in the Venusian Magnetosheath. Geophysical Research Letters, 2021, 48, e2020GL090329.	4.0	18

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91	Self-Similar Theory of Thermal Conduction and Application to the Solar Wind. Physical Review Letters, 2015, 114, 245003.	7.8	17
92	MHD Mode Composition in the Inner Heliosphere from the Parker Solar Probeâ€™s First Perihelion. Astrophysical Journal, Supplement Series, 2020, 246, 71.	7.7	17
93	The active region source of a type III radio storm observed by Parker Solar Probe during encounter 2. Astronomy and Astrophysics, 2021, 650, A7.	5.1	17
94	Plasma Double Layers at the Boundary Between Venus and the Solar Wind. Geophysical Research Letters, 2020, 47, e2020GL090115.	4.0	16
95	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREOâ€A. Geophysical Research Letters, 2021, 48, e2020GL091376.	4.0	16
96	Improving the AlfvÃ©n Wave Solar Atmosphere Model Based on Parker Solar Probe Data. Astrophysical Journal, 2022, 925, 146.	4.5	16
97	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A24.	5.1	15
98	PSP/ISâŠ™IS observations of the 29 November 2020 solar energetic particle event. Astronomy and Astrophysics, 2021, 656, A29.	5.1	15
99	Parker Solar Probe Observations of Solar Wind Energetic Proton Beams Produced by Magnetic Reconnection in the Nearâ€Sun Heliospheric Current Sheet. Geophysical Research Letters, 2022, 49, .	4.0	15
100	Predicting the Solar Wind at the Parker Solar Probe Using an Empirically Driven MHD Model. Astrophysical Journal, Supplement Series, 2020, 246, 40.	7.7	14
101	Dust Directionality and an Anomalous Interplanetary Dust Population Detected by the Parker Solar Probe. Planetary Science Journal, 2021, 2, 186.	3.6	14
102	Ambipolar Electric Field and Potential in the Solar Wind Estimated from Electron Velocity Distribution Functions. Astrophysical Journal, 2021, 921, 83.	4.5	14
103	Direct First Parker Solar Probe Observation of the Interaction of Two Successive Interplanetary Coronal Mass Ejections in 2020 November. Astrophysical Journal, 2022, 930, 88.	4.5	14
104	Periodicities in an active region correlated with Type III radio bursts observed by Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A6.	5.1	13
105	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. Astronomy and Astrophysics, 2021, 650, A23.	5.1	13
106	Magnetospheric electric field variations caused by storm-time shock fronts. Advances in Space Research, 2008, 42, 181-191.	2.6	12
107	CORE ELECTRON HEATING IN SOLAR WIND RECONNECTION EXHAUSTS. Astrophysical Journal Letters, 2014, 791, L17.	8.3	12
108	Quasiâ€thermal noise measurements on STEREO: Kinetic temperature deduction using electron shot noise model. Journal of Geophysical Research: Space Physics, 2016, 121, 129-139.	2.4	12

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109	Wave-particle energy transfer directly observed in an ion cyclotron wave. Astronomy and Astrophysics, 2021, 650, A10.	5.1	12
110	Electron Bernstein waves and narrowband plasma waves near the electron cyclotron frequency in the near-Sun solar wind. Astronomy and Astrophysics, 2021, 650, A97.	5.1	12
111	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. Astronomy and Astrophysics, 2021, 650, L4.	5.1	12
112	Solar wind energy flux observations in the inner heliosphere: first results from Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A14.	5.1	12
113	Simulations of radio-wave anisotropic scattering to interpret type III radio burst data from Solar Orbiter, Parker Solar Probe, STEREO, and Wind. Astronomy and Astrophysics, 2021, 656, A34.	5.1	12
114	The contribution of alpha particles to the solar wind angular momentum flux in the inner heliosphere. Astronomy and Astrophysics, 2021, 650, A17.	5.1	11
115	Kineticâ€Scale Turbulence in the Venusian Magnetosheath. Geophysical Research Letters, 2021, 48, e2020GL090783.	4.0	11
116	Flux Rope Merging and the Structure of Switchbacks in the Solar Wind. Astrophysical Journal, 2022, 925, 213.	4.5	11
117	Time Domain Structures and Dust in the Solar Vicinity: Parker Solar Probe Observations. Astrophysical Journal, Supplement Series, 2020, 246, 50.	7.7	10
118	Kinetic-scale Spectral Features of Cross Helicity and Residual Energy in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 52.	7.7	10
119	Origin of the Weak Plasma Emission Line Detected by Voyager 1 in the Interstellar Medium: Evidence for Suprathermal Electrons. Astrophysical Journal, 2021, 921, 62.	4.5	10
120	Small Electron Events Observed by Parker Solar Probe/ISâŠ™IS during Encounter 2. Astrophysical Journal, 2020, 902, 20.	4.5	9
121	First Results From the SCM Searchâ€Coil Magnetometer on Parker Solar Probe. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	9
122	Magnetic increases with central current sheets: observations with Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A11.	5.1	8
123	STEREO-Wind Radio Positioning of an Unusually Slow Drifting Event. Solar Physics, 2015, 290, 891-901.	2.5	7
124	An asymmetry of the electron foreshock due to the strahl. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	4
125	The Encounter of the Parker Solar Probe and a Comet-like Object Near the Sun: Model Predictions and Measurements. Astrophysical Journal, 2021, 910, 7.	4.5	4
126	Nonâ€Detection of Lightning During the Second Parker Solar Probe Venus Gravity Assist. Geophysical Research Letters, 2021, 48, e2020GL091751.	4.0	4

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127	Langmuir-Slow Extraordinary Mode Magnetic Signature Observations with Parker Solar Probe. Astrophysical Journal, 2022, 927, 95.	4.5	4
128	Quiet-time solar wind superhalo electrons at solar minimum. , 2013, , .		3
129	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. Astrophysical Journal, 2022, 927, 62.	4.5	3
130	Parametric decay of currentâ€driven Langmuir waves in plateau plasmas: Relevance to solar wind and foreshock events. Journal of Geophysical Research: Space Physics, 2017, 122, 7005-7020.	2.4	2
131	S/WAVES: The Radio and Plasma Wave Investigation onÂtheÂSTEREO Mission. , 2008, , 487-528.		2
132	The Electric Antennas for the STEREO/WAVES Experiment. , 2008, , 529-547.		2
133	Plasma Parameters From Quasiâ€Thermal Noise Observed by Parker Solar Probe: A New Model for the Antenna Response. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
134	Discrepancy between the Low-frequency Cutoffs of Type III Radio Bursts Based on Simultaneous Observations by WIND and PSP. Astrophysical Journal Letters, 2022, 932, L26.	8.3	2
135	An In Situ Interplanetary â€œU-burstâ€ Observation and Results. Astrophysical Journal, 2020, 897, 170.	4.5	1