

# Sandra C Chapman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7206360/publications.pdf>

Version: 2024-02-01

226  
papers

6,162  
citations

100601

38  
h-index

116156

66  
g-index

248  
all docs

248  
docs citations

248  
times ranked

4586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variation of Geomagnetic Index Empirical Distribution and Burst Statistics Across Successive Solar Cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, e2021JA029986.	0.8	4
2	First observation and interpretation of spontaneous collective radiation from fusion-born ions in a stellarator plasma. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 085008.	0.9	5
3	Magnetic Topology of Actively Evolving and Passively Convecting Structures in the Turbulent Solar Wind. <i>Physical Review Letters</i> , 2021, 126, 125101.	2.9	6
4	Network community structure of substorms using SuperMAG magnetometers. <i>Nature Communications</i> , 2021, 12, 1842.	5.8	10
5	Density dependence of ion cyclotron emission from deuterium plasmas in the large helical device. <i>Nuclear Fusion</i> , 2021, 61, 066023.	1.6	6
6	The Sun's Magnetic (Hale) Cycle and 27 Day Recurrences in the aa Geomagnetic Index. <i>Astrophysical Journal</i> , 2021, 917, 54.	1.6	2
7	Wavelet and Network Analysis of Magnetic Field Variation and Geomagnetically Induced Currents During Large Storms. <i>Space Weather</i> , 2021, 19, e2021SW002772.	1.3	5
8	Response to "Limitations in the Hilbert Transform Approach to Locating Solar Cycle Terminators" by R. Booth. <i>Solar Physics</i> , 2021, 296, 1.	1.0	6
9	Temperature variability implies greater economic damages from climate change. <i>Nature Communications</i> , 2020, 11, 5028.	5.8	18
10	Overlapping Magnetic Activity Cycles and the Sunspot Number: Forecasting Sunspot Cycle 25 Amplitude. <i>Solar Physics</i> , 2020, 295, 1.	1.0	55
11	Quantifying the Solar Cycle Modulation of Extreme Space Weather. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087795.	1.5	27
12	AD <sub>ST</sub> , and Their SuperMAG Counterparts: The Effect of Improved Spatial Resolution in Geomagnetic Indices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027828.	0.8	19
13	Comparing theory and simulation of ion cyclotron emission from energetic ion populations with spherical shell and ring-beam distributions in velocity-space. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 055003.	0.9	9
14	Timing Terminators: Forecasting Sunspot Cycle 25 Onset. <i>Solar Physics</i> , 2020, 295, 1.	1.0	22
15	Using the Index Over the Last 14 Solar Cycles to Characterize Extreme Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086524.	1.5	34
16	Origin of ion cyclotron emission at the proton cyclotron frequency from the core of deuterium plasmas in the ASDEX-Upgrade tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 095022.	0.9	8
17	High frequency Alfvén eigenmodes detected with ion-cyclotron-emission diagnostics during NBI and ICRF heated plasmas on the ASDEX Upgrade tokamak. <i>Nuclear Fusion</i> , 2020, 60, 126043.	1.6	14
18	Trends in Winter Warm Spells in the Central England Temperature Record. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1069-1076.	0.6	12

#	ARTICLE	IF	CITATIONS
19	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	1.6	38
20	Interpreting observations of ion cyclotron emission from large helical device plasmas with beam-injected ion populations. Nuclear Fusion, 2019, 59, 096013.	1.6	18
21	Interpretation of suprathermal emission at deuteron cyclotron harmonics from deuterium plasmas heated by neutral beam injection in the KSTAR tokamak. Nuclear Fusion, 2019, 59, 106021.	1.6	15
22	Warming Trends in Summer Heatwaves. Geophysical Research Letters, 2019, 46, 1634-1640.	1.5	38
23	Interpretation of core ion cyclotron emission driven by sub-Alfvénic beam-injected ions via magnetoacoustic cyclotron instability. Nuclear Fusion, 2019, 59, 086032.	1.6	18
24	Directed Network of Substorms Using SuperMAG Ground-Based Magnetometer Data. Geophysical Research Letters, 2019, 46, 6268-6278.	1.5	8
25	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	1.6	87
26	Real-time plasma state monitoring and supervisory control on TCV. Nuclear Fusion, 2019, 59, 026017.	1.6	13
27	Overview of new MAST physics in anticipation of first results from MAST Upgrade. Nuclear Fusion, 2019, 59, 112011.	1.6	30
28	Core plasma ion cyclotron emission driven by fusion-born ions. Nuclear Fusion, 2019, 59, 014001.	1.6	12
29	Particle acceleration during merging-compression plasma start-up in the Mega Amp Spherical Tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 025013.	0.9	5
30	Stellar flare oscillations: evidence for oscillatory reconnection and evolution of MHD modes. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2842-2851.	1.6	30
31	Intrinsic ELMing in ASDEX Upgrade and global control system-plasma self-entrainment. Nuclear Fusion, 2018, 58, 126003.	1.6	2
32	The Dependence of Solar Wind Burst Size on Burst Duration and Its Invariance Across Solar Cycles 23 and 24. Journal of Geophysical Research: Space Physics, 2018, 123, 7196-7210.	0.8	4
33	Storylines: an alternative approach to representing uncertainty in physical aspects of climate change. Climatic Change, 2018, 151, 555-571.	1.7	317
34	Reproducible Aspects of the Climate of Space Weather Over the Last Five Solar Cycles. Space Weather, 2018, 16, 1128-1142.	1.3	13
35	Nonlinear wave interactions generate high-harmonic cyclotron emission from fusion-born protons during a KSTAR ELM crash. Nuclear Fusion, 2018, 58, 096027.	1.6	19
36	Control system-plasma synchronization and naturally occurring edge localized modes in a tokamak. Physics of Plasmas, 2018, 25, 062511.	0.7	7

#	ARTICLE	IF	CITATIONS
37	Observations and modelling of ion cyclotron emission observed in JET plasmas using a sub-harmonic arc detection system during ion cyclotron resonance heating. Nuclear Fusion, 2018, 58, 096020.	1.6	14
38	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	6.5	73
39	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution. Nuclear Fusion, 2017, 57, 102014.	1.6	23
40	Solar Wind Plasma Parameter Variability Across Solar Cycles 23 and 24: From Turbulence to Extremes. Journal of Geophysical Research: Space Physics, 2017, 122, 9824-9840.	0.8	8
41	The global build-up to intrinsic ELM bursts and comparison with pellet triggered ELMs seen in JET. Nuclear Fusion, 2017, 57, 022017.	1.6	3
42	Extreme-value statistics from Lagrangian convex hull analysis for homogeneous turbulent Boussinesq convection and MHD convection. New Journal of Physics, 2017, 19, 065006.	1.2	8
43	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	1.6	150
44	Quantifying Fusion Born Ion Populations in Magnetically Confined Plasmas using Ion Cyclotron Emission. Physical Review Letters, 2017, 118, 105001.	2.9	28
45	Overview of recent physics results from MAST. Nuclear Fusion, 2017, 57, 102007.	1.6	16
46	Stimulated Emission of Fast Alfvén Waves within Magnetically Confined Fusion Plasmas. Physical Review Letters, 2017, 118, 185001.	2.9	17
47	Characterizing the ionospheric current pattern response to southward and northward IMF turnings with dynamical SuperMAG correlation networks. Journal of Geophysical Research: Space Physics, 2017, 122, 1883-1902.	0.8	16
48	Sub-microsecond temporal evolution of edge density during edge localized modes in KSTAR tokamak plasmas inferred from ion cyclotron emission. Nuclear Fusion, 2017, 57, 124004.	1.6	28
49	Solar cycle variation of the statistical distribution of the solar wind $\beta$ parameter and its constituent variables. Geophysical Research Letters, 2016, 43, 5563-5570.	1.5	8
50	25 Years of Self-organized Criticality: Concepts and Controversies. Space Science Reviews, 2016, 198, 3-44.	3.7	132
51	Robust statistical properties of the size of large burst events in AE. Geophysical Research Letters, 2015, 42, 9197-9202.	1.5	9
52	The global build-up to intrinsic edge localized mode bursts seen in divertor full flux loops in JET. Physics of Plasmas, 2015, 22, .	0.7	4
53	Velocity space evolution of a minority energetic electron population undergoing the anomalous Doppler instability. Physics of Plasmas, 2015, 22, 112119.	0.7	2
54	Network analysis of geomagnetic substorms using the SuperMAG database of ground-based magnetometer stations. Journal of Geophysical Research: Space Physics, 2015, 120, 7774-7784.	0.8	20

#	ARTICLE	IF	CITATIONS
55	Limits to the quantification of local climate change. <i>Environmental Research Letters</i> , 2015, 10, 094018.	2.2	7
56	A quantitative model for heat pulse propagation across large helical device plasmas. <i>Physics of Plasmas</i> , 2015, 22, 062308.	0.7	5
57	Overview of the JET results. <i>Nuclear Fusion</i> , 2015, 55, 104001.	1.6	50
58	MULTI-SPACECRAFT MEASUREMENT OF TURBULENCE WITHIN A MAGNETIC RECONNECTION JET. <i>Astrophysical Journal Letters</i> , 2015, 815, L24.	3.0	29
59	Electron Kinetics Inferred from Observations of Microwave Bursts During Edge Localized Modes in the Mega-Amp Spherical Tokamak. <i>Physical Review Letters</i> , 2015, 114, 125004.	2.9	34
60	Fast particle-driven ion cyclotron emission (ICE) in tokamak plasmas and the case for an ICE diagnostic in ITER. <i>Nuclear Fusion</i> , 2015, 55, 043013.	1.6	42
61	Dissipation and heating in solar wind turbulence: from the macro to the micro and back again. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140155.	1.6	126
62	Overview of MAST results. <i>Nuclear Fusion</i> , 2015, 55, 104008.	1.6	16
63	Linear and nonlinear physics of the magnetoacoustic cyclotron instability of fusion-born ions in relation to ion cyclotron emission. <i>Physics of Plasmas</i> , 2014, 21, 012106.	0.7	38
64	Time-resonant tokamak plasma edge instabilities?. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 075017.	0.9	8
65	Plasma blob formation by ion kinetic Kelvin-Helmholtz and interchange instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 035012.	0.9	7
66	Transitions to improved confinement regimes induced by changes in heating in zero-dimensional models for tokamak plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	4
67	Relationship of edge localized mode burst times with divertor flux loop signal phase in JET. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	7
68	Magnetic Reconnection and Intermittent Turbulence in the Solar Wind. <i>Physical Review Letters</i> , 2014, 112, .	2.9	124
69	PROTON KINETIC EFFECTS IN VLASOV AND SOLAR WIND TURBULENCE. <i>Astrophysical Journal Letters</i> , 2014, 781, L27.	3.0	80
70	ION PRE-ACCELERATION IN FULLY SELF-CONSISTENT PARTICLE-IN-CELL SIMULATIONS OF SUPERCRITICAL PERPENDICULAR REFORMING SHOCKS IN MULTIPLE ION SPECIES PLASMAS. <i>Astrophysical Journal</i> , 2014, 791, 26.	1.6	10
71	NONLINEAR AND LINEAR TIMESCALES NEAR KINETIC SCALES IN SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2014, 790, 155.	1.6	50
72	ANISOTROPIC INTERMITTENCY OF MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal Letters</i> , 2014, 783, L27.	3.0	27

#	ARTICLE	IF	CITATIONS
73	Plasma heating by ion gyro-scale blobs in the kinetic and fluid regimes. Plasma Physics and Controlled Fusion, 2013, 55, 055010.	0.9	3
74	Proton Kinetic Effects and Turbulent Energy Cascade Rate in the Solar Wind. Physical Review Letters, 2013, 111, 201101.	2.9	23
75	Identification of Intermittent Multifractal Turbulence in Fully Kinetic Simulations of Magnetic Reconnection. Physical Review Letters, 2013, 110, 205002.	2.9	54
76	Robustness of predator-prey models for confinement regime transitions in fusion plasmas. Physics of Plasmas, 2013, 20, 042302.	0.7	17
77	Coherent structures, intermittent turbulence, and dissipation in high-temperature plasmas. Physics of Plasmas, 2013, 20, .	0.7	290
78	Identifying low-dimensional dynamics in type-I edge-localised-mode processes in JET plasmas. Physics of Plasmas, 2013, 20, 042306.	0.7	8
79	Self-consistent nonlinear kinetic simulations of the anomalous Doppler instability of suprathermal electrons in plasmas. Physics of Plasmas, 2013, 20, 102122.	0.7	6
80	Particle-in-cell simulations of the magnetoacoustic cyclotron instability of fusion-born alpha-particles in tokamak plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 065003.	0.9	23
81	INTERMITTENT HEATING IN SOLAR WIND AND KINETIC SIMULATIONS. Astrophysical Journal Letters, 2013, 763, L30.	3.0	130
82	Modelling the measured local time evolution of strongly nonlinear heat pulses in the Large Helical Device. Plasma Physics and Controlled Fusion, 2013, 55, 115009.	0.9	6
83	Mapping climate change in European temperature distributions. Environmental Research Letters, 2013, 8, 034031.	2.2	29
84	On estimating local long-term climate trends. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120287.	1.6	11
85	ENHANCED MAGNETIC COMPRESSIBILITY AND ISOTROPIC SCALE INVARIANCE AT SUB-ION LARMOR SCALES IN SOLAR WIND TURBULENCE. Astrophysical Journal, 2013, 763, 10.	1.6	135
86	In-Situ Spacecraft Particle Autocorrelation and Cross-Correlation- Theory and Practice. Geophysical Monograph Series, 2013, , 319-324.	0.1	0
87	Generation of residual energy in the turbulent solar wind. Physics of Plasmas, 2012, 19, .	0.7	12
88	Nonaxisymmetric Anisotropy of Solar Wind Turbulence as a Direct Test for Models of Magnetohydrodynamic Turbulence. Physical Review Letters, 2012, 108, 085001.	2.9	15
89	Intermittent Dissipation at Kinetic Scales in Collisionless Plasma Turbulence. Physical Review Letters, 2012, 109, 195001.	2.9	155
90	Transport and evolution of ion gyro-scale plasma blobs in perpendicular magnetic fields. Plasma Physics and Controlled Fusion, 2012, 54, 065005.	0.9	12

#	ARTICLE	IF	CITATIONS
91	TURBULENT CHARACTERISTICS IN THE INTENSITY FLUCTUATIONS OF A SOLAR QUIESCENT PROMINENCE OBSERVED BY THE HINODE SOLAR OPTICAL TELESCOPE. <i>Astrophysical Journal</i> , 2012, 745, 185.	1.6	24
92	Impact of measurement uncertainties on universal scaling of MHD turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 951-955.	1.6	11
93	Fast reconfiguration of high-frequency brain networks in response to surprising changes in auditory input. <i>Journal of Neurophysiology</i> , 2012, 107, 1421-1430.	0.9	36
94	Kinetic Signatures and Intermittent Turbulence in the Solar Wind Plasma. <i>Physical Review Letters</i> , 2012, 108, 261103.	2.9	93
95	On Self-Similar and Multifractal Models for the Scaling of Extreme Bursty Fluctuations in Space Plasmas. <i>Geophysical Monograph Series</i> , 2012, , 299-313.	0.1	3
96	Overview of physics results from MAST. <i>Nuclear Fusion</i> , 2011, 51, 094013.	1.6	33
97	Topological isomorphisms of human brain and financial market networks. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 75.	1.2	12
98	Self-consistent kinetic simulations of lower hybrid drift instability resulting in electron current driven by fusion products in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 065006.	0.9	7
99	Use of multi-point analysis and modelling to address cross-scale coupling in space plasmas: Lessons from Cluster. <i>Planetary and Space Science</i> , 2011, 59, 630-638.	0.9	2
100	Scale-free texture of the fast solar wind. <i>Physical Review E</i> , 2011, 84, 065401.	0.8	13
101	Nonaxisymmetric Anisotropy of Solar Wind Turbulence. <i>Physical Review Letters</i> , 2011, 107, 095002.	2.9	33
102	Gyrobunching and wave-particle resonance in the lower hybrid drift instability. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 074019.	0.9	4
103	Increasing Lifetime of Recurrent Sunspot Groups Within the Greenwich Photoheliographic Results. <i>Solar Physics</i> , 2010, 262, 299-313.	1.0	29
104	Electron Current Drive by Fusion-Product-Excited Lower Hybrid Drift Instability. <i>Physical Review Letters</i> , 2010, 105, 255003.	2.9	20
105	Fractal dissipation of small-scale magnetic fluctuations in solar wind turbulence as seen by CLUSTER. , 2010, , .		2
106	The crossover to the $\alpha^2$ -region of solar wind fluctuations. , 2010, , .		0
107	Finite size effects and scaling in solar wind fluctuations. , 2010, , .		0
108	OBSERVATION OF UNIVERSALITY IN THE GENERALIZED SIMILARITY OF EVOLVING SOLAR WIND TURBULENCE AS SEEN BY ULYSSES. <i>Astrophysical Journal</i> , 2009, 695, L185-L188.	1.6	7

#	ARTICLE	IF	CITATIONS
109	SPATIAL CORRELATION OF SOLAR WIND FLUCTUATIONS AND THEIR SOLAR CYCLE DEPENDENCE. <i>Astrophysical Journal</i> , 2009, 690, 734-742.	1.6	27
110	Macroscopic control parameter for avalanche models for bursty transport. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	8
111	Kinetic equation of linear fractional stable motion and applications to modeling the scaling of intermittent bursts. <i>Physical Review E</i> , 2009, 79, 041124.	0.8	26
112	Comment on "Coexistence of Self-Organized Criticality and Intermittent Turbulence in the Solar Corona". <i>Physical Review Letters</i> , 2009, 103, 039501; author reply 039502.	2.9	6
113	Generalized Similarity in Finite Range Solar Wind Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2009, 103, 241101.	2.9	13
114	Pseudononstationarity in the scaling exponents of finite-interval time series. <i>Physical Review E</i> , 2009, 79, 036109.	0.8	11
115	Global Scale-Invariant Dissipation in Collisionless Plasma Turbulence. <i>Physical Review Letters</i> , 2009, 103, 075006.	2.9	186
116	Avalanching systems under intermediate driving rate. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124006.	0.9	6
117	Overview of physics results from MAST. <i>Nuclear Fusion</i> , 2009, 49, 104017.	1.6	36
118	QUANTIFYING THE ANISOTROPY AND SOLAR CYCLE DEPENDENCE OF $\alpha_1$ -SOLAR WIND FLUCTUATIONS OBSERVED BY ADVANCED COMPOSITION EXPLORER. <i>Astrophysical Journal</i> , 2009, 703, 2138-2151.	1.6	16
119	Study of the spectral properties of ELM precursors by means of wavelets. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 095009.	0.9	16
120	Overview of TCV results. <i>Nuclear Fusion</i> , 2008, 48, 034001.	1.6	0
121	The Signature of Evolving Turbulence in Quiet Solar Wind as Seen by Ulysses. <i>Astrophysical Journal</i> , 2008, 679, 862-870.	1.6	18
122	Solar cycle dependence of scaling in solar wind fluctuations. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 445-455.	0.6	16
123	On the extrapolation to ITER of discharges in present tokamaks. <i>Nuclear Fusion</i> , 2007, 47, 1341-1345.	1.6	13
124	Intermittent character of interplanetary magnetic field fluctuations. <i>Physics of Plasmas</i> , 2007, 14, 032901.	0.7	29
125	Mutual information as a tool for identifying phase transitions in dynamical complex systems with limited data. <i>Physical Review E</i> , 2007, 75, 051125.	0.8	36
126	Intermittency, dissipation, and scaling in two-dimensional magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2007, 14, 012301.	0.7	9



#	ARTICLE	IF	CITATIONS
127	Self-Similar Signature of the Active Solar Corona within the Inertial Range of Solar-Wind Turbulence. <i>Physical Review Letters</i> , 2007, 98, 211101.	2.9	36
128	Potential methods for nonlinear slow magnetoacoustic waves in pressure anisotropic high- $\beta^2$ plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 2005-2017.	0.9	1
129	Fusion, space and solar plasmas as complex systems. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, A95-A108.	0.9	24
130	Overview of physics results from MAST. <i>Nuclear Fusion</i> , 2007, 47, S658-S667.	1.6	25
131	On the fractal nature of the magnetic field energy density in the solar wind. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	23
132	Quantifying scaling in the velocity field of the anisotropic turbulent solar wind. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	30
133	Characterization and interpretation of strongly nonlinear phenomena in fusion, space and astrophysical plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, B313-B328.	0.9	24
134	The scaling properties of two-dimensional compressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2006, 13, 012305.	0.7	5
135	Extracting the scaling exponents of a self-affine, non-Gaussian process from a finite-length time series. <i>Physical Review E</i> , 2006, 74, 051122.	0.8	43
136	Surfatron and stochastic acceleration of electrons in astrophysical plasmas. <i>Journal of Plasma Physics</i> , 2005, 71, 127-141.	0.7	2
137	Recurrence plot statistics and the effect of embedding. <i>Physica D: Nonlinear Phenomena</i> , 2005, 200, 171-184.	1.3	111
138	Perpendicular Shock Reformation and Ion Acceleration. <i>Space Science Reviews</i> , 2005, 121, 5-19.	3.7	41
139	Towards Synthesis of Solar Wind and Geomagnetic Scaling Exponents: A Fractional Lévy Motion Model. <i>Space Science Reviews</i> , 2005, 121, 271-284.	3.7	43
140	Scaling collapse and structure functions: identifying self-affinity in finite length time series. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 767-774.	0.6	37
141	Reforming perpendicular shocks in the presence of pickup protons: initial ion acceleration. <i>Annales Geophysicae</i> , 2005, 23, 643-650.	0.6	24
142	Ion acceleration processes at reforming collisionless shocks. <i>Physics of Plasmas</i> , 2005, 12, 012901-012901-8.	0.7	18
143	Compressibility in Solar Wind Plasma Turbulence. <i>Physical Review Letters</i> , 2005, 94, 204502.	2.9	52
144	The scaling properties of dissipation in incompressible isotropic three-dimensional magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2005, 12, 022301.	0.7	18

#	ARTICLE	IF	CITATIONS
145	Scaling and commonality in anomalous fluctuation statistics in models for turbulence and ferromagnetism. <i>Journal of Physics A</i> , 2005, 38, 2289-2297.	1.6	11
146	Mutual information between geomagnetic indices and the solar wind as seen by WIND: Implications for propagation time estimates. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	23
147	Scaling and a Fokker-Planck model for fluctuations in geomagnetic indices and comparison with solar wind $\mu$ as seen by Wind and ACE. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	42
148	Publisher's Note: Erratum: Intermittency, scaling, and the Fokker-Planck approach to fluctuations of the solar wind bulk plasma parameters as seen by the WIND spacecraft [Phys. Rev. E 67, 056404 (2003); Phys. Rev. E 72, 029902(E) (2005)]. <i>Physical Review E</i> , 2005, 72, .	0.8	0
149	INTERMITTENCY AND SELF-SIMILARITY IN "NATURAL PARAMETERS"™ IN SOLAR WIND TURBULENCE. , 2005, , 329-341.		1
150	Robustness and scaling: key observables in the complex dynamic magnetosphere. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B157-B166.	0.9	12
151	Preface: Self-organized criticality and the nonlinear state of collisionless plasmas. <i>Physics of Plasmas</i> , 2004, 11, 1286-1286.	0.7	0
152	Off-axis electron cyclotron heating and the sandpile paradigm for transport in tokamak plasmas. <i>Physics of Plasmas</i> , 2004, 11, 659-665.	0.7	9
153	Scaling, asymmetry and a Fokker-Planck model of the fast and slow solar wind as seen by WIND. <i>Physics of Plasmas</i> , 2004, 11, 1326-1332.	0.7	12
154	Complexity and criticality in fusion, space and astrophysical plasmas. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 607-616.	1.2	4
155	Simulating Thermal Noise. <i>Physica Scripta</i> , 2004, 69, 456-460.	1.2	33
156	Numerical Simulations of Local Shock Reformation and Ion Acceleration in Supernova Remnants. <i>Astrophysical Journal</i> , 2004, 604, 187-195.	1.6	34
157	Identification of a 12-17 d time-scale in X-ray observations of GRS 1915+105. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 340, 851-855.	1.6	9
158	Correction to "Scaling of solar wind $\mu$ and the AU, AL and AE indices as seen by WIND" by B. Hnat, S. C. Chapman, G. Rowlands, N. W. Watkins, and M. P. Freeman. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	4
159	Scaling in long term data sets of geomagnetic indices and solar wind $\mu$ as seen by WIND spacecraft. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	30
160	Intermittency, scaling, and the Fokker-Planck approach to fluctuations of the solar wind bulk plasma parameters as seen by the WIND spacecraft. <i>Physical Review E</i> , 2003, 67, 056404.	0.8	67
161	Self-organization of internal pedestals in a sandpile. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 301-308.	0.9	17
162	Probability distribution functions for ELM bursts in a series of JET tokamak discharges. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 747-758.	0.9	20

#	ARTICLE	IF	CITATIONS
163	Characterising Anomalous Transport in Accretion Disks from X-ray Observations. , 2003, , 423-424.		0
164	Statistical characterisation of full-disk EUV/XUV solar irradiance and correlation with solar activity. Astronomy and Astrophysics, 2003, 409, L17-L20.	2.1	10
165	Comment on "Universal Fluctuations in Correlated Systems": Physical Review Letters, 2002, 89, 208901, author reply 208902.	2.9	19
166	Two dimensional particle-in-cell simulations of the lunar wake. Physics of Plasmas, 2002, 9, 1785-1789.	0.7	43
167	The Influence of Electron Temperature and Magnetic Field Strength on Cosmic-Ray Injection in High Mach Number Shocks. Astrophysical Journal, 2002, 570, 637-646.	1.6	33
168	Scaling of solar wind $\beta$ and the AU, AL and AE indices as seen by WIND. Geophysical Research Letters, 2002, 29, 35-1-35-4.	1.5	29
169	Finite size scaling in the solar wind magnetic field energy density as seen by WIND. Geophysical Research Letters, 2002, 29, 86-1-86-4.	1.5	56
170	Bifurcation to chaos in charged particle orbits in a magnetic reversal with shear field. IEEE Transactions on Plasma Science, 2002, 30, 18-19.	0.6	4
171	Extremum statistics: a framework for data analysis. Nonlinear Processes in Geophysics, 2002, 9, 409-418.	0.6	35
172	Football goal distributions and extremal statistics. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 615-624.	1.2	42
173	Characterising anomalous transport in accretion disks from X-ray observations. Astronomy and Astrophysics, 2002, 385, 693-700.	2.1	16
174	Electron Preacceleration Mechanisms in the Foot Region of High Alfvénic Mach Number Shocks. Astrophysical Journal, 2002, 579, 327-336.	1.6	51
175	2D hybrid simulations of the solar wind interaction with a small scale comet in high Mach number flows. Geophysical Research Letters, 2001, 28, 1115-1118.	1.5	11
176	Particle-in-cell simulations of the lunar wake with high phase space resolution. Geophysical Research Letters, 2001, 28, 219-222.	1.5	34
177	Correction to "Particle-in-cell simulations of the lunar wake with high phase space resolution": Geophysical Research Letters, 2001, 28, 2669-2669.	1.5	7
178	The stability of charged-particle motion in sheared magnetic reversals. Journal of Plasma Physics, 2001, 65, 331-352.	0.7	19
179	Detailed structure and dynamics in particle-in-cell simulations of the lunar wake. Physics of Plasmas, 2001, 8, 4551-4559.	0.7	38
180	Complexity in astropasmas. Astronomy and Geophysics, 2001, 42, 2.22-2.22.	0.1	0

#	ARTICLE	IF	CITATIONS
181	Enhanced phase space diffusion due to chaos in relativistic electron-whistler mode wave particle interactions with applications to Jupiter. <i>Planetary and Space Science</i> , 2001, 49, 395-404.	0.9	5
182	Signatures of dual scaling regimes in a simple avalanche model for magnetospheric activity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1361-1370.	0.6	6
183	Testing the SOC hypothesis for the magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1435-1445.	0.6	27
184	Avalanching and Self-Organised Criticality, a paradigm for geomagnetic activity?. , 2001, 95, 293-307.		43
185	Stochastic pitch angle diffusion due to electron-whistler wave-particle interactions. <i>Physics of Plasmas</i> , 2001, 8, 2953-2962.	0.7	15
186	A simple avalanche model for astrophysical and laboratory confinement systems. <i>Physics of Plasmas</i> , 2001, 8, 1969-1976.	0.7	14
187	Surfatron and Stochastic Acceleration of Electrons at Supernova Remnant Shocks. <i>Physical Review Letters</i> , 2001, 87, 255002.	2.9	80
188	Sandpile Model with Tokamaklike Enhanced Confinement Phenomenology. <i>Physical Review Letters</i> , 2001, 86, 2814-2817.	2.9	44
189	An Investigation into the design of an Interface for Interaction with a Virtual Environment representing a four-dimensional object. <i>Eurographics</i> , 2001, , 83-92.	0.4	0
190	Identification of symmetry breaking and a bifurcation sequence to chaos in single particle dynamics in magnetic reversals. <i>Physica D: Nonlinear Phenomena</i> , 2000, 139, 217-230.	1.3	7
191	Does stochasticity due to whistler mode wave coupling persist in self-consistent systems?. <i>Physica D: Nonlinear Phenomena</i> , 2000, 138, 251-266.	1.3	3
192	Inverse cascade avalanche model with limit cycle exhibiting period doubling, intermittency, and self-similarity. <i>Physical Review E</i> , 2000, 62, 1905-1911.	0.8	29
193	Is the dynamic magnetosphere an avalanching system?. <i>Geophysical Research Letters</i> , 2000, 27, 911-914.	1.5	135
194	Plasma sounding at the upper hybrid frequency. <i>Journal of Geophysical Research</i> , 2000, 105, 13103-13117.	3.3	1
195	Analytical determination of power-law index for the Chapman et al. sandpile (FSOC) analog for magnetospheric activity - A renormalization-group analysis. <i>Geophysical Research Letters</i> , 2000, 27, 1367-1370.	1.5	14
196	The energy injection into waves with a zero group velocity. <i>Physics of Plasmas</i> , 1999, 6, 2681-2692.	0.7	5
197	A sandpile model with dual scaling regimes for laboratory, space and astrophysical plasmas. <i>Physics of Plasmas</i> , 1999, 6, 4169-4177.	0.7	44
198	Exactly solvable sandpile with fractal avalanching. <i>Physical Review E</i> , 1999, 59, 6356-6360.	0.8	10

#	ARTICLE	IF	CITATIONS
199	The application of a shift theorem analysis technique to multipoint measurements. <i>Annales Geophysicae</i> , 1999, 17, 321-327.	0.6	0
200	Robustness of collective behaviour in strongly driven avalanche models: Magnetospheric implications. <i>Geophysical Research Letters</i> , 1999, 26, 2617-2620.	1.5	41
201	Local ion energization and field structure during dipolarization in kinetic and MHD limits. <i>Advances in Space Research</i> , 1998, 21, 637-640.	1.2	0
202	Case studies of ion energisation events near substorm onset. <i>Advances in Space Research</i> , 1998, 21, 641-644.	1.2	0
203	Whistler mode wave coupling effects on electron dynamics in the near Earth magnetosphere. <i>Geophysical Research Letters</i> , 1998, 25, 265-268.	1.5	8
204	Are particles detrapped by constant $B_{\text{in}}$ static magnetic reversals?. <i>Journal of Geophysical Research</i> , 1998, 103, 4597-4603.	3.3	12
205	A simple avalanche model as an analogue for magnetospheric activity. <i>Geophysical Research Letters</i> , 1998, 25, 2397-2400.	1.5	152
206	Stochastic Phase Space Diffusion in Electron-Whistler Mode Wave Particle Interactions during Disturbed Times. <i>Astrophysics and Space Science Library</i> , 1998, , 551-554.	1.0	0
207	THE DIGITAL WAVE-PROCESSING EXPERIMENT ON CLUSTER. <i>Space Science Reviews</i> , 1997, 79, 209-231.	3.7	32
208	A comparison of self-consistent kinetic and quasi-MHD simulations: Application to a dipolarizing field reversal. <i>Geophysical Research Letters</i> , 1996, 23, 3251-3254.	1.5	6
209	Self-consistent simulation studies of non-linear electron-whistler wave-particle interactions. <i>Physica D: Nonlinear Phenomena</i> , 1996, 95, 35-49.	1.3	6
210	Suspected wave-particle interactions coincident with a pancake distribution as seen by the CRRES spacecraft. <i>Advances in Space Research</i> , 1996, 17, 83-87.	1.2	8
211	Scaling parameters and parametric coordinates in static and time dependent magnetic reversals. <i>Advances in Space Research</i> , 1996, 18, 285-289.	1.2	2
212	Delay coordinates: a sensitive indicator of nonlinear dynamics in single charged particle motion in magnetic reversals. <i>Annales Geophysicae</i> , 1995, 13, 836-842.	0.6	3
213	One- and two-dimensional simulations of whistler mode waves in an anisotropic plasma. <i>Journal of Geophysical Research</i> , 1995, 100, 17189.	3.3	37
214	Self consistent one-dimensional hybrid code simulations of a relaxing field reversal. <i>Journal of Geophysical Research</i> , 1994, 99, 17391.	3.3	10
215	Properties of single-particle dynamics in a parabolic magnetic reversal with general time dependence. <i>Journal of Geophysical Research</i> , 1994, 99, 5977.	3.3	17
216	Self-consistent one-dimensional hybrid code simulations of ion energization in a dipolarizing field reversal. <i>Advances in Space Research</i> , 1993, 13, 253-257.	1.2	3

#	ARTICLE	IF	CITATIONS
217	Parameterization of chaotic particle dynamics in a simple time-dependent field reversal. Journal of Geophysical Research, 1993, 98, 165-177.	3.3	16
218	Some consequences of the Shift Theorem for multispacecraft measurements. Geophysical Research Letters, 1993, 20, 2023-2026.	1.5	6
219	Shocklike behaviour exhibited at early times by the AMPTE solar wind/magnetosheath releases. Planetary and Space Science, 1989, 37, 1227-1247.	0.9	3
220	On the bulk motion of the ion clouds formed by the AMPTE solar wind/magnetosheath releases. Journal of Geophysical Research, 1989, 94, 227-240.	3.3	12
221	One-dimensional hybrid simulations of boundary layer processes in the AMPTE solar wind lithium releases. Journal of Geophysical Research, 1987, 92, 11059-11073.	3.3	14
222	The velocity distribution function of the neutral lithium cloud produced by an AMPTE solar wind release. Planetary and Space Science, 1987, 35, 965-976.	0.9	4
223	Ordering of momentum transfer along $\nabla\mu_B$ in the AMPTE solar wind releases. Journal of Geophysical Research, 1986, 91, 8051-8055.	3.3	36
224	The motion of lithium test ions in the quiet time nightside magnetosphere: Conservation of magnetic moment and longitudinal invariants. Planetary and Space Science, 1985, 33, 685-709.	0.9	3
225	Acceleration of lithium test ions in the quiet time geomagnetic tail. Journal of Geophysical Research, 1984, 89, 7357-7366.	3.3	13
226	Visualization of multi-scale data sets in self-organized criticality sandpile model. , 0, , .		0