

# Harald Kucharek

## List of Publications by Year in descending order

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33  
papers

1,021  
citations

516710

16  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Conversion Within Current Sheets in the Earth's Quasi-Parallel Magnetosheath. Geophysical Research Letters, 2021, 48, e2020GL091859.	4.0	10
2	Observing the prevalence of thin current sheets downstream of Earth's bow shock. Physics of Plasmas, 2021, 28, .	1.9	9
3	Geometrical effects of microchannel plates: Grazing incidence operation of time-of-flight mass spectrometry and comparison to standard carbon foil. Review of Scientific Instruments, 2020, 91, 113107.	1.3	0
4	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
5	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. Journal of Geophysical Research: Space Physics, 2017, 122, 9934-9951.	2.4	3
6	Time-of-flight mass spectrographs—From ions to neutral atoms. Journal of Geophysical Research: Space Physics, 2016, 121, 11,647.	2.4	2
7	A statistical analysis of properties of small transients in the solar wind 2007–2009: STEREO and Wind observations. Journal of Geophysical Research: Space Physics, 2014, 119, 689-708.	2.4	51
8	A comparative analysis of terrestrial and planetary bow shocks. , 2011, , .		0
9	Hybrid Simulations for Pickup Ion Distributions at the Termination Shock. AIP Conference Proceedings, 2010, , .	0.4	2
10	He Pickup Ions in the Inner Heliosphere—Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.4	9
11	On the Origin of Inner Source Pickup Ions. , 2010, , .		0
12	Characteristics of Langmuir electric field waveforms and power spectra exhibiting nonlinear behavior in Earth's foreshock. Journal of Geophysical Research, 2010, 115, .	3.3	14
13	Magnetosheath for almost-aligned solar wind magnetic field and flow vectors: Wind observations across the dawnside magnetosheath at $X = \sim 12$ Re. Journal of Geophysical Research, 2010, 115, .	3.3	11
14	The Apparent Layered Structure of the Heliospheric Current Sheet: Multi-Spacecraft Observations. Solar Physics, 2009, 259, 389-416.	2.5	28
15	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. Space Science Reviews, 2009, 146, 149-172.	8.1	46
16	The Interstellar Boundary Explorer Science Operations Center. Space Science Reviews, 2009, 146, 207-234.	8.1	26
17	IBEX Backgrounds and Signal-to-Noise Ratio. Space Science Reviews, 2009, 146, 173-206.	8.1	26
18	Lunar backscatter and neutralization of the solar wind: First observations of neutral atoms from the Moon. Geophysical Research Letters, 2009, 36, .	4.0	108

#	ARTICLE	IF	CITATIONS
19	Oscillation of electron counts at 500 eV downstream of the quasi-perpendicular bow shock. Journal of Geophysical Research, 2008, 113, .	3.3	2
20	Negative helium generation upon surface scattering: Application in space science. Journal of Applied Physics, 2008, 103, .	2.5	27
21	Ion thermalization and wave excitation downstream of Earth's bow shock: A theory for Cluster observations of He <sup>2+</sup> acceleration. Journal of Geophysical Research, 2007, 112, .	3.3	10
22	Interaction of the bow shock with a tangential discontinuity and solar wind density decrease: Observations of predicted fast mode waves and magnetosheath merging. Journal of Geophysical Research, 2007, 112, .	3.3	26
23	Cluster at the Bow Shock: Introduction. Space Science Reviews, 2005, 118, 155-160.	8.1	20
24	Quasi-perpendicular Shock Structure and Processes. Space Science Reviews, 2005, 118, 161-203.	8.1	144
25	Quasi-parallel Shock Structure and Processes. Space Science Reviews, 2005, 118, 205-222.	8.1	119
26	Cluster at the Bow Shock: Status and Outlook. Space Science Reviews, 2005, 118, 223-227.	8.1	4
27	The electric potential at the Earth's quasi-parallel bow shock: Initial Cluster results. AIP Conference Proceedings, 2005, , .	0.4	1
28	A quasilinear theory of ion thermalization and wave excitation downstream of Earth's bow shock. Journal of Geophysical Research, 2005, 110, .	3.3	13
29	Multi-spacecraft observations of diffuse ions upstream of Earth's bow shock. Geophysical Research Letters, 2004, 31, .	4.0	50
30	Simultaneous observations of field-aligned beams and gyrating ions in the terrestrial foreshock. Journal of Geophysical Research, 2004, 109, .	3.3	41
31	Short large-amplitude magnetic structures and whistler wave precursors in a full-particle quasi-parallel shock simulation. Journal of Geophysical Research, 2003, 108, .	3.3	47
32	On the source and acceleration of energetic He <sup>+</sup> : A long-term observation with ACE/SEPICA. Journal of Geophysical Research, 2003, 108, .	3.3	43
33	Long-distance Correlations of Interplanetary Parameters: A Case Study with HELIOS. AIP Conference Proceedings, 2003, , .	0.4	0