

Christopher H K Chen

List of Publications by Year in descending order

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Version: 2024-02-01

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	A new way for turbulence to heat the corona. <i>Nature Astronomy</i> , 2022, 6, 637-638.	4.2	0
2	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
3	A Quarter Century of <i>Wind</i> Spacecraft Discoveries. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000714.	9.0	52
4	The near-Sun streamer belt solar wind: turbulence and solar wind acceleration. <i>Astronomy and Astrophysics</i> , 2021, 650, L3.	2.1	26
5	Applicability of Taylor's hypothesis during Parker Solar Probe perihelia. <i>Astronomy and Astrophysics</i> , 2021, 650, A22.	2.1	27
6	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
7	Kinetic-scale Turbulence in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090783.	1.5	11
8	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
9	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	2.9	104
10	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. <i>Physical Review Letters</i> , 2020, 125, 025102.	2.9	29
11	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 53.	3.0	166
12	Ion-scale Electromagnetic Waves in the Inner Heliosphere. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 66.	3.0	67
13	Cross Helicity Reversals in Magnetic Switchbacks. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 67.	3.0	61
14	The Enhancement of Proton Stochastic Heating in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 30.	3.0	23
15	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
16	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
17	The Radial Dependence of Proton-scale Magnetic Spectral Break in Slow Solar Wind during <i>PSP</i> Encounter 2. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 55.	3.0	36
18	Turbulence Characteristics of Switchback and Nonswitchback Intervals Observed by <i>Parker Solar Probe</i> . <i>Astrophysical Journal Letters</i> , 2020, 904, L30.	3.0	31

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19	Kinetic Turbulence in Astrophysical Plasmas: Waves and/or Structures?. Physical Review X, 2019, 9, .	2.8	26
20	The Fluid-like and Kinetic Behavior of Kinetic Alfvén Turbulence in Space Plasma. Astrophysical Journal, 2019, 870, 106.	1.6	18
21	Evidence for electron Landau damping in space plasma turbulence. Nature Communications, 2019, 10, 740.	5.8	123
22	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	13.7	401
23	Scale-dependent Polarization of Solar Wind Velocity Fluctuations at the Inertial and Kinetic Scales. Astrophysical Journal, 2019, 870, 40.	1.6	18
24	Numerical Study of Inertial Kinetic-Alfvén Turbulence. Astrophysical Journal, 2019, 870, 103.	1.6	25
25	On the $1/f$ Spectrum in the Solar Wind and Its Connection with Magnetic Compressibility. Astrophysical Journal Letters, 2018, 869, L32.	3.0	53
26	On Kinetic Slow Modes, Fluid Slow Modes, and Pressure-balanced Structures in the Solar Wind. Astrophysical Journal, 2017, 840, 106.	1.6	53
27	Nature of Kinetic Scale Turbulence in the Earth's Magnetosheath. Astrophysical Journal, 2017, 842, 122.	1.6	110
28	Electric and magnetic spectra from MHD to electron scales in the magnetosheath. Monthly Notices of the Royal Astronomical Society, 2017, 466, 945-951.	1.6	52
29	TESTING THE EFFECTS OF EXPANSION ON SOLAR WIND TURBULENCE. Astrophysical Journal Letters, 2016, 832, L16.	3.0	10
30	MULTI-SPECIES MEASUREMENTS OF THE FIREHOSE AND MIRROR INSTABILITY THRESHOLDS IN THE SOLAR WIND. Astrophysical Journal Letters, 2016, 825, L26.	3.0	86
31	Recent progress in astrophysical plasma turbulence from solar wind observations. Journal of Plasma Physics, 2016, 82, .	0.7	178
32	POWER SPECTRAL DENSITY OF FLUCTUATIONS OF BULK AND THERMAL SPEEDS IN THE SOLAR WIND. Astrophysical Journal, 2016, 825, 121.	1.6	46
33	Saturn's quasiperiodic magnetohydrodynamic waves. Geophysical Research Letters, 2016, 43, 11,102.	1.5	16
34	EXPERIMENTAL DETERMINATION OF WHISTLER WAVE DISPERSION RELATION IN THE SOLAR WIND. Astrophysical Journal Letters, 2016, 829, L16.	3.0	62
35	SPECTRAL ANISOTROPY OF ELEMENTARY VARIABLES IN TWO-DIMENSIONAL WAVE-VECTOR SPACE AS OBSERVED IN THE FAST SOLAR WIND TURBULENCE. Astrophysical Journal Letters, 2016, 816, L24.	3.0	15
36	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	3.7	521

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37	Measures of three-dimensional anisotropy and intermittency in strong Alfvénic turbulence. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2130-2139.	1.6	35
38	Inertial-range kinetic turbulence in pressure-anisotropic astrophysical plasmas. Journal of Plasma Physics, 2015, 81, .	0.7	58
39	PROTON HEATING IN SOLAR WIND COMPRESSIBLE TURBULENCE WITH COLLISIONS BETWEEN COUNTER-PROPAGATING WAVES. Astrophysical Journal Letters, 2015, 813, L30.	3.0	40
40	SOLAR WIND DENSITY SPECTRA AROUND THE ION SPECTRAL BREAK. Astrophysical Journal, 2015, 803, 107.	1.6	51
41	SPECTRAL BREAKS OF ALFVÉNIC TURBULENCE IN A COLLISIONLESS PLASMA. Astrophysical Journal, 2015, 806, 238.	1.6	28
42	Magnetic field rotations in the solar wind at kinetic scales. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 453, L64-L68.	1.2	18
43	INTERMITTENCY OF SOLAR WIND DENSITY FLUCTUATIONS FROM ION TO ELECTRON SCALES. Astrophysical Journal Letters, 2014, 789, L8.	3.0	66
44	Ion-scale spectral break of solar wind turbulence at high and low beta. Geophysical Research Letters, 2014, 41, 8081-8088.	1.5	137
45	Solar Wind Turbulence and the Role of Ion Instabilities. Space Science Reviews, 2013, 178, 101-139.	3.7	221
46	Nature of Subproton Scale Turbulence in the Solar Wind. Physical Review Letters, 2013, 110, 225002.	2.9	160
47	ELECTRON HEAT CONDUCTION IN THE SOLAR WIND: TRANSITION FROM SPITZER-HÄRM TO THE COLLISIONLESS LIMIT. Astrophysical Journal Letters, 2013, 769, L22.	3.0	81
48	Kinetic scale density fluctuations in the solar wind. AIP Conference Proceedings, 2013, , .	0.3	15
49	RESIDUAL ENERGY SPECTRUM OF SOLAR WIND TURBULENCE. Astrophysical Journal, 2013, 770, 125.	1.6	95
50	CORRELATIONS AT LARGE SCALES AND THE ONSET OF TURBULENCE IN THE FAST SOLAR WIND. Astrophysical Journal, 2013, 778, 177.	1.6	38
51	Alignment and Scaling of Large-Scale Fluctuations in the Solar Wind. Physical Review Letters, 2013, 110, 025003.	2.9	41
52	IDENTIFICATION OF KINETIC ALFVÉN WAVE TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2012, 745, L9.	3.0	250
53	THREE-DIMENSIONAL STRUCTURE OF SOLAR WIND TURBULENCE. Astrophysical Journal, 2012, 758, 120.	1.6	105
54	Anisotropy in Space Plasma Turbulence: Solar Wind Observations. Space Science Reviews, 2012, 172, 325-342.	3.7	97

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55	Density Fluctuation Spectrum of Solar Wind Turbulence between Ion and Electron Scales. Physical Review Letters, 2012, 109, 035001.	2.9	89
56	THE SLOW-MODE NATURE OF COMPRESSIBLE WAVE POWER IN SOLAR WIND TURBULENCE. Astrophysical Journal Letters, 2012, 753, L19.	3.0	136
57	USING SYNTHETIC SPACECRAFT DATA TO INTERPRET COMPRESSIBLE FLUCTUATIONS IN SOLAR WIND TURBULENCE. Astrophysical Journal, 2012, 755, 159.	1.6	89
58	FRAME DEPENDENCE OF THE ELECTRIC FIELD SPECTRUM OF SOLAR WIND TURBULENCE. Astrophysical Journal Letters, 2011, 737, L41.	3.0	51
59	Anisotropy of Alfvénic turbulence in the solar wind and numerical simulations. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3219-3226.	1.6	120
60	Anisotropy of Imbalanced Alfvénic Turbulence in Fast Solar Wind. Physical Review Letters, 2011, 106, 045001.	2.9	82
61	INTERPRETING POWER ANISOTROPY MEASUREMENTS IN PLASMA TURBULENCE. Astrophysical Journal Letters, 2010, 711, L79-L83.	3.0	55
62	Power and spectral index anisotropy of the entire inertial range of turbulence in the fast solar wind. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 407, L31-L35.	1.2	151
63	Anisotropy of Solar Wind Turbulence between Ion and Electron Scales. Physical Review Letters, 2010, 104, 255002.	2.9	159
64	A Case for Electron-Astrophysics. Experimental Astronomy, 0, , 1.	1.6	11
65	Revolutionizing Our Understanding of Particle Energization in Space Plasmas Using On-Board Wave-Particle Correlator Instrumentation. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	1