

# Stepan Stverak

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,546  
citations

567281

15  
h-index

414414

32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radial evolution of nonthermal electron populations in the low-latitude solar wind: Helios, Cluster, and Ulysses Observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	234
2	Electron temperature anisotropy constraints in the solar wind. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	219
3	The ISL Langmuir probe experiment processing onboard DEMETER: Scientific objectives, description and first results. <i>Planetary and Space Science</i> , 2006, 54, 472-486.	1.7	199
4	Proton thermal energetics in the solar wind: Helios reloaded. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1351-1365.	2.4	97
5	Heating and cooling of protons in the fast solar wind between 0.3 and 1 AU: Helios revisited. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	92
6	The Electron Temperature and Anisotropy in the Solar Wind. Comparison of the Core and Halo Populations. <i>Solar Physics</i> , 2016, 291, 2165-2179.	2.5	81
7	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A12.	5.1	80
8	The DEMETER Science Mission Centre. <i>Planetary and Space Science</i> , 2006, 54, 428-440.	1.7	76
9	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
10	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the <i>Parker Solar Probe</i> and Comparison with <i>Helios</i> . <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 62.	7.7	55
11	Electron energetics in the expanding solar wind via Helios observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8177-8193.	2.4	48
12	Firehose constraints of the bi-Kappa-distributed electrons: a zero-order approach for the suprathermal electrons in the solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 564-571.	4.4	39
13	Whistler Waves and Electron Properties in the Inner Heliosphere: Helios Observations. <i>Astrophysical Journal</i> , 2020, 897, 118.	4.5	26
14	Electron mirror instability: particle-in-cell simulations. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	24
15	Density fluctuations associated with turbulence and waves. <i>Astronomy and Astrophysics</i> , 2021, 656, A19.	5.1	24
16	Whistler waves observed by Solar Orbiter/RPW between 0.5 AU and 1 AU. <i>Astronomy and Astrophysics</i> , 2021, 656, A24.	5.1	19
17	Solar Orbiter's first Venus flyby: Observations from the Radio and Plasma Wave instrument. <i>Astronomy and Astrophysics</i> , 2021, 656, A18.	5.1	14
18	Properties of Hermean plasma belt: Numerical simulations and comparison with MESSENGER data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 413-431.	2.4	13

#	ARTICLE	IF	CITATIONS
19	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
20	First-year ion-acoustic wave observations in the solar wind by the RPW/TDS instrument on board Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A14.	5.1	13
21	Radial Evolution of Sunward Strahl Electrons in the Inner Heliosphere. <i>Solar Physics</i> , 2020, 295, 1.	2.5	12
22	Kinetic electrostatic waves and their association with current structures in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A23.	5.1	12
23	First dust measurements with the Solar Orbiter Radio and Plasma Wave instrument. <i>Astronomy and Astrophysics</i> , 2021, 656, A30.	5.1	12
24	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	3.7	11
25	Solar Wind Plasma Particles Organized by the Flow Speed. <i>Solar Physics</i> , 2020, 295, 1.	2.5	10
26	Energetic ions in the Venusian system: Insights from the first Solar Orbiter flyby. <i>Astronomy and Astrophysics</i> , 2021, 656, A7.	5.1	9
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	Observations of whistler mode waves by Solar Orbiter's RPW Low Frequency Receiver (LFR): In-flight performance and first results. <i>Astronomy and Astrophysics</i> , 2021, 656, A17.	5.1	6
29	Solar Orbiter Radio and Plasma Waves - Time Domain Sampler: In-flight performance and first results. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	6
30	Statistical study of electron density turbulence and ion-cyclotron waves in the inner heliosphere: Solar Orbiter observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A16.	5.1	5
31	Solar Orbiter/RPW antenna calibration in the radio domain and its application to type III burst observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A33.	5.1	5
32	Analysis of multiscale structures at the quasi-perpendicular Venus bow shock. <i>Astronomy and Astrophysics</i> , 2022, 660, A64.	5.1	5
33	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
34	Implications of Kappa Suprathermal Halo of the Solar Wind Electrons. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	3
35	The Solar Orbiter Radio and Plasma Waves (RPW) instrument (Corrigendum). <i>Astronomy and Astrophysics</i> , 2021, 654, C2.	5.1	2
36	Electron Kappa Distributions in the Solar Wind: Cause of the Acceleration or Consequence of the Expansion?. <i>Astrophysics and Space Science Library</i> , 2021, , 39-51.	2.7	2

#	ARTICLE	IF	CITATIONS
37	IMPALAS: Investigation of MagnetoPause Activity using Longitudinally-Aligned Satellitesâ€”a mission concept proposed for the ESA M3 2020/2022 launch. <i>Experimental Astronomy</i> , 2012, 33, 365-401.	3.7	0
38	Design of the Low Voltage Power Supply for Radio and Plasma Waves Investigation Instrument and ESA/JUICE Mission. <i>Northern International Medical College Journal</i> , 2018, 8, .	0.0	0
39	Correction to: Electron Kappa Distributions in the Solar Wind: Cause of the Acceleration or Consequence of the Expansion?. <i>Astrophysics and Space Science Library</i> , 2022, , C1-C1.	2.7	0