

Christopher H K Chen

List of Publications by Year in descending order

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65
papers

5,150
citations

81743

39
h-index

118652

62
g-index

65
all docs

65
docs citations

65
times ranked

2129
citing authors

#	ARTICLE	IF	CITATIONS
1	The FIELDS Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 49-82.	3.7	521
2	Highly structured slow solar wind emerging from an equatorial coronal hole. <i>Nature</i> , 2019, 576, 237-242.	13.7	401
3	IDENTIFICATION OF KINETIC ALFVÉN WAVE TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2012, 745, L9.	3.0	250
4	Solar Wind Turbulence and the Role of Ion Instabilities. <i>Space Science Reviews</i> , 2013, 178, 101-139.	3.7	221
5	Recent progress in astrophysical plasma turbulence from solar wind observations. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	178
6	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 53.	3.0	166
7	Nature of Subproton Scale Turbulence in the Solar Wind. <i>Physical Review Letters</i> , 2013, 110, 225002.	2.9	160
8	Anisotropy of Solar Wind Turbulence between Ion and Electron Scales. <i>Physical Review Letters</i> , 2010, 104, 255002.	2.9	159
9	Switchbacks in the Near-Sun Magnetic Field: Long Memory and Impact on the Turbulence Cascade. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 39.	3.0	152
10	Power and spectral index anisotropy of the entire inertial range of turbulence in the fast solar wind. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 407, L31-L35.	1.2	151
11	Ion-scale spectral break of solar wind turbulence at high and low beta. <i>Geophysical Research Letters</i> , 2014, 41, 8081-8088.	1.5	137
12	THE SLOW-MODE NATURE OF COMPRESSIBLE WAVE POWER IN SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2012, 753, L19.	3.0	136
13	Evidence for electron Landau damping in space plasma turbulence. <i>Nature Communications</i> , 2019, 10, 740.	5.8	123
14	Anisotropy of Alfvénic turbulence in the solar wind and numerical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 3219-3226.	1.6	120
15	Nature of Kinetic Scale Turbulence in the Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2017, 842, 122.	1.6	110
16	THREE-DIMENSIONAL STRUCTURE OF SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2012, 758, 120.	1.6	105
17	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	2.9	104
18	Anisotropy in Space Plasma Turbulence: Solar Wind Observations. <i>Space Science Reviews</i> , 2012, 172, 325-342.	3.7	97

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19	RESIDUAL ENERGY SPECTRUM OF SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2013, 770, 125.	1.6	95
20	Density Fluctuation Spectrum of Solar Wind Turbulence between Ion and Electron Scales. <i>Physical Review Letters</i> , 2012, 109, 035001.	2.9	89
21	USING SYNTHETIC SPACECRAFT DATA TO INTERPRET COMPRESSIBLE FLUCTUATIONS IN SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2012, 755, 159.	1.6	89
22	MULTI-SPECIES MEASUREMENTS OF THE FIREHOSE AND MIRROR INSTABILITY THRESHOLDS IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016, 825, L26.	3.0	86
23	Anisotropy of Imbalanced Alfvénic Turbulence in Fast Solar Wind. <i>Physical Review Letters</i> , 2011, 106, 045001.	2.9	82
24	ELECTRON HEAT CONDUCTION IN THE SOLAR WIND: TRANSITION FROM SPITZER-HÄRM TO THE COLLISIONLESS LIMIT. <i>Astrophysical Journal Letters</i> , 2013, 769, L22.	3.0	81
25	Ion-scale Electromagnetic Waves in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 66.	3.0	67
26	INTERMITTENCY OF SOLAR WIND DENSITY FLUCTUATIONS FROM ION TO ELECTRON SCALES. <i>Astrophysical Journal Letters</i> , 2014, 789, L8.	3.0	66
27	EXPERIMENTAL DETERMINATION OF WHISTLER WAVE DISPERSION RELATION IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016, 829, L16.	3.0	62
28	Cross Helicity Reversals in Magnetic Switchbacks. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 67.	3.0	61
29	Inertial-range kinetic turbulence in pressure-anisotropic astrophysical plasmas. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	58
30	INTERPRETING POWER ANISOTROPY MEASUREMENTS IN PLASMA TURBULENCE. <i>Astrophysical Journal Letters</i> , 2010, 711, L79-L83.	3.0	55
31	On Kinetic Slow Modes, Fluid Slow Modes, and Pressure-balanced Structures in the Solar Wind. <i>Astrophysical Journal</i> , 2017, 840, 106.	1.6	53
32	On the 1/f Spectrum in the Solar Wind and Its Connection with Magnetic Compressibility. <i>Astrophysical Journal Letters</i> , 2018, 869, L32.	3.0	53
33	Electric and magnetic spectra from MHD to electron scales in the magnetosheath. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 945-951.	1.6	52
34	A Quarter Century of <i>Wind</i> Spacecraft Discoveries. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000714.	9.0	52
35	FRAME DEPENDENCE OF THE ELECTRIC FIELD SPECTRUM OF SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2011, 737, L41.	3.0	51
36	SOLAR WIND DENSITY SPECTRA AROUND THE ION SPECTRAL BREAK. <i>Astrophysical Journal</i> , 2015, 803, 107.	1.6	51

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37	POWER SPECTRAL DENSITY OF FLUCTUATIONS OF BULK AND THERMAL SPEEDS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 825, 121.	1.6	46
38	Alignment and Scaling of Large-Scale Fluctuations in the Solar Wind. <i>Physical Review Letters</i> , 2013, 110, 025003.	2.9	41
39	PROTON HEATING IN SOLAR WIND COMPRESSIBLE TURBULENCE WITH COLLISIONS BETWEEN COUNTER-PROPAGATING WAVES. <i>Astrophysical Journal Letters</i> , 2015, 813, L30.	3.0	40
40	CORRELATIONS AT LARGE SCALES AND THE ONSET OF TURBULENCE IN THE FAST SOLAR WIND. <i>Astrophysical Journal</i> , 2013, 778, 177.	1.6	38
41	The Radial Dependence of Proton-scale Magnetic Spectral Break in Slow Solar Wind during <i><i>PSP</i></i> Encounter 2. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 55.	3.0	36
42	Measures of three-dimensional anisotropy and intermittency in strong Alfvénic turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 2130-2139.	1.6	35
43	Turbulence Characteristics of Switchback and Nonswitchback Intervals Observed by <i>ÂParker Solar Probe</i> . <i>Astrophysical Journal Letters</i> , 2020, 904, L30.	3.0	31
44	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. <i>Physical Review Letters</i> , 2020, 125, 025102.	2.9	29
45	Anisotropy of Solar Wind Turbulence in the Inner Heliosphere at Kinetic Scales: PSP Observations. <i>Astrophysical Journal Letters</i> , 2021, 915, L8.	3.0	29
46	SPECTRAL BREAKS OF ALFVÉNIC TURBULENCE IN A COLLISIONLESS PLASMA. <i>Astrophysical Journal</i> , 2015, 806, 238.	1.6	28
47	Applicability of Taylor's hypothesis during Parker Solar Probe perihelia. <i>Astronomy and Astrophysics</i> , 2021, 650, A22.	2.1	27
48	Kinetic Turbulence in Astrophysical Plasmas: Waves and/or Structures?. <i>Physical Review X</i> , 2019, 9, .	2.8	26
49	The near-Sun streamer belt solar wind: turbulence and solar wind acceleration. <i>Astronomy and Astrophysics</i> , 2021, 650, L3.	2.1	26
50	Numerical Study of Inertial Kinetic-Alfvén Turbulence. <i>Astrophysical Journal</i> , 2019, 870, 103.	1.6	25
51	The Enhancement of Proton Stochastic Heating in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 30.	3.0	23
52	Multiscale Solar Wind Turbulence Properties inside and near Switchbacks Measured by the Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 912, 28.	1.6	23
53	Magnetic field rotations in the solar wind at kinetic scales. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L64-L68.	1.2	18
54	The Fluid-like and Kinetic Behavior of Kinetic Alfvén Turbulence in Space Plasma. <i>Astrophysical Journal</i> , 2019, 870, 106.	1.6	18

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55	Scale-dependent Polarization of Solar Wind Velocity Fluctuations at the Inertial and Kinetic Scales. <i>Astrophysical Journal</i> , 2019, 870, 40.	1.6	18
56	Saturn's quasiperiodic magnetohydrodynamic waves. <i>Geophysical Research Letters</i> , 2016, 43, 11,102.	1.5	16
57	Kinetic scale density fluctuations in the solar wind. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	15
58	SPECTRAL ANISOTROPY OF ELSÄ,,SSER VARIABLES IN TWO-DIMENSIONAL WAVE-VECTOR SPACE AS OBSERVED IN THE FAST SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2016, 816, L24.	3.0	15
59	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	1.6	11
60	Kineticâ€scale Turbulence in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090783.	1.5	11
61	TESTING THE EFFECTS OF EXPANSION ON SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2016, 832, L16.	3.0	10
62	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , 2021, 921, 102.	1.6	10
63	Kinetic-scale Spectral Features of Cross Helicity and Residual Energy in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 52.	3.0	10
64	Revolutionizing Our Understanding of Particle Energization in Space Plasmas Using On-Board Wave-Particle Correlator Instrumentation. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	1.1	1
65	A new way for turbulence to heat the corona. <i>Nature Astronomy</i> , 2022, 6, 637-638.	4.2	0