

# William H Matthaeus

## List of Publications by Year in descending order

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505  
papers

33,011  
citations

2802

94  
h-index

6131

159  
g-index

513  
all docs

513  
docs citations

513  
times ranked

5188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of the Navier-Stokes equations using a lattice-gas Boltzmann method. <i>Physical Review A</i> , 1992, 45, R5339-R5342.	2.5	1,289
2	Measurement of the rugged invariants of magnetohydrodynamic turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1982, 87, 6011-6028.	3.3	811
3	Anisotropy in MHD turbulence due to a mean magnetic field. <i>Journal of Plasma Physics</i> , 1983, 29, 525-547.	2.1	755
4	Observational constraints on the dynamics of the interplanetary magnetic field dissipation range. <i>Journal of Geophysical Research</i> , 1998, 103, 4775-4787.	3.3	658
5	Proton and electron mean free paths: The Palmer consensus revisited. <i>Astrophysical Journal</i> , 1994, 420, 294.	4.5	614
6	Lattice Boltzmann model for simulation of magnetohydrodynamics. <i>Physical Review Letters</i> , 1991, 67, 3776-3779.	7.8	591
7	Evidence for the presence of quasi-two-dimensional nearly incompressible fluctuations in the solar wind. <i>Journal of Geophysical Research</i> , 1990, 95, 20673-20683.	3.3	573
8	Dominant two-dimensional solar wind turbulence with implications for cosmic ray transport. <i>Journal of Geophysical Research</i> , 1996, 101, 2511-2522.	3.3	527
9	Magnetohydrodynamic Turbulence in the Solar Wind. <i>Annual Review of Astronomy and Astrophysics</i> , 1995, 33, 283-325.	24.3	516
10	Nonlinear Collisionless Perpendicular Diffusion of Charged Particles. <i>Astrophysical Journal</i> , 2003, 590, L53-L56.	4.5	430
11	Turbulent magnetic reconnection. <i>Physics of Fluids</i> , 1986, 29, 2513.	1.4	365
12	The influence of a mean magnetic field on three-dimensional magnetohydrodynamic turbulence. <i>Journal of Fluid Mechanics</i> , 1994, 280, 95-117.	3.4	335
13	Origin and evolution of fluctuations in the solar wind: Helios observations and Helios-Voyager comparisons. <i>Journal of Geophysical Research</i> , 1987, 92, 12023-12035.	3.3	321
14	Evolution of turbulent magnetic fluctuation power with heliospheric distance. <i>Journal of Geophysical Research</i> , 1996, 101, 17093-17107.	3.3	315
15	Nearly incompressible fluids. II: Magnetohydrodynamics, turbulence, and waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 257-273.	1.6	312
16	Coronal Heating by Magnetohydrodynamic Turbulence Driven by Reflected Low-Frequency Waves. <i>Astrophysical Journal</i> , 1999, 523, L93-L96.	4.5	297
17	Coherent structures, intermittent turbulence, and dissipation in high-temperature plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	290
18	SELECTIVE DECAY HYPOTHESIS AT HIGH MECHANICAL AND MAGNETIC REYNOLDS NUMBERS*. <i>Annals of the New York Academy of Sciences</i> , 1980, 357, 203-222.	3.8	285

#	ARTICLE	IF	CITATIONS
19	Heating of the low-latitude solar wind by dissipation of turbulent magnetic fluctuations. <i>Journal of Geophysical Research</i> , 2001, 106, 8253-8272.	3.3	256
20	The nature and evolution of magnetohydrodynamic fluctuations in the solar wind: Voyager observations. <i>Journal of Geophysical Research</i> , 1987, 92, 11021-11040.	3.3	225
21	MHD-driven Kinetic Dissipation in the Solar Wind and Corona. <i>Astrophysical Journal</i> , 2000, 537, 1054-1062.	4.5	224
22	Anisotropy in Fast and Slow Solar Wind Fluctuations. <i>Astrophysical Journal</i> , 2005, 635, L181-L184.	4.5	220
23	Test Particle Energization by Current Sheets and Nonuniform Fields in Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2004, 617, 667-679.	4.5	217
24	STATISTICAL ANALYSIS OF DISCONTINUITIES IN SOLAR WIND <i>ACE</i> DATA AND COMPARISON WITH INTERMITTENT MHD TURBULENCE. <i>Astrophysical Journal</i> , 2009, 691, L111-L114.	4.5	217
25	Turbulence, Spatial Transport, and Heating of the Solar Wind. <i>Physical Review Letters</i> , 1999, 82, 3444-3447.	7.8	212
26	Spatial Structure and Field-Line Diffusion in Transverse Magnetic Turbulence. <i>Physical Review Letters</i> , 1995, 75, 2136-2139.	7.8	209
27	Anisotropic three-dimensional MHD turbulence. <i>Journal of Geophysical Research</i> , 1996, 101, 7619-7629.	3.3	209
28	Perpendicular Transport of Charged Particles in Composite Model Turbulence: Recovery of Diffusion. <i>Astrophysical Journal</i> , 2002, 578, L117-L120.	4.5	207
29	Models of inertial range spectra of interplanetary magnetohydrodynamic turbulence. <i>Journal of Geophysical Research</i> , 1990, 95, 14881-14892.	3.3	206
30	Magnetic Reconnection in Two-Dimensional Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2009, 102, 115003.	7.8	205
31	Low-Frequency Noise in the Interplanetary Magnetic Field. <i>Physical Review Letters</i> , 1986, 57, 495-498.	7.8	204
32	Colloquium: Magnetohydrodynamic turbulence and time scales in astrophysical and space plasmas. <i>Reviews of Modern Physics</i> , 2004, 76, 1015-1035.	45.6	197
33	Spatial Correlation of Solar-Wind Turbulence from Two-Point Measurements. <i>Physical Review Letters</i> , 2005, 95, 231101.	7.8	187
34	Who Needs Turbulence?. <i>Space Science Reviews</i> , 2011, 160, 145-168.	8.1	187
35	A TURBULENCE-DRIVEN MODEL FOR HEATING AND ACCELERATION OF THE FAST WIND IN CORONAL HOLES. <i>Astrophysical Journal Letters</i> , 2010, 708, L116-L120.	8.3	186
36	Transport and turbulence modeling of solar wind fluctuations. <i>Journal of Geophysical Research</i> , 1990, 95, 10291-10311.	3.3	182

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37	The equations of reduced magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 1992, 48, 85-100.	2.1	182
38	Evaluation of Magnetic Helicity in Homogeneous Turbulence. <i>Physical Review Letters</i> , 1982, 48, 1256-1259.	7.8	177
39	Density fluctuation spectra in magnetohydrodynamic turbulence. <i>Journal of Geophysical Research</i> , 1987, 92, 282-284.	3.3	177
40	Turbulent relaxation processes in magnetohydrodynamics. <i>Physics of Fluids</i> , 1986, 29, 3261.	1.4	176
41	Intermittent MHD structures and classical discontinuities. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	175
42	Turbulence transport throughout the heliosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	174
43	EVIDENCE FOR INHOMOGENEOUS HEATING IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2011, 727, L11.	8.3	174
44	EMPIRICAL CONSTRAINTS ON PROTON AND ELECTRON HEATING IN THE FAST SOLAR WIND. <i>Astrophysical Journal</i> , 2009, 702, 1604-1614.	4.5	170
45	Relaxation in two dimensions and the $\tilde{\text{sinh}}\text{-Poisson}^{\text{TM}}$ equation. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 3-6.	1.6	164
46	Waves and turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1992, 97, 17189-17194.	3.3	163
47	Rapid magnetic reconnection caused by finite amplitude fluctuations. <i>Physics of Fluids</i> , 1985, 28, 303-307.	1.4	161
48	Velocity shear generation of solar wind turbulence. <i>Journal of Geophysical Research</i> , 1992, 97, 17115-17130.	3.3	159
49	Subdiffusive transport of charged particles perpendicular to the large scale magnetic field. <i>Geophysical Research Letters</i> , 2002, 29, 7-1.	4.0	159
50	Intermittent Dissipation at Kinetic Scales in Collisionless Plasma Turbulence. <i>Physical Review Letters</i> , 2012, 109, 195001.	7.8	155
51	Phenomenology for the decay of energy-containing eddies in homogeneous MHD turbulence. <i>Physics of Fluids</i> , 1995, 7, 2886-2904.	4.0	154
52	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
53	Turbulent Generation of Outward-Travelling Interplanetary Alfvénic Fluctuations. <i>Physical Review Letters</i> , 1983, 51, 1484-1487.	7.8	150
54	The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 69-82.	1.6	148

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55	Coronal Heating Distribution Due to Low-Frequency, Wave-driven Turbulence. <i>Astrophysical Journal</i> , 2002, 575, 571-577.	4.5	145
56	Contribution of Cyclotron-resonant Damping to Kinetic Dissipation of Interplanetary Turbulence. <i>Astrophysical Journal</i> , 1998, 507, L181-L184.	4.5	144
57	Turbulent Heating of the Solar Wind by Newborn Interstellar Pickup Protons. <i>Astrophysical Journal</i> , 2006, 638, 508-517.	4.5	144
58	Nonlinear Parallel and Perpendicular Diffusion of Charged Cosmic Rays in Weak Turbulence. <i>Astrophysical Journal</i> , 2004, 616, 617-629.	4.5	141
59	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
60	Comparison of spectral method and lattice Boltzmann simulations of two-dimensional hydrodynamics. <i>Physics of Fluids</i> , 1994, 6, 1285-1298.	4.0	140
61	The radial and latitudinal dependence of the cosmic ray diffusion tensor in the heliosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 2085-2097.	3.3	140
62	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
63	A kinetic model of plasma turbulence. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	136
64	Test particle acceleration in turbulent reconnecting magnetic fields. <i>Journal of Geophysical Research</i> , 1988, 93, 14383-14400.	3.3	134
65	THE TRANSPORT OF LOW-FREQUENCY TURBULENCE IN ASTROPHYSICAL FLOWS. I. GOVERNING EQUATIONS. <i>Astrophysical Journal</i> , 2012, 745, 35.	4.5	133
66	Perpendicular Diffusion and Drift at Intermediate Cosmic-Ray Energies. <i>Astrophysical Journal</i> , 1997, 485, 655-659.	4.5	132
67	INTERMITTENT HEATING IN SOLAR WIND AND KINETIC SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2013, 763, L30.	8.3	130
68	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	129
69	Perpendicular diffusion coefficient for charged particles of arbitrary energy. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	125
70	Spectral Properties and Length Scales of Two-dimensional Magnetic Field Models. <i>Astrophysical Journal</i> , 2007, 667, 956-962.	4.5	124
71	Extended inertial range phenomenology of magnetohydrodynamic turbulence. <i>Physics of Fluids B</i> , 1989, 1, 1929-1931.	1.7	123
72	Stationarity of magnetohydrodynamic fluctuations in the solar wind. <i>Journal of Geophysical Research</i> , 1982, 87, 10347-10354.	3.3	120

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73	Analytic Forms of the Perpendicular Diffusion Coefficient in Magnetostatic Turbulence. <i>Astrophysical Journal</i> , 2004, 604, 675-686.	4.5	118
74	Energy transfer, pressure tensor, and heating of kinetic plasma. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	115
75	Particle Acceleration by Turbulent Magnetohydrodynamic Reconnection. <i>Physical Review Letters</i> , 1984, 53, 1449-1452.	7.8	114
76	Evolution of energy-containing turbulent eddies in the solar wind. <i>Journal of Geophysical Research</i> , 1994, 99, 19267.	3.3	113
77	Statistics of magnetic reconnection in two-dimensional magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	113
78	Intermittency and Local Heating in the Solar Wind. <i>Physical Review Letters</i> , 2012, 108, 261102.	7.8	112
79	Intermittent Dissipation and Heating in 3D Kinetic Plasma Turbulence. <i>Physical Review Letters</i> , 2015, 114, 175002.	7.8	110
80	Nearly incompressible magnetohydrodynamics at low Mach number. <i>Physics of Fluids</i> , 1988, 31, 3634.	1.4	109
81	Kinetic dissipation and anisotropic heating in a turbulent collisionless plasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	109
82	Decaying, two-dimensional, Navier-Stokes turbulence at very long times. <i>Physica D: Nonlinear Phenomena</i> , 1991, 51, 531-538.	2.8	108
83	Selective decay and coherent vortices in two-dimensional incompressible turbulence. <i>Physical Review Letters</i> , 1991, 66, 2731-2734.	7.8	107
84	Turbulent Heating of the Distant Solar Wind by Interstellar Pickup Protons. <i>Astrophysical Journal</i> , 2003, 592, 564-573.	4.5	104
85	Statistical association of discontinuities and reconnection in magnetohydrodynamic turbulence. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	103
86	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	27.8	103
87	Anisotropic Modal Energy Transfer in Interstellar Turbulence. <i>Astrophysical Journal</i> , 1995, 447, 706.	4.5	102
88	Nearly incompressible magnetohydrodynamics, pseudosound, and solar wind fluctuations. <i>Journal of Geophysical Research</i> , 1991, 96, 5421-5435.	3.3	99
89	SOLAR WIND MODELING WITH TURBULENCE TRANSPORT AND HEATING. <i>Astrophysical Journal</i> , 2011, 727, 84.	4.5	99
90	Dissipation of pickup-induced waves: A solar wind temperature increase in the outer heliosphere?. <i>Journal of Geophysical Research</i> , 1995, 100, 17059.	3.3	98

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91	Depression of Nonlinearity in Decaying Isotropic MHD Turbulence. <i>Physical Review Letters</i> , 2008, 100, 095005.	7.8	96
92	Rapid Alignment of Velocity and Magnetic Field in Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2008, 100, 085003.	7.8	96
93	Magnetic reconnection as an element of turbulence. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 675-695.	1.3	96
94	An interplanetary magnetic field ensemble at 1 AU. <i>Journal of Geophysical Research</i> , 1986, 91, 59-69.	3.3	95
95	Scaling of Anisotropy in Hydromagnetic Turbulence. <i>Physical Review Letters</i> , 1998, 81, 2056-2059.	7.8	95
96	THREE-FLUID, THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC SOLAR WIND MODEL WITH EDDY VISCOSITY AND TURBULENT RESISTIVITY. <i>Astrophysical Journal</i> , 2014, 788, 43.	4.5	95
97	Local anisotropy in incompressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2001, 8, 2673-2681.	1.9	94
98	Kinetic Signatures and Intermittent Turbulence in the Solar Wind Plasma. <i>Physical Review Letters</i> , 2012, 108, 261103.	7.8	93
99	Nonlinear evolution of the sheet pinch. <i>Journal of Plasma Physics</i> , 1981, 25, 11-41.	2.1	92
100	Parallel and Perpendicular Transport of Heliospheric Cosmic Rays in an Improved Dynamical Turbulence Model. <i>Astrophysical Journal</i> , 2006, 642, 230-243.	4.5	91
101	SPECTRAL INDICES FOR MULTI-DIMENSIONAL INTERPLANETARY TURBULENCE AT 1 AU. <i>Astrophysical Journal</i> , 2009, 692, 684-693.	4.5	89
102	Wave-driven Turbulent Coronal Heating in Open Field Line Regions: Nonlinear Phenomenological Model. <i>Astrophysical Journal</i> , 2001, 548, 482-491.	4.5	89
103	Trapping of Solar Energetic Particles by the Small-Scale Topology of Solar Wind Turbulence. <i>Astrophysical Journal</i> , 2003, 597, L169-L172.	4.5	88
104	Electron and proton heating by solar wind turbulence. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	88
105	Anisotropy in solar wind plasma turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140152.	3.4	88
106	Evidence for weak MHD turbulence in the middle magnetosphere of Jupiter. <i>Astronomy and Astrophysics</i> , 2002, 386, 699-708.	5.1	86
107	Suppression of Particle Drifts by Turbulence. <i>Astrophysical Journal</i> , 2007, 670, 1149-1158.	4.5	86
108	Turbulence analysis of the Jovian upstream $\tilde{\omega}$ wave phenomenon. <i>Journal of Geophysical Research</i> , 1983, 88, 5581-5593.	3.3	85

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109	Understanding coronal heating and solar wind acceleration: Case for in situ near-Sun measurements. <i>Reviews of Geophysics</i> , 2007, 45, .	23.0	85
110	Non-WKB evolution of solar wind fluctuations: A turbulence modeling approach. <i>Geophysical Research Letters</i> , 1989, 16, 755-758.	4.0	84
111	Transport of solar wind fluctuations: A two-component model. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	84
112	Lattice Boltzmann magnetohydrodynamics. <i>Physics of Plasmas</i> , 1994, 1, 1850-1867.	1.9	83
113	Shear-driven Transition to Isotropically Turbulent Solar Wind Outside the Alfvén Critical Zone. <i>Astrophysical Journal</i> , 2020, 902, 94.	4.5	83
114	Structure of correlation tensors in homogeneous anisotropic turbulence. <i>Physical Review A</i> , 1981, 24, 2135-2144.	2.5	80
115	PROTON KINETIC EFFECTS IN VLASOV AND SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2014, 781, L27.	8.3	80
116	Anisotropy of the Taylor scale and the correlation scale in plasma sheet and solar wind magnetic field fluctuations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	79
117	Inhomogeneous kinetic effects related to intermittent magnetic discontinuities. <i>Physical Review E</i> , 2012, 86, 066405.	2.1	78
118	ASSOCIATION OF SUPRATHERMAL PARTICLES WITH COHERENT STRUCTURES AND SHOCKS. <i>Astrophysical Journal Letters</i> , 2013, 776, L8.	8.3	78
119	Relaxation processes in a low-order three-dimensional magnetohydrodynamics model. <i>Physics of Fluids B</i> , 1991, 3, 1848-1864.	1.7	77
120	Intermittency, coherent structures and dissipation in plasma turbulence. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	77
121	Magnetic helicity of the Parker field. <i>Astrophysical Journal</i> , 1987, 315, 700.	4.5	77
122	Long-term variations of interplanetary magnetic field spectra with implications for cosmic ray modulation. <i>Journal of Geophysical Research</i> , 1993, 98, 3585-3603.	3.3	76
123	Separation of Magnetic Field Lines in Two-Component Turbulence. <i>Astrophysical Journal</i> , 2004, 614, 420-434.	4.5	76
124	Transport of cross helicity and radial evolution of Alfvénicity in the solar wind. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	74
125	Nonlinear guiding center theory of perpendicular diffusion: General properties and comparison with observation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	74
126	Numerical Investigation of Perpendicular Diffusion of Charged Test Particles in Weak Magnetostatic Slab Turbulence. <i>Astrophysical Journal</i> , 2000, 538, 192-202.	4.5	74



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127	Long-time states of inverse cascades in the presence of a maximum length scale. <i>Journal of Plasma Physics</i> , 1983, 30, 479-493.	2.1	73
128	Phenomenology of hydromagnetic turbulence in a uniformly expanding medium. <i>Journal of Plasma Physics</i> , 1996, 56, 659-675.	2.1	72
129	FADING CORONAL STRUCTURE AND THE ONSET OF TURBULENCE IN THE YOUNG SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 828, 66.	4.5	69
130	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	7.8	69
131	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	4.0	69
132	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
133	A Reduced Magnetohydrodynamic Model of Coronal Heating in Open Magnetic Regions Driven by Reflected Low-Frequency Alfvén Waves. <i>Astrophysical Journal</i> , 2001, 551, 565-575.	4.5	68
134	Radial evolution of cross helicity in high-latitude solar wind. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	67
135	von Kármán self-preservation hypothesis for magnetohydrodynamic turbulence and its consequences for universality. <i>Journal of Fluid Mechanics</i> , 2012, 697, 296-315.	3.4	67
136	Partial Variance of Increments Method in Solar Wind Observations and Plasma Simulations. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	67
137	Nearly incompressible hydrodynamics and heat conduction. <i>Physical Review Letters</i> , 1990, 64, 1243-1246.	7.8	66
138	Scaling of field-line random walk in model solar wind fluctuations. <i>Geophysical Research Letters</i> , 1996, 23, 965-968.	4.0	65
139	Reconnection in two dimensions: Localization of vorticity and current near magnetic X-points. <i>Geophysical Research Letters</i> , 1982, 9, 660-663.	4.0	63
140	Energy transfer channels and turbulence cascade in Vlasov-Maxwell turbulence. <i>Physical Review E</i> , 2017, 95, 061201.	2.1	63
141	Energy spectrum of turbulent fluctuations in boundary driven reduced magnetohydrodynamics. <i>Physics of Plasmas</i> , 2003, 10, 3584-3591.	1.9	62
142	Test Particle Acceleration in Three-dimensional Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2003, 597, L81-L84.	4.5	62
143	Anisotropic Third-Moment Estimates of the Energy Cascade in Solar Wind Turbulence Using Multispacecraft Data. <i>Physical Review Letters</i> , 2011, 107, 165001.	7.8	61
144	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

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145	Waves, structures, and the appearance of two-component turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1998, 103, 23705-23715.	3.3	60
146	Morphology, dynamics and plasma parameters of plumes and inter-plume regions in solar coronal holes. <i>Astronomy and Astrophysics Review</i> , 2011, 19, 1.	25.5	60
147	Turbulence Heating Observer " satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	60
148	Power spectral signatures of interplanetary corotating and transient flows. <i>Journal of Geophysical Research</i> , 1984, 89, 3747-3761.	3.3	59
149	Navier-Stokes relaxation to sinh-Poisson states at finite Reynolds numbers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2207-2216.	1.6	59
150	THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC MODELING OF THE SOLAR WIND INCLUDING PICKUP PROTONS AND TURBULENCE TRANSPORT. <i>Astrophysical Journal</i> , 2012, 754, 40.	4.5	59
151	Scaling of spectral anisotropy with magnetic field strength in decaying magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 1998, 5, 4235-4242.	1.9	58
152	A two-component phenomenology for homogeneous magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2006, 13, 042306.	1.9	58
153	The application of spectral methods in simulating compressible fluid and magnetofluid turbulence. <i>Computer Physics Communications</i> , 1993, 74, 18-40.	7.5	57
154	TURBULENT HEATING OF THE DISTANT SOLAR WIND BY INTERSTELLAR PICKUP PROTONS IN A DECELERATING FLOW. <i>Astrophysical Journal</i> , 2010, 719, 716-721.	4.5	57
155	von Kármán Energy Decay and Heating of Protons and Electrons in a Kinetic Turbulent Plasma. <i>Physical Review Letters</i> , 2013, 111, 121105.	7.8	57
156	Low-Frequency Waves and Turbulence in an Open Magnetic Region: Timescales and Heating Efficiency. <i>Astrophysical Journal</i> , 2003, 597, 1097-1105.	4.5	57
157	Structure of the electromagnetic field in three-dimensional Hall magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2006, 13, 042307.	1.9	56
158	RANDOM BALLISTIC INTERPRETATION OF NONLINEAR GUIDING CENTER THEORY. <i>Astrophysical Journal Letters</i> , 2012, 747, L34.	8.3	56
159	Large-Eddy Simulations of Magnetohydrodynamic Turbulence in Heliophysics and Astrophysics. <i>Space Science Reviews</i> , 2015, 194, 97-137.	8.1	56
160	Pathways to Dissipation in Weakly Collisional Plasmas. <i>Astrophysical Journal</i> , 2020, 891, 101.	4.5	56
161	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
162	Statistical properties of ideal three-dimensional magnetohydrodynamics. <i>Physics of Fluids B</i> , 1990, 2, 1979-1988.	1.7	55

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163	Hybrid Vlasov-Maxwell simulations of two-dimensional turbulence in plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	55
164	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
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