Adam Szabo

List of Publications by Year
in descending order

84 papers	6,702 citations	66343 42 h-index	62596 80 g-index
86 all docs	86 docs citations	86 times ranked	2806 citing authors

#	Article	IF	Citations
1	The Solar Probe Plus Mission: Humanityâ€™s First Visit to Our Star. Space Science Reviews, 2016, 204, 7-48.	8.1	821
2	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
3	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 131-186.	8.1	439
4	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	27.8	401
5	AlfvÃ©nic velocity spikes and rotational flows in the near-Sun solar wind. Nature, 2019, 576, 228-231.	27.8	311
6	Magnetohydrodynamic modeling of the solar corona during Whole Sun Month. Journal of Geophysical Research, 1999, 104, 9809-9830.	3.3	282
7	A magnetic cloud containing prominence material: January 1997. Journal of Geophysical Research, 1998, 103, 277-285.	3.3	251
8	The STEREO/IMPACT Magnetic Field Experiment. Space Science Reviews, 2008, 136, 203-226.	8.1	209
9	A summary of WIND magnetic clouds for years 1995-2003: model-fitted parameters, associated errors and classifications. Annales Geophysicae, 2006, 24, 215-245.	1.6	171
10	The Wind magnetic cloud and events of October 18â€“20, 1995: Interplanetary properties and as triggers for geomagnetic activity. Journal of Geophysical Research, 1997, 102, 14049-14063.	3.3	140
11	Physics-based tests to identify the accuracy of solar wind ion measurements: A case study with the Wind Faraday Cups. Journal of Geophysical Research, 2006, 111, .	3.3	115
12	Understanding the Internal Magnetic Field Configurations of ICMEs Using More than 20 Years of Wind Observations. Solar Physics, 2018, 293, 1.	2.5	115
13	Timing accuracy for the simple planar propagation of magnetic field structures in the solar wind. Geophysical Research Letters, 1998, 25, 2509-2512.	4.0	107
14	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. Physical Review Letters, 2021, 127, 255101.	7.8	104
15	Wind observations of foreshock cavities: A case study. Journal of Geophysical Research, 2002, 107, SMP 4-1.	3.3	103
16	THE SOLAR ORIGIN OF SMALL INTERPLANETARY TRANSIENTS. Astrophysical Journal, 2011, 734, 7.	4.5	89
17	Radio-rich solar eruptive events. Geophysical Research Letters, 2000, 27, 1427-1430.	4.0	87
18	Remote and in situ observations of an unusual Earthâ€directed coronal mass ejection from multiple viewpoints. Journal of Geophysical Research, 2012, 117, .	3.3	86

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19	Prevalence of magnetic reconnection at small field shear angles in the solar wind. Geophysical Research Letters, 2007, 34, .	4.0	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	Three-dimensional position and shape of the bow shock and their variation with upstream Mach numbers and interplanetary magnetic field orientation. Journal of Geophysical Research, 2005, 110, .	3.3	79
22	Observations of electromagnetic whistler precursors at supercritical interplanetary shocks. Geophysical Research Letters, 2012, 39, .	4.0	79
23	Largeâ€amplitude electrostatic waves observed at a supercritical interplanetary shock. Journal of Geophysical Research, 2010, 115, .	3.3	77
24	Bifurcated current sheets produced by magnetic reconnection in the solar wind. Journal of Geophysical Research, 2008, 113, .	3.3	76
25	Lowâ€frequency whistler waves and shocklets observed at quasiâ€perpendicular interplanetary shocks. Journal of Geophysical Research, 2009, 114, .	3.3	76
26	An improved solution to the â€œRankine-Hugoniotâ€• problem. Journal of Geophysical Research, 1994, 99, 14737.	3.3	72
27	Coincident 1.3-year periodicities in theapgeomagnetic index and the solar wind. Geophysical Research Letters, 1995, 22, 3001-3004.	4.0	70
28	Magnetic field and particle measurements made by Voyager 2 at and near the heliopause. Nature Astronomy, 2019, 3, 1007-1012.	10.1	69
29	Electromagnetic waves and electron anisotropies downstream of supercritical interplanetary shocks. Journal of Geophysical Research: Space Physics, 2013, 118, 5-16.	2.4	67
30	A CIRCULAR-CYLINDRICAL FLUX-ROPE ANALYTICAL MODEL FOR MAGNETIC CLOUDS. Astrophysical Journal, 2016, 823, 27.	4.5	67
31	Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 1. Initial architecture. Space Weather, 2015, 13, 374-385.	3.7	65
32	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. Astrophysical Journal, Supplement Series, 2020, 246, 34.	7.7	65
33	Profile of an Average Magnetic Cloud at 1 au for the Quiet Solar Phase: Wind Observations. Solar Physics, 2003, 212, 425-444.	2.5	64
34	Shocklets, SLAMS, and fieldâ€aligned ion beams in the terrestrial foreshock. Journal of Geophysical Research: Space Physics, 2013, 118, 957-966.	2.4	60
35	Earth's bow shock and magnetopause in the case of a field-aligned upstream flow: Observation and model comparison. Journal of Geophysical Research, 2003, 108, .	3.3	52
36	Revisiting the structure of lowâ€Mach number, lowâ€beta, quasiâ€perpendicular shocks. Journal of Geophysical Research: Space Physics, 2017, 122, 9115-9133.	2.4	52

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37	A Quarter Century of<i>Wind</i>Spacecraft Discoveries. Reviews of Geophysics, 2021, 59, e2020RG000714.	23.0	52
38	The Heliospheric Current Sheet in the Inner Heliosphere Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 47.	7.7	50
39	The subsolar magnetosheath and magnetopause for high solar wind ram pressure: WIND observations. Geophysical Research Letters, 1996, 23, 1279-1282.	4.0	48
40	INNER HELIOSPHERIC EVOLUTION OF A â€œSTEALTHâ€•CME DERIVED FROM MULTI-VIEW IMAGING AND MULTIPOINT IN SITU OBSERVATIONS. I. PROPAGATION TO 1 AU. Astrophysical Journal, 2013, 779, 55.	4.5	48
41	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
42	Unraveling the Internal Magnetic Field Structure of the Earth-directed Interplanetary Coronal Mass Ejections During 1995â€‰â€“â€‰2015. Solar Physics, 2019, 294, 1.	2.5	44
43	Solar energetic electron probes of magnetic cloud field line lengths. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42
44	Magnetic Clouds at/near the 2007â€‰â€“â€‰2009 Solar Minimum: Frequency of Occurrence and Some Unusual Properties. Solar Physics, 2011, 274, 345-360.	2.5	42
45	Solar wind preconditioning in the flank foreshock: IMP 8 observations. Journal of Geophysical Research, 2001, 106, 21675-21688.	3.3	40
46	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probeâ€™s First Orbit. Astrophysical Journal Letters, 2020, 894, L19.	8.3	39
47	Interplanetary Type III Bursts and Electron Density Fluctuations in the Solar Wind. Astrophysical Journal, 2018, 857, 82.	4.5	38
48	A comparison of IMP 8 observed bow shock positions with model predictions. Journal of Geophysical Research, 2003, 108, .	3.3	36
49	Modified â€œRankineâ€Hugoniotâ€•shock fitting technique: Simultaneous solution for shock normal and speed. Journal of Geophysical Research, 2008, 113, .	3.3	35
50	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at âˆ¼0.25 au. Astrophysical Journal, Supplement Series, 2020, 246, 29.	7.7	35
51	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
52	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
53	Near-simultaneous bow shock crossings by WIND and IMP 8 on December 1, 1994. Geophysical Research Letters, 1996, 23, 1207-1210.	4.0	29
54	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

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55	Large-scale properties and solar connection of the heliospheric current and plasma sheets: WIND observations. Geophysical Research Letters, 1996, 23, 1199-1202.	4.0	28
56	Wind Magnetic Clouds for 2010â€‰â€“â€‰2012: Model Parameter Fittings, Associated Shock Waves, and Comparisons to Earlier Periods. Solar Physics, 2015, 290, 2265-2290.	2.5	28
57	Magnetic Field and Plasma Density Observations of a Pressure Front by Voyager 1 during 2020 in the Very Local Interstellar Medium. Astrophysical Journal, 2021, 911, 61.	4.5	24
58	A case study of oppositely propagating AlfvÃ©nic fluctuations in the solar wind and magnetosheath. Geophysical Research Letters, 1997, 24, 3133-3136.	4.0	22
59	Analysis of Magnetotail Flux Ropes with Strong Core Fields: ISEE 3 Observations. Journal of Geomagnetism and Geoelectricity, 1996, 48, 589-601.	0.9	22
60	Fast and Slow Flows in the Solar Wind Near the Ecliptic at 1 AU?. Space Science Reviews, 1999, 87, 137-140.	8.1	20
61	A two-stream, four-sector, recurrence pattern: Implications from WIND for the 22-year geomagnetic activity cycle. Geophysical Research Letters, 1996, 23, 1275-1278.	4.0	19
62	Asymmetric shear flow effects on magnetic field configuration within oppositely directed solar wind reconnection exhausts. Journal of Geophysical Research, 2009, 114, .	3.3	19
63	Voyager 1 and 2 Observations of a Change in the Nature of Magnetic Fluctuations in the VLISM with Increasing Distance from the Heliopause. Astronomical Journal, 2020, 160, 40.	4.7	17
64	Magnetic cloud-bow shock interaction: WIND and IMP-8 observations. Geophysical Research Letters, 1996, 23, 1195-1198.	4.0	15
65	Bow shock's geometry at the magnetospheric flanks. Journal of Geophysical Research, 2004, 109, .	3.3	15
66	Multispacecraft observations of interplanetary shock shapes on the scales of the Earth's magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	15
67	Statistical Survey of Coronal Mass Ejections and Interplanetary Type II Bursts. Astrophysical Journal, 2019, 882, 92.	4.5	14
68	The Streamer Blowout Origin of a Flux Rope and Energetic Particle Event Observed by Parker Solar Probe at 0.5 au. Astrophysical Journal, 2020, 897, 134.	4.5	14
69	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
70	Comparative Analysis of the 2020 November 29 Solar Energetic Particle Event Observed by Parker Solar Probe. Astrophysical Journal, 2021, 920, 123.	4.5	12
71	Wind Magnetic Clouds for the Period 2013â€‰â€“â€‰2015: Model Fitting, Types, Associated Shock Waves, and Comparisons to Other Periods. Solar Physics, 2018, 293, 1.	2.5	11
72	Magnetic Field Observations in the Very Local Interstellar Medium by Voyagers 1 and 2. Astrophysical Journal, 2022, 932, 59.	4.5	11

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73	Magnetic field turbulence spectra observed by the wind spacecraft. AIP Conference Proceedings, 2013, , .	0.4	10
74	The heliospheric current sheet on small scale. , 1999, , .		8
75	Navigating through SPASE to heliospheric and magnetospheric data. Earth Science Informatics, 2008, 1, 35-42.	3.2	8
76	Magnetic Fields Observed by Voyager 2 in the Heliosheath. Astrophysical Journal, 2021, 906, 119.	4.5	8
77	The Transition of Interplanetary Shocks through the Magnetosheath. AIP Conference Proceedings, 2003, , .	0.4	7
78	Understanding the Role of <i>Î±</i> Particles in Oblique Heliospheric Shock Oscillations. Journal of Geophysical Research: Space Physics, 2019, 124, 2393-2405.	2.4	7
79	Intermittency and q-Gaussian Distributions in the Magnetic Field of the Very Local Interstellar Medium (VLISM) Observed by Voyager 1 and Voyager 2. Astrophysical Journal Letters, 2020, 901, L2.	8.3	6
80	Model Fitting of Wind Magnetic Clouds for the Period 2004â€‰â€“â€‰2006. Solar Physics, 2020, 295, 1.	2.5	5
81	Crossing the Heliospheric Current Sheet. , 1999, , 231-237.		2
82	Oblique High Mach Number Heliospheric Shocks: The Role of Î± Particles. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028962.	2.4	1
83	High time resolution observations of magnetospheric disturbances during auroral activity. Geophysical Monograph Series, 2003, , 45-54.	0.1	0
84	Solar Wind Model Supported by Parker Solar Probe Observations During Faint Venusian Auroral Emission. Astrophysical Journal, 2022, 929, 45.	4.5	0