Carl Henney

List of Publications by Year
in descending order

49 papers	1,714 citations	236925 25 h-index	276875 41 g-index
55 all docs	55 docs citations	55 times ranked	1346 citing authors

#	Article	IF	Citations
1	The Open Flux Problem. Astrophysical Journal, 2017, 848, 70.	4.5	135
2	The Rotation of the Deep Solar Layers. Astrophysical Journal, 2003, 597, L77-L79.	4.5	111
3	Data Assimilation in the ADAPT Photospheric Flux Transport Model. Solar Physics, 2015, 290, 1105-1118.	2.5	109
4	Seething Horizontal Magnetic Fields in the Quiet Solar Photosphere. Astrophysical Journal, 2007, 659, L177-L180.	4.5	101
5	Forecasting F_{10.7} with solar magnetic flux transport modeling. Space Weather, 2012, 10, .	3.7	85
6	Air Force Data Assimilative Photospheric Flux Transport (ADAPT) Model. AIP Conference Proceedings, 2010, , .	0.4	80
7	Evidence for Polar Jets as Precursors of Polar Plume Formation. Astrophysical Journal, 2008, 682, L137-L140.	4.5	66
8	About the rotation of the solar radiative interior. Solar Physics, 2004, 220, 269-285.	2.5	55
9	Temporal and radial variation of the solar wind temperatureâ€speed relationship. Journal of Geophysical Research, 2012, 117, .	3.3	54
10	Ensemble Modeling of CME Propagation. Solar Physics, 2013, 285, 349-368.	2.5	54
11	Models and data analysis tools for the Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A2.	5.1	53
12	The Heliospheric Current Sheet in the Inner Heliosphere Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 47.	7.7	50
13	Ensemble Modeling of the 23 July 2012 Coronal Mass Ejection. Space Weather, 2015, 13, 611-625.	3.7	49
14	Solar Wind Forecasting with Coronal Holes. Solar Physics, 2006, 233, 265-276.	2.5	47
15	Identification of Solar Acoustic Modes of Low Angular Degree and Low Radial Order. Astrophysical Journal, 2000, 537, L143-L146.	4.5	45
16	Estimating Total Open Heliospheric Magnetic Flux. Solar Physics, 2019, 294, 1.	2.5	43
17	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
18	Modeling the corona and solar wind using ADAPT maps that include far-side observations. AIP Conference Proceedings, 2013, , .	0.4	42

#	Article	IF	Citations
19	Timeâ€dependent magnetohydrodynamic simulations of the inner heliosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 2866-2890.	2.4	42
20	Validation of the AlfvÃ©n Wave Solar Atmosphere Model (AWSoM) with Observations from the Low Corona to 1 au. Astrophysical Journal, 2019, 887, 83.	4.5	41
21	Phase Coherence Analysis of Solar Magnetic Activity. Solar Physics, 2002, 207, 199-218.	2.5	38
22	CORONAL SOURCES OF THE SOLAR F_{10.7}RADIO FLUX. Astrophysical Journal, 2015, 808, 29.	4.5	33
23	Comparison of Frequencies and Rotational Splittings of Solar Acoustic Modes of Low Angular Degree from Simultaneous MDI and GOLF Observations. Astrophysical Journal, 2000, 535, 1066-1077.	4.5	31
24	Title is missing!. Solar Physics, 1997, 175, 311-328.	2.5	28
25	An Empirically Driven Time-Dependent Model of the Solar Wind. Journal of Physics: Conference Series, 2016, 719, 012012.	0.4	25
26	A NEW TECHNIQUE FOR THE PHOTOSPHERIC DRIVING OF NON-POTENTIAL SOLAR CORONAL MAGNETIC FIELD SIMULATIONS. Astrophysical Journal, 2016, 823, 55.	4.5	24
27	Small, Low-energy, Dispersive Solar Energetic Particle Events Observed by Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 65.	7.7	23
28	Forecasting solar extreme and far ultraviolet irradiance. Space Weather, 2015, 13, 141-153.	3.7	21
29	Latitude Distribution of Polar Magnetic Flux in the Chromosphere Near Solar Minimum. Astrophysical Journal, 2007, 669, 636-641.	4.5	17
30	Operational Modeling of Heliospheric Space Weather for the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 73.	7.7	15
31	Impact of Inner Heliospheric Boundary Conditions on Solar Wind Predictions at Earth. Space Weather, 2021, 19, e2020SW002499.	3.7	15
32	Using Gradient Boosting Regression to Improve Ambient Solar Wind Model Predictions. Space Weather, 2021, 19, e2020SW002673.	3.7	15
33	A Multiâ€Purpose Heliophysics L4 Mission. Space Weather, 2021, 19, e2021SW002777.	3.7	15
34	Simulating Solar Maximum Conditions Using the AlfvÃ©n Wave Solar Atmosphere Model (AWSoM). Astrophysical Journal, 2021, 923, 176.	4.5	15
35	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
36	Application usability levels: a framework for tracking project product progress. Journal of Space Weather and Space Climate, 2019, 9, A34.	3.3	13

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37	Random-Lag Singular Cross-Spectrum Analysis. Astrophysical Journal, 2000, 528, L53-L56.	4.5	11
38	Data Assimilative Optimization of WSA Source Surface and Interface Radii using Particle Filtering. Space Weather, 2020, 18, e2020SW002464.	3.7	9
39	Satellite In Situ Electron Density Observations of the Midlatitude Storm Enhanced Density on the Noon Meridional Plane in the F Region During the 20 November 2003 Magnetic Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8
40	Solar Wind Speed And Temperature Relationship. , 2010, , .		7
41	Coronal and heliospheric modeling using flux-evolved maps. AIP Conference Proceedings, 2013, , .	0.4	6
42	Scale-Dependent Data Assimilation of Solar Photospheric Magnetic Field. IFAC-PapersOnLine, 2016, 49, 193-198.	0.9	5
43	The Slowly Varying Corona. II. The Components of F _{10.7} and Their Use in EUV Proxies. Astrophysical Journal, 2019, 884, 141.	4.5	5
44	Solar Polar Flux Redistribution Based on Observed Coronal Holes. Astrophysical Journal, 2022, 932, 115.	4.5	5
45	Stokes Profile Compression Applied to VSM Data. Solar Physics, 2012, 276, 415-422.	2.5	2
46	Detecting coronal holes for solar activity modeling. , 2014, , .		1
47	Characterizing Magnetic Connectivity of Solar Flare Electron Sources to STEREO Spacecraft Using ADAPT-WSA Modeling. Astrophysical Journal, 2021, 921, 13.	4.5	1
48	Quantitative Evaluation of Coronal Magnetic Field Models Using Tomographic Reconstructions of Electron Density. Astrophysical Journal, 2022, 928, 131.	4.5	1
49	Improving Multiday Solar Wind Speed Forecasts. Space Weather, 2022, 20, .	3.7	1