

William H Matthaeus

List of Publications by Year in descending order

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papers

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2802

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513
docs citations

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.	3.7	14
2	PSP/ISÅ™IS 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.	4.5	3
3	Sub-AlfvÃ©nic Solar Wind Observed by the Parker Solar Probe: Characterization of Turbulence, Anisotropy, Intermittency, and Switchback. <i>Astrophysical Journal Letters</i> , 2022, 926, L1.	8.3	28
4	Relativistic Particle Transport and Acceleration in Structured Plasma Turbulence. <i>Astrophysical Journal</i> , 2022, 928, 25.	4.5	15
5	Statistical Analysis of Intermittency and its Association with Proton Heating in the Near-Sun Environment. <i>Astrophysical Journal</i> , 2022, 927, 140.	4.5	12
6	An extended and fragmented AlfvÃ©n zone in the Young Solar Wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 159-167.	4.4	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.	7.7	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.	4.5	3
9	Magnetic Switchback Occurrence Rates in the Inner Heliosphere: Parker Solar Probe and 1 au. <i>Astrophysical Journal Letters</i> , 2022, 929, L10.	8.3	11
10	von Karman correlation similarity in solar wind magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2022, 105, 045204.	2.1	2
11	Pressureâ€“Strain Interaction as the Energy Dissipation Estimate in Collisionless Plasma. <i>Astrophysical Journal</i> , 2022, 929, 142.	4.5	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.	8.3	16
13	Energetic Particle Perpendicular Diffusion: Simulations and Theory in Noisy Reduced Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2022, 932, 127.	4.5	1
14	On the Transmission of Turbulent Structures across the Earthâ€™s Bow Shock. <i>Astrophysical Journal</i> , 2022, 933, 167.	4.5	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.	4.5	11
16	Turbulence in space plasmas: Who needs it?. <i>Physics of Plasmas</i> , 2021, 28, 032306.	1.9	49
17	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	32
18	Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	24

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19	Energy budget in decaying compressible MHD turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	3.4	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.	8.3	30
21	Dissipation measures in weakly collisional plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4857-4873.	4.4	29
22	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , 2021, 650, L4.	5.1	12
23	Solar energetic particle heavy ion properties in the widespread event of 2020 November 29. <i>Astronomy and Astrophysics</i> , 2021, 656, L12.	5.1	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.	5.1	13
25	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	2.4	12
26	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	5.1	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.	5.1	15
28	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	5.1	14
29	Identification of coherent structures in space plasmas: the magnetic helicityâ€PVI method. <i>Astronomy and Astrophysics</i> , 2021, 650, A20.	5.1	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, .	2.8	13
31	PSP/ISAÏ™IS observations of the 29 November 2020 solar energetic particle event. <i>Astronomy and Astrophysics</i> , 2021, 656, A29.	5.1	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.	4.4	10
33	Nonâ€Maxwellianity of Electron Distributions Near Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029260.	2.4	9
34	Solar Orbiter observations of the Kelvin-Helmholtz waves in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A12.	5.1	13
35	von Karman Correlation Similarity of the Turbulent Interplanetary Magnetic Field. <i>Astrophysical Journal Letters</i> , 2021, 919, L27.	8.3	6
36	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , 2021, 921, 102.	4.5	10

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37	Turbulent Magnetogenesis in a Collisionless Plasma. <i>Astrophysical Journal Letters</i> , 2021, 922, L18.	8.3	4
38	Energy dissipation in turbulent reconnection. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	22
39	Energy transfer in reconnection and turbulence. <i>Physical Review E</i> , 2021, 104, 065206.	2.1	16
40	Domains of Magnetic Pressure Balance in Parker Solar Probe Observations of the Solar Wind. <i>Astrophysical Journal</i> , 2021, 923, 158.	4.5	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.	4.5	20
42	Novel aspects of cosmic ray diffusion in synthetic magnetic turbulence. <i>Physical Review D</i> , 2020, 102, .	4.7	26
43	Reconnection from a turbulence perspective. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	17
44	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	7.8	43
45	Intermittency and Ion Temperature Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , 2020, 895, 83.	4.5	10
46	Pathways to Dissipation in Weakly Collisional Plasmas. <i>Astrophysical Journal</i> , 2020, 891, 101.	4.5	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.	7.7	25
48	Critical Balance and the Physics of Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2020, 897, 37.	4.5	39
49	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020, 124, 255101.	7.8	41
50	A detailed examination of anisotropy and timescales in three-dimensional incompressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	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.	7.7	37
52	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
53	Measures of Scale-dependent Anisotropy in the First PSP Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	7.7	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.	7.7	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.	7.7	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.	7.7	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.	7.7	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.	7.7	21
59	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
60	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	7.7	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.	7.7	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.	7.7	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.	7.7	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.	8.3	11
65	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020, 898, 153.	4.5	27
66	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , 2020, 899, 63.	4.5	21
67	Shear-driven Transition to Isotropically Turbulent Solar Wind Outside the Alfvén Critical Zone. <i>Astrophysical Journal</i> , 2020, 902, 94.	4.5	83
68	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	4.5	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.	4.5	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.	1.2	0
71	Single-spacecraft Identification of Flux Tubes and Current Sheets in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2019, 881, L11.	8.3	18
72	Evolution of similarity lengths in anisotropic magnetohydrodynamic turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 876, 5-18.	3.4	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.	4.5	29
74	Reynolds Number and Intermittency in the Expanding Solar Wind: Predictions Based on Voyager Observations. <i>Astrophysical Journal Letters</i> , 2019, 884, L57.	8.3	19
75	Energy conversion in turbulent weakly collisional plasmas: Eulerian hybrid Vlasov-Maxwell simulations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	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, .	1.9	20
77	Role of magnetic field curvature in magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	20
78	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	61
79	Turbulent electromagnetic fields at sub-proton scales: Two-fluid and full-kinetic plasma simulations. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	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.	7.7	45
81	Contextual Predictions for the Parker Solar Probe. I. Critical Surfaces and Regions. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 11.	7.7	33
82	Spatio-temporal behavior of magnetohydrodynamic fluctuations with cross-helicity and background magnetic field. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
83	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	27.8	103
84	Scale dependence of energy transfer in turbulent plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4933-4940.	4.4	41
85	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	4.0	69
86	Partial Variance of Increments Method in Solar Wind Observations and Plasma Simulations. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	67
87	Turbulent heating due to magnetic reconnection. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	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.	8.3	17
89	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018, 856, L19.	8.3	55
90	Ion diffusion and acceleration in plasma turbulence. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	16

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91	Dependence of Kinetic Plasma Turbulence on Plasma \hat{v}^2 . <i>Astrophysical Journal Letters</i> , 2018, 864, L21.	8.3	42
92	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	4.5	42
93	Finite Dissipation in Anisotropic Magnetohydrodynamic Turbulence. <i>Physical Review X</i> , 2018, 8, .	8.9	24
94	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2018, 121, 265101.	7.8	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.	2.4	51
96	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2018, 866, 25.	4.5	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.	4.5	69
98	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	129
99	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	4.5	48
100	Generation of Turbulence in Colliding Reconnection Jets. <i>Astrophysical Journal</i> , 2018, 867, 10.	4.5	26
101	Velocity-space cascade in magnetized plasmas: Numerical simulations. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	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.	4.5	55
103	Single-mode nonlinear Langevin emulation of magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2018, 97, 053211.	2.1	8
104	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	4.5	50
105	Compressibility effect on coherent structures, energy transfer, and scaling in magnetohydrodynamic turbulence. <i>Physics of Fluids</i> , 2017, 29, .	4.0	32
106	Colliding Alfvénic wave packets in magnetohydrodynamics, Hall and kinetic simulations. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	38
107	Properties of Turbulence in the Reconnection Exhaust: Numerical Simulations Compared with Observations. <i>Astrophysical Journal</i> , 2017, 841, 60.	4.5	43
108	Reduced MHD in Astrophysical Applications: Two-dimensional or Three-dimensional?. <i>Astrophysical Journal</i> , 2017, 839, 2.	4.5	29

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109	Charged Particle Diffusion in Isotropic Random Magnetic Fields. <i>Astrophysical Journal</i> , 2017, 837, 140.	4.5	37
110	Exploring the statistics of magnetic reconnection X-points in kinetic particle-in-cell turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	37
111	REVISITING A CLASSIC: THE PARKERâ€“MOFFATT PROBLEM. <i>Astrophysical Journal</i> , 2017, 834, 166.	4.5	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.	8.3	30
113	Energy transfer, pressure tensor, and heating of kinetic plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	115
114	Coronal Heating Topology: The Interplay of Current Sheets and Magnetic Field Lines. <i>Astrophysical Journal</i> , 2017, 844, 87.	4.5	13
115	Turbulence generation during the head-on collision of Alfvénic wave packets. <i>Physical Review E</i> , 2017, 96, 023201.	2.1	24
116	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	7.8	69
117	Interplay between Alfvén and magnetosonic waves in compressible magnetohydrodynamics turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	26
118	Test Particle Energization and the Anisotropic Effects of Dynamical MHD Turbulence. <i>Astrophysical Journal</i> , 2017, 850, 19.	4.5	14
119	Energy transfer channels and turbulence cascade in Vlasov-Maxwell turbulence. <i>Physical Review E</i> , 2017, 95, 061201.	2.1	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.	7.7	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.	2.4	33
123	VARIANCE ANISOTROPY IN KINETIC PLASMAS. <i>Astrophysical Journal</i> , 2016, 824, 44.	4.5	14
124	Variance anisotropy in compressible 3D MHD. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5041-5054.	2.4	14
125	On the spatio-temporal behavior of magnetohydrodynamic turbulence in a magnetized plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	20
126	On the compressibility effect in test particle acceleration by magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	10

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127	Intermittency, coherent structures and dissipation in plasma turbulence. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	77
128	PROPINQUITY OF CURRENT AND VORTEX STRUCTURES: EFFECTS ON COLLISIONLESS PLASMA HEATING. <i>Astrophysical Journal</i> , 2016, 832, 57.	4.5	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.	4.5	54
130	SOLAR WIND COLLISIONAL AGE FROM A GLOBAL MAGNETOHYDRODYNAMICS SIMULATION. <i>Astrophysical Journal</i> , 2016, 821, 34.	4.5	16
131	Local modulation and trapping of energetic particles by coherent magnetic structures. <i>Geophysical Research Letters</i> , 2016, 43, 3620-3627.	4.0	20
132	TURBULENCE AND PROTON- α -ELECTRON HEATING IN KINETIC PLASMA. <i>Astrophysical Journal Letters</i> , 2016, 827, L7.	8.3	43
133	EVOLUTION OF THE MAGNETIC FIELD LINE DIFFUSION COEFFICIENT AND NON-GAUSSIAN STATISTICS. <i>Astrophysical Journal</i> , 2016, 827, 115.	4.5	4
134	FADING CORONAL STRUCTURE AND THE ONSET OF TURBULENCE IN THE YOUNG SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 828, 66.	4.5	69
135	Explosive Particle Dispersion in Plasma Turbulence. <i>Physical Review Letters</i> , 2016, 117, 095101.	7.8	18
136	MAGNETIC FIELD LINE RANDOM WALK IN ISOTROPIC TURBULENCE WITH VARYING MEAN FIELD. <i>Astrophysical Journal</i> , Supplement Series, 2016, 225, 20.	7.7	9
137	Energy cascade and its locality in compressible magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2016, 93, 061102.	2.1	37
138	Ensemble Space-Time Correlation of Plasma Turbulence in the Solar Wind. <i>Physical Review Letters</i> , 2016, 116, 245101.	7.8	25
139	SIMULATIONS OF LATERAL TRANSPORT AND DROPOUT STRUCTURE OF ENERGETIC PARTICLES FROM IMPULSIVE SOLAR FLARES. <i>Astrophysical Journal</i> , 2016, 831, 195.	4.5	25
140	Turbulence Heating Observer α satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	60
141	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 577-630.	8.1	53
142	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , 2016, 204, 187-256.	8.1	139
143	Turbulent dissipation challenge: a community-driven effort. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	42
144	EFFECT OF COHERENT STRUCTURES ON ENERGETIC PARTICLE INTENSITY IN THE SOLAR WIND AT 1 AU. <i>Astrophysical Journal</i> , 2015, 812, 68.	4.5	27

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145	Large-Eddy Simulations of Magnetohydrodynamic Turbulence in Heliophysics and Astrophysics. <i>Space Science Reviews</i> , 2015, 194, 97-137.	8.1	56
146	KINETIC ALFVÉN WAVE GENERATION BY LARGE-SCALE PHASE MIXING. <i>Astrophysical Journal</i> , 2015, 815, 7.	4.5	38
147	TURBULENCE IN THE SOLAR WIND MEASURED WITH COMET TAIL TEST PARTICLES. <i>Astrophysical Journal</i> , 2015, 812, 108.	4.5	13
148	A kinetic model of plasma turbulence. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	136
149	MAGNETIC FIELD LINE RANDOM WALK IN ISOTROPIC TURBULENCE WITH ZERO MEAN FIELD. <i>Astrophysical Journal</i> , 2015, 798, 59.	4.5	15
150	Intermittency, nonlinear dynamics and dissipation in the solar wind and astrophysical plasmas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140154.	3.4	141
151	MULTI-SPACECRAFT MEASUREMENT OF TURBULENCE WITHIN A MAGNETIC RECONNECTION JET. <i>Astrophysical Journal Letters</i> , 2015, 815, L24.	8.3	29
152	Systematic averaging interval effects on solar wind statistics. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 868-879.	2.4	33
153	Intermittent Dissipation and Heating in 3D Kinetic Plasma Turbulence. <i>Physical Review Letters</i> , 2015, 114, 175002.	7.8	110
154	DYNAMICAL FIELD LINE CONNECTIVITY IN MAGNETIC TURBULENCE. <i>Astrophysical Journal</i> , 2015, 806, 233.	4.5	5
155	Multipoint observations of plasma phenomena made in space by Cluster. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	18
156	Anisotropy in solar wind plasma turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140152.	3.4	88
157	TRANSITION FROM KINETIC TO MHD BEHAVIOR IN A COLLISIONLESS PLASMA. <i>Astrophysical Journal</i> , 2015, 811, 112.	4.5	40
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