

William H Matthaeus

List of Publications by Year in descending order

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513
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513
times ranked

5188
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	1.6	14
2	PSP/ISÅ™MIS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , 2022, 925, 212.	1.6	3
3	Sub-AlfvÅ™nic Solar Wind Observed by the Parker Solar Probe: Characterization of Turbulence, Anisotropy, Intermittency, and Switchback. <i>Astrophysical Journal Letters</i> , 2022, 926, L1.	3.0	28
4	Relativistic Particle Transport and Acceleration in Structured Plasma Turbulence. <i>Astrophysical Journal</i> , 2022, 928, 25.	1.6	15
5	Statistical Analysis of Intermittency and its Association with Proton Heating in the Near-Sun Environment. <i>Astrophysical Journal</i> , 2022, 927, 140.	1.6	12
6	An extended and fragmented AlfvÅ™n zone in the Young Solar Wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 159-167.	1.6	11
7	Intermittency in the Expanding Solar Wind: Observations from Parker Solar Probe (0.16 au), Helios 1 (0.3â€™1 au), and Voyager 1 (1â€™10 au). <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 23.	3.0	17
8	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , 2022, 927, 62.	1.6	3
9	Magnetic Switchback Occurrence Rates in the Inner Heliosphere: Parker Solar Probe and 1 au. <i>Astrophysical Journal Letters</i> , 2022, 929, L10.	3.0	11
10	von Karman correlation similarity in solar wind magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2022, 105, 045204.	0.8	2
11	Pressureâ€™Strain Interaction as the Energy Dissipation Estimate in Collisionless Plasma. <i>Astrophysical Journal</i> , 2022, 929, 142.	1.6	31
12	Isotropization and Evolution of Energy-containing Eddies in Solar Wind Turbulence: Parker Solar Probe, Helios 1, ACE, WIND, and Voyager 1. <i>Astrophysical Journal Letters</i> , 2022, 932, L11.	3.0	16
13	Energetic Particle Perpendicular Diffusion: Simulations and Theory in Noisy Reduced Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2022, 932, 127.	1.6	1
14	On the Transmission of Turbulent Structures across the Earthâ€™s Bow Shock. <i>Astrophysical Journal</i> , 2022, 933, 167.	1.6	15
15	Random Walk and Trapping of Interplanetary Magnetic Field Lines: Global Simulation, Magnetic Connectivity, and Implications for Solar Energetic Particles. <i>Astrophysical Journal</i> , 2021, 908, 174.	1.6	11
16	Turbulence in space plasmas: Who needs it?. <i>Physics of Plasmas</i> , 2021, 28, 032306.	0.7	49
17	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
18	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	24

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19	Energy budget in decaying compressible MHD turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	7
20	Subproton-scale Intermittency in Near-Sun Solar Wind Turbulence Observed by the Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2021, 911, L7.	3.0	30
21	Dissipation measures in weakly collisional plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4857-4873.	1.6	29
22	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , 2021, 650, L4.	2.1	12
23	Solar energetic particle heavy ion properties in the widespread event of 2020 November 29. <i>Astronomy and Astrophysics</i> , 2021, 656, L12.	2.1	13
24	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , 2021, 650, A23.	2.1	13
25	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	0.8	12
26	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	2.1	20
27	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A24.	2.1	15
28	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	2.1	14
29	Identification of coherent structures in space plasmas: the magnetic helicityâ€PVI method. <i>Astronomy and Astrophysics</i> , 2021, 650, A20.	2.1	18
30	MagneToRE: Mapping the 3-D Magnetic Structure of the Solar Wind Using a Large Constellation of Nanosatellites. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	13
31	PSP/ISAÏ™IS observations of the 29 November 2020 solar energetic particle event. <i>Astronomy and Astrophysics</i> , 2021, 656, A29.	2.1	15
32	Parker Solar Probe observations of helical structures as boundaries for energetic particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2114-2122.	1.6	10
33	Nonâ€Maxwellianity of Electron Distributions Near Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029260.	0.8	9
34	Solar Orbiter observations of the Kelvin-Helmholtz waves in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A12.	2.1	13
35	von Karman Correlation Similarity of the Turbulent Interplanetary Magnetic Field. <i>Astrophysical Journal Letters</i> , 2021, 919, L27.	3.0	6
36	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

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37	Turbulent Magnetogenesis in a Collisionless Plasma. <i>Astrophysical Journal Letters</i> , 2021, 922, L18.	3.0	4
38	Energy dissipation in turbulent reconnection. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	22
39	Energy transfer in reconnection and turbulence. <i>Physical Review E</i> , 2021, 104, 065206.	0.8	16
40	Domains of Magnetic Pressure Balance in Parker Solar Probe Observations of the Solar Wind. <i>Astrophysical Journal</i> , 2021, 923, 158.	1.6	4
41	Large-scale Structure and Turbulence Transport in the Inner Solar Wind: Comparison of Parker Solar Probe's First Five Orbits with a Global 3D Reynolds-averaged MHD Model. <i>Astrophysical Journal</i> , 2021, 923, 89.	1.6	20
42	Novel aspects of cosmic ray diffusion in synthetic magnetic turbulence. <i>Physical Review D</i> , 2020, 102, .	1.6	26
43	Reconnection from a turbulence perspective. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	17
44	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	2.9	43
45	Intermittency and Ion Temperature Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , 2020, 895, 83.	1.6	10
46	Pathways to Dissipation in Weakly Collisional Plasmas. <i>Astrophysical Journal</i> , 2020, 891, 101.	1.6	56
47	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.	3.0	25
48	Critical Balance and the Physics of Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2020, 897, 37.	1.6	39
49	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020, 124, 255101.	2.9	41
50	A detailed examination of anisotropy and timescales in three-dimensional incompressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	5
51	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.	3.0	37
52	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	3.0	26
53	Measures of Scale-dependent Anisotropy in the First PSP Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	3.0	51
54	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at ≈ 0.25 au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 29.	3.0	35

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55	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the ISÅS™IS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 41.	3.0	17
56	³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	3.0	27
57	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 48.	3.0	56
58	CME-associated Energetic Ions at 0.23 au: Consideration of the Auroral Pressure Cooker Mechanism Operating in the Low Corona as a Possible Energization Process. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 59.	3.0	21
59	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	3.0	31
60	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	3.0	21
61	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	3.0	27
62	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
63	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probe's First Two Orbits. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 56.	3.0	29
64	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. <i>Astrophysical Journal Letters</i> , 2020, 893, L25.	3.0	11
65	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020, 898, 153.	1.6	27
66	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , 2020, 899, 63.	1.6	21
67	Shear-driven Transition to Isotropically Turbulent Solar Wind Outside the Alfvén Critical Zone. <i>Astrophysical Journal</i> , 2020, 902, 94.	1.6	83
68	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	1.6	9
69	Particle-in-cell Simulations of Decaying Plasma Turbulence: Linear Instabilities versus Nonlinear Processes in 3D and 2.5D Approximations. <i>Astrophysical Journal</i> , 2020, 901, 160.	1.6	9
70	The interpretation of data from the Parker Solar Probe mission: shear-driven transition to an isotropically turbulent solar wind. <i>Radiation Effects and Defects in Solids</i> , 2020, 175, 1002-1003.	0.4	0
71	Single-spacecraft Identification of Flux Tubes and Current Sheets in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2019, 881, L11.	3.0	18
72	Evolution of similarity lengths in anisotropic magnetohydrodynamic turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 876, 5-18.	1.4	12

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73	Current Sheets, Magnetic Islands, and Associated Particle Acceleration in the Solar Wind as Observed by Ulysses near the Ecliptic Plane. <i>Astrophysical Journal</i> , 2019, 881, 116.	1.6	29
74	Reynolds Number and Intermittency in the Expanding Solar Wind: Predictions Based on Voyager Observations. <i>Astrophysical Journal Letters</i> , 2019, 884, L57.	3.0	19
75	Energy conversion in turbulent weakly collisional plasmas: Eulerian hybrid Vlasov-Maxwell simulations. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	23
76	Decomposition of plasma kinetic entropy into position and velocity space and the use of kinetic entropy in particle-in-cell simulations. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	20
77	Role of magnetic field curvature in magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	20
78	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	61
79	Turbulent electromagnetic fields at sub-proton scales: Two-fluid and full-kinetic plasma simulations. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	24
80	Contextual Predictions for <i>Parker Solar Probe</i>. II. Turbulence Properties and Taylor Hypothesis. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 12.	3.0	45
81	Contextual Predictions for the Parker Solar Probe. I. Critical Surfaces and Regions. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 11.	3.0	33
82	Spatio-temporal behavior of magnetohydrodynamic fluctuations with cross-helicity and background magnetic field. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	9
83	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	13.7	103
84	Scale dependence of energy transfer in turbulent plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4933-4940.	1.6	41
85	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
86	Partial Variance of Increments Method in Solar Wind Observations and Plasma Simulations. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	67
87	Turbulent heating due to magnetic reconnection. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	29
88	Weakened Magnetization and Onset of Large-scale Turbulence in the Young Solar Wind—Comparisons of Remote Sensing Observations with Simulation. <i>Astrophysical Journal Letters</i> , 2018, 856, L39.	3.0	17
89	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018, 856, L19.	3.0	55
90	Ion diffusion and acceleration in plasma turbulence. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	16

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91	Dependence of Kinetic Plasma Turbulence on Plasma \hat{v}^2 . <i>Astrophysical Journal Letters</i> , 2018, 864, L21.	3.0	42
92	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	1.6	42
93	Finite Dissipation in Anisotropic Magnetohydrodynamic Turbulence. <i>Physical Review X</i> , 2018, 8, .	2.8	24
94	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2018, 121, 265101.	2.9	17
95	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9941-9954.	0.8	51
96	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2018, 866, 25.	1.6	21
97	The Steady Global Corona and Solar Wind: A Three-dimensional MHD Simulation with Turbulence Transport and Heating. <i>Astrophysical Journal</i> , 2018, 865, 25.	1.6	69
98	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	129
99	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	1.6	48
100	Generation of Turbulence in Colliding Reconnection Jets. <i>Astrophysical Journal</i> , 2018, 867, 10.	1.6	26
101	Velocity-space cascade in magnetized plasmas: Numerical simulations. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	37
102	Energy Conversion and Collisionless Plasma Dissipation Channels in the Turbulent Magnetosheath Observed by the Magnetospheric Multiscale Mission. <i>Astrophysical Journal</i> , 2018, 862, 32.	1.6	55
103	Single-mode nonlinear Langevin emulation of magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2018, 97, 053211.	0.8	8
104	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	1.6	50
105	Compressibility effect on coherent structures, energy transfer, and scaling in magnetohydrodynamic turbulence. <i>Physics of Fluids</i> , 2017, 29, .	1.6	32
106	Colliding Alfvénic wave packets in magnetohydrodynamics, Hall and kinetic simulations. <i>Journal of Plasma Physics</i> , 2017, 83, .	0.7	38
107	Properties of Turbulence in the Reconnection Exhaust: Numerical Simulations Compared with Observations. <i>Astrophysical Journal</i> , 2017, 841, 60.	1.6	43
108	Reduced MHD in Astrophysical Applications: Two-dimensional or Three-dimensional?. <i>Astrophysical Journal</i> , 2017, 839, 2.	1.6	29

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109	Charged Particle Diffusion in Isotropic Random Magnetic Fields. <i>Astrophysical Journal</i> , 2017, 837, 140.	1.6	37
110	Exploring the statistics of magnetic reconnection X-points in kinetic particle-in-cell turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	37
111	REVISITING A CLASSIC: THE PARKERâ€“MOFFATT PROBLEM. <i>Astrophysical Journal</i> , 2017, 834, 166.	1.6	32
112	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , 2017, 844, L9.	3.0	30
113	Energy transfer, pressure tensor, and heating of kinetic plasma. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	115
114	Coronal Heating Topology: The Interplay of Current Sheets and Magnetic Field Lines. <i>Astrophysical Journal</i> , 2017, 844, 87.	1.6	13
115	Turbulence generation during the head-on collision of Alfvénic wave packets. <i>Physical Review E</i> , 2017, 96, 023201.	0.8	24
116	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	2.9	69
117	Interplay between Alfvén and magnetosonic waves in compressible magnetohydrodynamics turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	26
118	Test Particle Energization and the Anisotropic Effects of Dynamical MHD Turbulence. <i>Astrophysical Journal</i> , 2017, 850, 19.	1.6	14
119	Energy transfer channels and turbulence cascade in Vlasov-Maxwell turbulence. <i>Physical Review E</i> , 2017, 95, 061201.	0.8	63
120	Cosmic-Ray Diffusion Coefficients throughout the Inner Heliosphere from a Global Solar Wind Simulation. <i>Astrophysical Journal, Supplement Series</i> , 2017, 230, 21.	3.0	42
121	Theory and Modeling for the Magnetospheric Multiscale Mission. , 2017, , 575-628.		0
122	From Alfvén waves to kinetic Alfvén waves in an inhomogeneous equilibrium structure. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1024-1045.	0.8	33
123	VARIANCE ANISOTROPY IN KINETIC PLASMAS. <i>Astrophysical Journal</i> , 2016, 824, 44.	1.6	14
124	Variance anisotropy in compressible 3D MHD. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5041-5054.	0.8	14
125	On the spatio-temporal behavior of magnetohydrodynamic turbulence in a magnetized plasma. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	20
126	On the compressibility effect in test particle acceleration by magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	10

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127	Intermittency, coherent structures and dissipation in plasma turbulence. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	77
128	PROPINQUITY OF CURRENT AND VORTEX STRUCTURES: EFFECTS ON COLLISIONLESS PLASMA HEATING. <i>Astrophysical Journal</i> , 2016, 832, 57.	1.6	54
129	A FOUR-FLUID MHD MODEL OF THE SOLAR WIND/INTERSTELLAR MEDIUM INTERACTION WITH TURBULENCE TRANSPORT AND PICKUP PROTONS AS SEPARATE FLUID. <i>Astrophysical Journal</i> , 2016, 820, 17.	1.6	54
130	SOLAR WIND COLLISIONAL AGE FROM A GLOBAL MAGNETOHYDRODYNAMICS SIMULATION. <i>Astrophysical Journal</i> , 2016, 821, 34.	1.6	16
131	Local modulation and trapping of energetic particles by coherent magnetic structures. <i>Geophysical Research Letters</i> , 2016, 43, 3620-3627.	1.5	20
132	TURBULENCE AND PROTON- α -ELECTRON HEATING IN KINETIC PLASMA. <i>Astrophysical Journal Letters</i> , 2016, 827, L7.	3.0	43
133	EVOLUTION OF THE MAGNETIC FIELD LINE DIFFUSION COEFFICIENT AND NON-GAUSSIAN STATISTICS. <i>Astrophysical Journal</i> , 2016, 827, 115.	1.6	4
134	FADING CORONAL STRUCTURE AND THE ONSET OF TURBULENCE IN THE YOUNG SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 828, 66.	1.6	69
135	Explosive Particle Dispersion in Plasma Turbulence. <i>Physical Review Letters</i> , 2016, 117, 095101.	2.9	18
136	MAGNETIC FIELD LINE RANDOM WALK IN ISOTROPIC TURBULENCE WITH VARYING MEAN FIELD. <i>Astrophysical Journal</i> , Supplement Series, 2016, 225, 20.	3.0	9
137	Energy cascade and its locality in compressible magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2016, 93, 061102.	0.8	37
138	Ensemble Space-Time Correlation of Plasma Turbulence in the Solar Wind. <i>Physical Review Letters</i> , 2016, 116, 245101.	2.9	25
139	SIMULATIONS OF LATERAL TRANSPORT AND DROPOUT STRUCTURE OF ENERGETIC PARTICLES FROM IMPULSIVE SOLAR FLARES. <i>Astrophysical Journal</i> , 2016, 831, 195.	1.6	25
140	Turbulence Heating Observer α satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	60
141	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 577-630.	3.7	53
142	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , 2016, 204, 187-256.	3.7	139
143	Turbulent dissipation challenge: a community-driven effort. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	42
144	EFFECT OF COHERENT STRUCTURES ON ENERGETIC PARTICLE INTENSITY IN THE SOLAR WIND AT 1 AU. <i>Astrophysical Journal</i> , 2015, 812, 68.	1.6	27

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145	Large-Eddy Simulations of Magnetohydrodynamic Turbulence in Heliophysics and Astrophysics. Space Science Reviews, 2015, 194, 97-137.	3.7	56
146	KINETIC ALFVÉN WAVE GENERATION BY LARGE-SCALE PHASE MIXING. Astrophysical Journal, 2015, 815, 7.	1.6	38
147	TURBULENCE IN THE SOLAR WIND MEASURED WITH COMET TAIL TEST PARTICLES. Astrophysical Journal, 2015, 812, 108.	1.6	13
148	A kinetic model of plasma turbulence. Journal of Plasma Physics, 2015, 81, .	0.7	136
149	MAGNETIC FIELD LINE RANDOM WALK IN ISOTROPIC TURBULENCE WITH ZERO MEAN FIELD. Astrophysical Journal, 2015, 798, 59.	1.6	15
150	Intermittency, nonlinear dynamics and dissipation in the solar wind and astrophysical plasmas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140154.	1.6	141
151	MULTI-SPACECRAFT MEASUREMENT OF TURBULENCE WITHIN A MAGNETIC RECONNECTION JET. Astrophysical Journal Letters, 2015, 815, L24.	3.0	29
152	Systematic averaging interval effects on solar wind statistics. Journal of Geophysical Research: Space Physics, 2015, 120, 868-879.	0.8	33
153	Intermittent Dissipation and Heating in 3D Kinetic Plasma Turbulence. Physical Review Letters, 2015, 114, 175002.	2.9	110
154	DYNAMICAL FIELD LINE CONNECTIVITY IN MAGNETIC TURBULENCE. Astrophysical Journal, 2015, 806, 233.	1.6	5
155	Multipoint observations of plasma phenomena made in space by Cluster. Journal of Plasma Physics, 2015, 81, .	0.7	18
156	Anisotropy in solar wind plasma turbulence. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140152.	1.6	88
157	TRANSITION FROM KINETIC TO MHD BEHAVIOR IN A COLLISIONLESS PLASMA. Astrophysical Journal, 2015, 811, 112.	1.6	40
158	DISSIPATION AND RECONNECTION IN BOUNDARY-DRIVEN REDUCED MAGNETOHYDRODYNAMICS. Astrophysical Journal, 2014, 797, 63.	1.6	32
159	Magnetic field reversals and long-time memory in conducting flows. Physical Review E, 2014, 90, 043010.	0.8	11
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