

Kelly E Korreck

List of Publications by Year in descending order

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84
papers

4,855
citations

94433

37
h-index

98798

67
g-index

87
all docs

87
docs citations

87
times ranked

1898
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 131-186.	8.1	439
2	Highly structured slow solar wind emerging from an equatorial coronal hole. <i>Nature</i> , 2019, 576, 237-242.	27.8	401
3	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	27.8	311
4	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 53.	7.7	166
5	The Solar Probe Cup on the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 43.	7.7	154
6	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	129
7	Sharp Alfvénic Impulses in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 45.	7.7	115
8	The Solar Probe ANALYZERS' Electrons on the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 74.	7.7	114
9	Computer Vision for the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 79-113.	2.5	108
10	The High-Resolution Coronal Imager (Hi-C). <i>Solar Physics</i> , 2014, 289, 4393-4412.	2.5	104
11	Parker Solar Probe Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	7.8	104
12	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	27.8	103
13	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
14	Electrons in the Young Solar Wind: First Results from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 22.	7.7	99
15	EVOLUTION OF THE RELATIONSHIPS BETWEEN HELIUM ABUNDANCE, MINOR ION CHARGE STATE, AND SOLAR WIND SPEED OVER THE SOLAR CYCLE. <i>Astrophysical Journal</i> , 2012, 745, 162.	4.5	96
16	Magnetic Field Kinks and Folds in the Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 32.	7.7	86
17	Switchbacks in the Solar Magnetic Field: Their Evolution, Their Content, and Their Effects on the Plasma. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 68.	7.7	83
18	Ion-scale Electromagnetic Waves in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 66.	7.7	67

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19	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
20	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34.	7.7	65
21	Parker Solar Probe Observations of Proton Beams Simultaneous with Ion-scale Waves. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 5.	7.7	62
22	Cross Helicity Reversals in Magnetic Switchbacks. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 67.	7.7	61
23	Identification of Magnetic Flux Ropes from Parker Solar Probe Observations during the First Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 26.	7.7	57
24	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 70.	7.7	56
25	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 48.	7.7	56
26	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the Parker Solar Probe and Comparison with Helios. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 62.	7.7	55
27	Turbulence Transport Modeling and First Orbit Parker Solar Probe (PSP) Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 38.	7.7	53
28	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 37.	7.7	52
29	Measures of Scale-dependent Alfvénicity in the First PSP Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	7.7	51
30	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
31	Characteristic Scales of Magnetic Switchback Patches Near the Sun and Their Possible Association With Solar Supergranulation and Granulation. <i>Astrophysical Journal</i> , 2021, 919, 96.	4.5	50
32	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probe Solar Orbiter Radial Alignment. <i>Astrophysical Journal Letters</i> , 2021, 912, L21.	8.3	49
33	Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at $35.7 R_{\odot}$ Radii. <i>Astrophysical Journal Letters</i> , 2020, 891, L20.	8.3	46
34	Exploring Solar Wind Origins and Connecting Plasma Flows from the Parker Solar Probe to 1 au: Nonspherical Source Surface and Alfvénic Fluctuations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 54.	7.7	46
35	Density Fluctuations in the Solar Wind Based on Type III Radio Bursts Observed by Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 57.	7.7	45
36	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

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37	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L1.	5.1	43
38	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. <i>Astrophysical Journal Letters</i> , 2020, 894, L19.	8.3	39
39	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion—A Partial-variance-of-increments Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 31.	7.7	37
40	Switchbacks: statistical properties and deviations from Alfvénicity. <i>Astronomy and Astrophysics</i> , 2021, 650, A3.	5.1	37
41	The Radial Dependence of Proton-scale Magnetic Spectral Break in Slow Solar Wind during PSP Encounter 2. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 55.	7.7	36
42	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at ~ 0.25 au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 29.	7.7	35
43	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
44	Detection of small magnetic flux ropes from the third and fourth Parker Solar Probe encounters. <i>Astronomy and Astrophysics</i> , 2021, 650, A12.	5.1	35
45	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 63.	7.7	34
46	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
47	Statistical analysis of orientation, shape, and size of solar wind switchbacks. <i>Astronomy and Astrophysics</i> , 2021, 650, A1.	5.1	34
48	Electron heat flux in the near-Sun environment. <i>Astronomy and Astrophysics</i> , 2021, 650, A15.	5.1	32
49	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
50	Plasma Waves near the Electron Cyclotron Frequency in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 21.	7.7	30
51	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. <i>Physical Review Letters</i> , 2020, 125, 025102.	7.8	29
52	Source and Propagation of a Streamer Blowout Coronal Mass Ejection Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 69.	7.7	29
53	Alfvénic versus non-Alfvénic turbulence in the inner heliosphere as observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A21.	5.1	29
54	³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	7.7	27

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55	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	7.7	27
56	Direct evidence for magnetic reconnection at the boundaries of magnetic switchbacks with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A5.	5.1	27
57	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	7.7	26
58	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	7.7	25
59	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiterâ€™ Parker Solar Probe Quadrature. <i>Astrophysical Journal Letters</i> , 2021, 920, L14.	8.3	25
60	The Enhancement of Proton Stochastic Heating in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 30.	7.7	23
61	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2021, 650, A13.	5.1	23
62	Inferred Linear Stability of Parker Solar Probe Observations Using One- and Two-component Proton Distributions. <i>Astrophysical Journal</i> , 2021, 909, 7.	4.5	22
63	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A9.	5.1	22
64	Small-scale Magnetic Flux Ropes in the First Two Parker Solar Probe Encounters. <i>Astrophysical Journal</i> , 2020, 903, 76.	4.5	22
65	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	7.7	21
66	Posteruptive phenomena in coronal mass ejections and substorms: Indicators of a universal process?. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
67	Coronal electron temperature in the protracted solar minimum, the cycle 24 mini maximum, and over centuries. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1486-1492.	2.4	19
68	Applying Nyquist's method for stability determination to solar wind observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9815-9823.	2.4	17
69	MHD Mode Composition in the Inner Heliosphere from the <i>Parker Solar Probe</i>'s First Perihelion. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 71.	7.7	17
70	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , 2021, 650, A25.	5.1	17
71	Plasma Double Layers at the Boundary Between Venus and the Solar Wind. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090115.	4.0	16
72	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREOâ€™. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	4.0	16

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73	Improving the Alfvén Wave Solar Atmosphere Model Based on Parker Solar Probe Data. <i>Astrophysical Journal</i> , 2022, 925, 146.	4.5	16
74	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A24.	5.1	15
75	Predicting the Solar Wind at the Parker Solar Probe Using an Empirically Driven MHD Model. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 40.	7.7	14
76	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
77	Wave-particle energy transfer directly observed in an ion cyclotron wave. <i>Astronomy and Astrophysics</i> , 2021, 650, A10.	5.1	12
78	The contribution of alpha particles to the solar wind angular momentum flux in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, A17.	5.1	11
79	Kinetic-scale Turbulence in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090783.	4.0	11
80	The Solar Wind Angular Momentum Flux as Observed by Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2020, 902, L4.	8.3	11
81	Kinetic-scale Spectral Features of Cross Helicity and Residual Energy in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 52.	7.7	10
82	Magnetic increases with central current sheets: observations with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A11.	5.1	8
83	Solar Wind Electrons Alphas and Protons (SWEAP) Science Operations Center initial design and implementation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
84	Electrostatic Waves with Rapid Frequency Shifts in the Solar Wind from PSP observations. , 2021, , .		0