

# Samuel Badman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5336786/publications.pdf>

Version: 2024-02-01

21  
papers

843  
citations

567281

15  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

701  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	7.8	104
2	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
3	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
4	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
5	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
6	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
7	Exploring Solar Wind Origins and Connecting Plasma Flows from the <i>Parker Solar Probe</i> to 1 au: Nonspherical Source Surface and Alfvénic Fluctuations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 54.	7.7	46
8	pfsspy: A Python package for potential field source surface modelling. <i>Journal of Open Source Software</i> , 2020, 5, 2732.	4.6	45
9	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
10	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
11	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
12	Statistical analysis of orientation, shape, and size of solar wind switchbacks. <i>Astronomy and Astrophysics</i> , 2021, 650, A1.	5.1	34
13	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
14	Density Fluctuations in the Solar Wind Driven by Alfvén Wave Parametric Decay. <i>Astrophysical Journal Letters</i> , 2018, 854, L33.	8.3	28
15	Measurement of the open magnetic flux in the inner heliosphere down to 0.13 AU. <i>Astronomy and Astrophysics</i> , 2021, 650, A18.	5.1	26
16	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
17	Periodicities in an active region correlated with Type III radio bursts observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A6.	5.1	13
18	Constraining Global Coronal Models with Multiple Independent Observables. <i>Astrophysical Journal</i> , 2022, 932, 135.	4.5	12

#	ARTICLE	IF	CITATIONS
19	Plasma properties, switchback patches, and low $\langle i \rangle_{\pm}$ -particle abundance in slow Alfvénic coronal hole wind at 0.13 au. Monthly Notices of the Royal Astronomical Society, 2021, 508, 236-244.	4.4	9
20	Sensitivity of solar wind mass flux to coronal temperature. Astronomy and Astrophysics, 2021, 650, L2.	5.1	4
21	Searching for a Solar Source of Magnetic-Field Switchbacks in Parker Solar Probe's First Encounter. Solar Physics, 2022, 297, .	2.5	2