

Chio Z Cheng

List of Publications by Year in descending order

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234
papers

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30070

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92
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246
all docs

246
docs citations

246
times ranked

3868
citing authors

#	ARTICLE	IF	CITATIONS
1	The integration of the vlasov equation in configuration space. Journal of Computational Physics, 1976, 22, 330-351.	3.8	704
2	Low- n shear Alfvén spectra in axisymmetric toroidal plasmas. Physics of Fluids, 1986, 29, 3695-3701.	1.4	496
3	Chapter 5: Physics of energetic ions. Nuclear Fusion, 2007, 47, S264-S284.	3.5	478
4	High- n ideal and resistive shear Alfvén waves in tokamaks. Annals of Physics, 1985, 161, 21-47.	2.8	443
5	Kinetic extensions of magnetohydrodynamics for axisymmetric toroidal plasmas. Physics Reports, 1992, 211, 1-51.	25.6	227
6	Kinetic Alfvén waves and plasma transport at the magnetopause. Geophysical Research Letters, 1997, 24, 1423-1426.	4.0	187
7	Magnetic Reconnection and Mass Acceleration in Flare-Coronal Mass Ejection Events. Astrophysical Journal, 2004, 604, 900-905.	4.5	178
8	Simulations of deuterium-tritium experiments in TFTR. Nuclear Fusion, 1992, 32, 429-447.	3.5	164
9	Kinetic ballooning instability for substorm onset and current disruption observed by AMPTE/CCE. Geophysical Research Letters, 1998, 25, 4091-4094.	4.0	158
10	NOVA: A nonvariational code for solving the MHD stability of axisymmetric toroidal plasmas. Journal of Computational Physics, 1987, 71, 124-146.	3.8	154
11	Alpha-particle losses from toroidicity-induced Alfvén eigenmodes. Part II: Monte Carlo simulations and anomalous alpha-loss processes. Physics of Fluids B, 1992, 4, 1506-1516.	1.7	147
12	Stochastic ion heating at the magnetopause due to kinetic Alfvén waves. Geophysical Research Letters, 2001, 28, 4421-4424.	4.0	143
13	Alfvén eigenmode and energetic particle research in JT-60U. Nuclear Fusion, 1998, 38, 1303-1314.	3.5	135
14	Fusion power production from TFTR plasmas fueled with deuterium and tritium. Physical Review Letters, 1994, 72, 3526-3529.	7.8	130
15	Excitation of high-toroidicity-induced shear Alfvén eigenmodes by energetic particles and fusion alpha particles in tokamaks. Physics of Fluids B, 1992, 4, 3722-3734.	1.7	125
16	Alpha-Particle-Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor. Physical Review Letters, 1997, 78, 2976-2979.	7.8	118
17	Three-dimensional hybrid gyrokinetic-magnetohydrodynamics simulation. Physics of Fluids B, 1992, 4, 2033-2037.	1.7	115
18	Kinetic theory of collisionless ballooning modes. Physics of Fluids, 1982, 25, 1020.	1.4	105

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19	Fast particle finite orbit width and Larmor radius effects on low-n toroidicity induced Alfvén eigenmode excitation. <i>Physics of Plasmas</i> , 1999, 6, 2802-2807.	1.9	99
20	GPS Radio Occultation: Results from CHAMP, GRACE and FORMOSAT-3/COSMIC. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 35.	0.6	96
21	Drift-wave eigenmodes in toroidal plasmas. <i>Physics of Fluids</i> , 1980, 23, 2242.	1.4	93
22	Alfvén eigenmodes driven by Alfvénic beam ions in JT-60U. <i>Nuclear Fusion</i> , 2001, 41, 603-612.	3.5	93
23	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
24	Confinement and heating of a deuterium-tritium plasma. <i>Physical Review Letters</i> , 1994, 72, 3530-3533.	7.8	90
25	Traditional Massage of Newborns in Nepal: Implications for Trials of Improved Practice. <i>Journal of Tropical Pediatrics</i> , 2005, 51, 82-86.	1.5	90
26	Formation of Convective Cells, Anomalous Diffusion, and Strong Plasma Turbulence Due to Drift Instabilities. <i>Physical Review Letters</i> , 1977, 38, 708-711.	7.8	89
27	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1995, 2, 2176-2188.	1.9	89
28	Three-dimensional ionospheric electron density structure of the Weddell Sea Anomaly. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	86
29	Fast particle destabilization of toroidal Alfvén eigenmodes. <i>Nuclear Fusion</i> , 1995, 35, 1639-1650.	3.5	84
30	New Interpretation of Alpha-Particle-Driven Instabilities in Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor. <i>Physical Review Letters</i> , 2003, 91, 125003.	7.8	83
31	Acceleration of heavy ions on auroral field lines. <i>Geophysical Research Letters</i> , 1981, 8, 795-798.	4.0	81
32	Alfvén cyclotron instability and ion cyclotron emission. <i>Nuclear Fusion</i> , 1995, 35, 1743-1752.	3.5	77
33	Observation of Compressional Alfvén Modes During Neutral-Beam Heating on the National Spherical Torus Experiment. <i>Physical Review Letters</i> , 2001, 87, 145001.	7.8	77
34	Small-scale, dispersive field line resonances in the hot magnetospheric plasma. <i>Journal of Geophysical Research</i> , 1998, 103, 26559-26572.	3.3	76
35	Analysis of alpha particle-driven toroidal Alfvén eigenmodes in Tokamak Fusion Test Reactor deuterium-tritium experiments. <i>Physics of Plasmas</i> , 1996, 3, 4036-4045.	1.9	75
36	Theory and numerical simulations on collisionless drift instabilities in three dimensions. <i>Nuclear Fusion</i> , 1978, 18, 587-607.	3.5	74

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37	Characteristics of Alfvén eigenmodes, burst modes and chirping modes in the Alfvén frequency range driven by negative ion based neutral beam injection in JT-60U. Nuclear Fusion, 1999, 39, 1837-1843.	3.5	74
38	Signatures of mode conversion and kinetic Alfvén waves at the magnetopause. Geophysical Research Letters, 2001, 28, 227-230.	4.0	74
39	Alpha particle destabilization of the toroidicity-induced Alfvén eigenmodes. Physics of Fluids B, 1991, 3, 2463-2471.	1.7	70
40	Particle transport and energization associated with substorms. Journal of Geophysical Research, 2000, 105, 18741-18752.	3.3	70
41	Physics of Substorm Growth Phase, Onset, and Dipolarization. Space Science Reviews, 2004, 113, 207-270.	8.1	70
42	Theory of a high- n toroidicity-induced shear Alfvén eigenmode in tokamaks. Physics of Fluids B, 1990, 2, 985-993.	1.7	68
43	Stability of the toroidicity-induced Alfvén eigenmode in axisymmetric toroidal equilibria. Physics of Fluids B, 1993, 5, 4040-4050.	1.7	67
44	Theory of ballooning-mirror instabilities for anisotropic pressure plasmas in the magnetosphere. Journal of Geophysical Research, 1994, 99, 11193.	3.3	64
45	Ion and Electron Heating Characteristics of Magnetic Reconnection in a Two Flux Loop Merging Experiment. Physical Review Letters, 2011, 107, 185001.	7.8	63
46	A kinetic-magnetohydrodynamic model for low-frequency phenomena. Journal of Geophysical Research, 1991, 96, 21159-21171.	3.3	61
47	A kinetic-fluid model. Journal of Geophysical Research, 1999, 104, 413-427.	3.3	60
48	Can Ion Cyclotron Waves Propagate to the Ground?. Geophysical Research Letters, 1999, 26, 671-674.	4.0	60
49	Study of thermonuclear Alfvén instabilities in next step burning plasma proposals. Nuclear Fusion, 2003, 43, 594-605.	3.5	60
50	Overview of TFTR transport studies. Plasma Physics and Controlled Fusion, 1991, 33, 1509-1536.	2.1	59
51	Excitation of Alfvén cyclotron instability by charged fusion products in tokamaks. Physics of Plasmas, 1995, 2, 1961-1971.	1.9	58
52	Wave driven fast ion loss in the National Spherical Torus Experiment. Physics of Plasmas, 2003, 10, 2852-2862.	1.9	58
53	Eigenmode analysis of compressional waves in the magnetosphere. Geophysical Research Letters, 1987, 14, 884-887.	4.0	56
54	Measurements, modelling and electron cyclotron heating modification of Alfvén eigenmode activity in DIII-D. Nuclear Fusion, 2009, 49, 065003.	3.5	56

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55	Magnetospheric equilibrium with anisotropic pressure. Journal of Geophysical Research, 1992, 97, 1497-1510.	3.3	55
56	Stability Analysis of Toroidicity-Induced Alfvén Eigenmodes in TFTR Deuterium-Tritium Experiments. Physical Review Letters, 1995, 75, 2336-2339.	7.8	54
57	Observation and theory of Pc 5 waves with harmonically related transverse and compressional components. Journal of Geophysical Research, 1990, 95, 977-989.	3.3	53
58	Self-consistent equilibrium model of low aspect-ratio toroidal plasma with energetic beam ions. Physics of Plasmas, 2003, 10, 3240-3251.	1.9	53
59	Theory and observations of high frequency Alfvén eigenmodes in low aspect ratio plasmas. Nuclear Fusion, 2003, 43, 228-233.	3.5	53
60	Recent progress of Alfvén eigenmode experiments using N-NB in JT-60U tokamak. Nuclear Fusion, 2002, 42, 942-948.	3.5	52
61	Ion and electron heating characteristics of magnetic reconnection in tokamak plasma merging experiments. Plasma Physics and Controlled Fusion, 2012, 54, 124039.	2.1	52
62	High-helicity-induced shear Alfvén eigenmodes. Physics of Fluids B, 1992, 4, 1115-1121.	1.7	51
63	High-n collisionless ballooning modes in axisymmetric toroidal plasmas. Nuclear Fusion, 1982, 22, 773-785.	3.5	50
64	Energetic particle effects on global magnetohydrodynamic modes. Physics of Fluids B, 1990, 2, 1427-1434.	1.7	50
65	3-D force-balanced magnetospheric configurations. Annales Geophysicae, 2004, 22, 251-265.	1.6	49
66	Toroidal Alfvén eigenmodes driven with ICRF accelerated protons in JT-60U negative shear discharges. Nuclear Fusion, 1998, 38, 1215-1223.	3.5	48
67	Noncircular Triangularity and Ellipticity-Induced Alfvén Eigenmodes Observed in JT-60U. Physical Review Letters, 1998, 80, 2594-2597.	7.8	47
68	Fast particle experiments in JT-60U. Nuclear Fusion, 2000, 40, 1383-1396.	3.5	47
69	A STATISTICAL STUDY OF HARD X-RAY FOOTPOINT MOTIONS IN LARGE SOLAR FLARES. Astrophysical Journal, 2009, 693, 132-139.	4.5	45
70	MHD stable regime of the Tokamak. Plasma Physics and Controlled Fusion, 1987, 29, 351-366.	2.1	44
71	Energetic particle physics in JT-60U and JFT-2M. Plasma Physics and Controlled Fusion, 2004, 46, S31-S45.	2.1	44
72	Energetic ion transport by abrupt large-amplitude event induced by negative-ion-based neutral beam injection in the JT-60U. Nuclear Fusion, 2005, 45, 1474-1480.	3.5	44

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73	Observations of neutral beam and ICRF tail ion losses due to Alfvén modes in TFTR. Nuclear Fusion, 1997, 37, 939-954.	3.5	43
74	Excitation of high n toroidicity-induced Alfvén eigenmodes and associated plasma dynamical behaviour in the JT-60U ICRF experiments. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 199, 86-92.	2.1	42
75	Compressional Alfvén eigenmode instability in NSTX. Nuclear Fusion, 2002, 42, 977-985.	3.5	42
76	Finite pressure effects on reversed shear Alfvén eigenmodes. Plasma Physics and Controlled Fusion, 2004, 46, L23-L29.	2.1	42
77	MHD ballooning instability in the plasma sheet. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	42
78	Ion cyclotron range of frequencies stabilization of sawteeth on Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2155-2164.	1.7	41
79	Overview of DT results from TFTR. Nuclear Fusion, 1995, 35, 1429-1436.	3.5	41
80	Magnetohydrodynamic theory of field line resonances in the magnetosphere. Journal of Geophysical Research, 1993, 98, 11339-11347.	3.3	40
81	Flux Rope Acceleration and Enhanced Magnetic Reconnection Rate. Astrophysical Journal, 2003, 596, 1341-1346.	4.5	40
82	Alfvén eigenmodes in reversed shear plasmas in JT-60U negative-ion-based neutral beam injection discharges. Physics of Plasmas, 2005, 12, 082509.	1.9	40
83	Unstable universal drift eigenmodes in toroidal plasmas. Physics of Fluids, 1980, 23, 1770.	1.4	39
84	Electrostatic drift wave eigenmodes in tokamaks. Nuclear Fusion, 1981, 21, 643-650.	3.5	39
85	RELATIONSHIP BETWEEN CME KINEMATICS AND FLARE STRENGTH. Journal of the Korean Astronomical Society, 2003, 36, 61-66.	1.5	39
86	Kinetic analysis of MHD ballooning modes in tokamaks. Nuclear Fusion, 1985, 25, 151-164.	3.5	38
87	A Model of Solar Flares and Their Homologous Behavior. Astrophysical Journal, 2000, 541, 449-467.	4.5	38
88	Thermonuclear Instability of Global-Type Shear Alfvén Modes. Fusion Science and Technology, 1990, 18, 461-474.	0.6	37
89	Investigation of global Alfvén instabilities in the Tokamak Fusion Test Reactor. Physics of Fluids B, 1992, 4, 2122-2126.	1.7	37
90	Calculations of Axisymmetric Stability of Tokamak Plasmas with Active and Passive Feedback. Journal of Computational Physics, 1993, 104, 221-240.	3.8	37

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91	Particle dynamics in chirped-frequency fluctuations. <i>Physical Review Letters</i> , 1994, 72, 2503-2507.	7.8	37
92	Global structure of mirror modes in the magnetosheath. <i>Journal of Geophysical Research</i> , 1997, 102, 7179-7189.	3.3	37
93	Magnetic safety factor profile before and after sawtooth crashes investigated with toroidicity and ellipticity induced Alfvén eigenmodes. <i>Nuclear Fusion</i> , 2001, 41, 1135-1151.	3.5	37
94	Latitudinal distribution of anomalous ion density as a precursor of a large earthquake. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	37
95	Three-dimensional magnetospheric equilibrium with isotropic pressure. <i>Geophysical Research Letters</i> , 1995, 22, 2401-2404.	4.0	36
96	Beam ion driven instabilities in the National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 2004, 11, 2586-2593.	1.9	36
97	Magnetic field fluctuations during substorm-associated dipolarizations in the nightside plasma sheet around $X = \hat{a} \sim 10 R_E$. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	36
98	TFTR DT experiments. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, B103-B114.	2.1	35
99	Electron and Ion Heating Characteristics during Magnetic Reconnection in the MAST Spherical Tokamak. <i>Physical Review Letters</i> , 2015, 115, 215004.	7.8	34
100	Ballooning-mode theory of trapped-electron instabilities in tokamaks. <i>Nuclear Fusion</i> , 1981, 21, 403-408.	3.5	33
101	High-frequency core localized modes in neutral beam heated plasmas on TFTR. <i>Physics of Plasmas</i> , 1996, 3, 593-605.	1.9	33
102	Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas. <i>Physics of Plasmas</i> , 1998, 5, 1703-1711.	1.9	33
103	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , 0, , 103-116.	0.1	33
104	Measurements of the radial structure and poloidal spectra of toroidal Alfvén eigenmodes in the Tokamak Fusion Test Reactor. <i>Physics of Fluids B</i> , 1992, 4, 3707-3712.	1.7	32
105	Overview of JT-60U results leading to high integrated performance in reactor-relevant regimes. <i>Nuclear Fusion</i> , 2003, 43, 1527-1539.	3.5	32
106	Near-Earth thin current sheets and Birkeland currents during substorm growth phase. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	31
107	Numerical simulations of electrostatic hydrogen cyclotron instabilities. <i>Physics of Fluids</i> , 1981, 24, 1060.	1.4	30
108	Anomalous losses of deuterium-deuterium fusion products in the Tokamak Fusion Test Reactor*. <i>Physics of Plasmas</i> , 1994, 1, 1469-1478.	1.9	29

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109	The toroidicity-induced Alfvén eigenmode structure in DIII-D: Implications of soft x-ray and beam-ion loss data. <i>Physics of Plasmas</i> , 2001, 8, 3391-3401.	1.9	28
110	Effect of storm-time plasma pressure on the magnetic field in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	28
111	Means to remove electrode contamination effect of Langmuir probe measurement in space. <i>Review of Scientific Instruments</i> , 2012, 83, 055113.	1.3	28
112	The integration of the Vlasov equation for a magnetized plasma. <i>Journal of Computational Physics</i> , 1977, 24, 348-360.	3.8	27
113	Absolute dissipative drift-wave instabilities in tokamaks. <i>Nuclear Fusion</i> , 1980, 20, 901-905.	3.5	27
114	Finite Larmor radius stability theory of ELMO Bumpy Torus plasmas. <i>Physics of Fluids</i> , 1983, 26, 2642.	1.4	27
115	Alpha particle effects on the internal kink and fishbone modes. <i>Physics of Plasmas</i> , 1994, 1, 3369-3377.	1.9	27
116	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
117	Substorm injection modeling with nondipolar, time-dependent background field. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
118	Stability properties of toroidal Alfvén modes driven by fast particles. <i>Nuclear Fusion</i> , 2000, 40, 1311-1323.	3.5	26
119	Confinement degradation and transport of energetic ions due to Alfvén eigenmodes in JT-60U weak shear plasmas. <i>Nuclear Fusion</i> , 2007, 47, 849-855.	3.5	26
120	New three-dimensional simulation models for cylindrical and toroidal plasmas. <i>Journal of Computational Physics</i> , 1977, 25, 133-150.	3.8	25
121	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. <i>Physics of Plasmas</i> , 1996, 3, 1875-1880.	1.9	25
122	HINST: A two-dimensional code for high-n toroidicity induced Alfvén eigenmodes stability. <i>Physics of Plasmas</i> , 1998, 5, 3389-3397.	1.9	25
123	LOW ATMOSPHERE RECONNECTIONS ASSOCIATED WITH AN ERUPTIVE SOLAR FLARE. <i>Journal of the Korean Astronomical Society</i> , 2004, 37, 41-53.	1.5	25
124	Anomalous Diffusion and Ion Heating in the Presence of Electrostatic Hydrogen Cyclotron Instabilities. <i>Physical Review Letters</i> , 1981, 46, 427-430.	7.8	24
125	Frequency Chirping of Core-Localized Toroidicity-Induced Alfvén Eigenmodes and their Coupling to Global Alfvén Eigenmodes. <i>Physical Review Letters</i> , 1999, 83, 2961-2964.	7.8	24
126	The neutral temperature in the ionospheric dynamo region and the ionospheric F region density during Wenchuan and Pingtung Doublet earthquakes. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1759-1768.	3.6	24

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127	Alpha-Particle Effects on LOW- n Magnetohydrodynamic Modes. Fusion Science and Technology, 1990, 18, 443-454.	0.6	23
128	Status and Plans for TFTR. Fusion Science and Technology, 1992, 21, 1324-1331.	0.6	23
129	Alpha-particle physics in the tokamak fusion test reactor DT experiment. Plasma Physics and Controlled Fusion, 1997, 39, A275-A283.	2.1	23
130	Study of the effect of compressional Alfvén modes on thermal transport in the National Spherical Torus Experiment. Physics of Plasmas, 2002, 9, 2069-2076.	1.9	23
131	Energy of Force-free Magnetic Fields in Relation to Coronal Mass Ejections. Astrophysical Journal, 2002, 574, L179-L182.	4.5	23
132	Recent D-T results on TFTR. Plasma Physics and Controlled Fusion, 1995, 37, A69-A85.	2.1	22
133	ICRF results in D-T plasmas in JET and TFTR and implications for ITER. Plasma Physics and Controlled Fusion, 1998, 40, A87-A103.	2.1	22
134	Resonance frequency of stretched magnetic field lines based on a self-consistent equilibrium magnetosphere model. Journal of Geophysical Research, 2001, 106, 25793-25802.	3.3	22
135	Variations in the equatorial ionization anomaly peaks in the Western Pacific region during the geomagnetic storms of April 6 and July 15, 2000. Earth, Planets and Space, 2007, 59, 401-405.	2.5	22
136	Can an isotropic plasma pressure distribution be in force balance with the T96 model field?. Journal of Geophysical Research, 2003, 108, .	3.3	20
137	Compressional Alfvén eigenmode dispersion in low aspect ratio plasmas. Physics of Plasmas, 2002, 9, 3483-3488.	1.9	19
138	ESTIMATION OF THE RECONNECTION ELECTRIC FIELD IN THE 2003 OCTOBER 29 X10 FLARE. Astrophysical Journal, 2011, 732, 15.	4.5	19
139	Physical processes of driven magnetic reconnection in collisionless plasmas: Zero guide field case. Physics of Plasmas, 2015, 22, .	1.9	19
140	Orbit effects on impurity transport in a rotating tokamak plasma. Physics of Fluids B, 1989, 1, 545-554.	1.7	18
141	Ballooning-Mirror Instability and Internally Driven Pc 4-5 Wave Events.. Journal of Geomagnetism and Geoelectricity, 1994, 46, 997-1009.	0.9	18
142	Plasma-surface interactions in TFTR DT experiments. Journal of Nuclear Materials, 1995, 220-222, 62-72.	2.7	18
143	Observation of new branch of toroidal Alfvén eigenmodes in TFTR. Nuclear Fusion, 1995, 35, 1457-1461.	3.5	18
144	Field line resonances in quiet and disturbed time three-dimensional magnetospheres. Journal of Geophysical Research, 2003, 108, SMP 1-1.	3.3	18

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145	MHD field line resonances and global modes in three-dimensional magnetic fields. <i>Journal of Geophysical Research</i> , 2003, 108, SMP 2-1.	3.3	18
146	Investigation of merging/reconnection heating during solenoid-free startup of plasmas in the MAST Spherical Tokamak. <i>Nuclear Fusion</i> , 2017, 57, 056037.	3.5	18
147	Effect of shear in toroidal rotation on toroidicity induced Alfvén eigenmodes. <i>Nuclear Fusion</i> , 1997, 37, 1559-1568.	3.5	17
148	Relationship between wave-like auroral arcs and Pi2 disturbances in plasma sheet prior to substorm onset. <i>Earth, Planets and Space</i> , 2015, 67, 168.	2.5	17
149	Alpha-driven magnetohydrodynamics (MHD) and MHD-induced alpha loss in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1610-1616.	1.9	16
150	Observation of confinement degradation of energetic ions due to Alfvén eigenmodes in JT-60U weak shear plasmas. <i>Nuclear Fusion</i> , 2006, 46, S898-S903.	3.5	16
151	Numerical study of energy conversion mechanism of magnetic reconnection in the presence of high guide field. <i>Nuclear Fusion</i> , 2015, 55, 083014.	3.5	16
152	Trapped electron stabilization of ballooning modes in low aspect ratio toroidal plasmas. <i>Physics of Plasmas</i> , 2004, 11, 4784-4795.	1.9	15
153	Recent progress of magnetic reconnection research in the MAST spherical tokamak. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	15
154	Numerical Simulation of Trapped-Electron Instabilities in Toroidal Geometry. <i>Physical Review Letters</i> , 1978, 41, 1116-1119.	7.8	14
155	The determination of the q -profile in the plasma core from Alfvén eigenmodes. <i>Plasma Physics and Controlled Fusion</i> , 1998, 40, 863-869.	2.1	14
156	Electrostatic and magnetostatic particle simulation models in three dimensions. <i>Computer Physics Communications</i> , 1979, 17, 233-238.	7.5	13
157	Behavior of substorm auroral arcs and Pi2 waves: implication for the kinetic ballooning instability. <i>Annales Geophysicae</i> , 2012, 30, 911-926.	1.6	13
158	Reconnection heating experiments and simulations for torus plasma merging start-up. <i>Nuclear Fusion</i> , 2019, 59, 076025.	3.5	13
159	Search for alpha driven TAEs at lowered ion temperature in TFTR DT discharges. <i>Nuclear Fusion</i> , 1996, 36, 987-1008.	3.5	12
160	Efficient Production of Hydrogen by DBD Type Plasma Discharges. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 3765-3771.	1.3	12
161	Current Sheets and Prominence Formation in the Solar Atmosphere. <i>Astrophysical Journal</i> , 1998, 505, 376-389.	4.5	11
162	Global Ionospheric Structure Imaged by FORMOSAT-3/COSMIC: Early Results. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 171.	0.6	11

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163	Theory of Alfvén-slow frequency gaps and discovery of Alfvén-slow eigenmodes in tokamaks. <i>Physics of Plasmas</i> , 2019, 26, 082508.	1.9	11
164	Higher order multipoles and splines in plasma simulations. <i>Computer Physics Communications</i> , 1978, 14, 169-176.	7.5	10
165	Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor. <i>Fusion Science and Technology</i> , 1994, 26, 389-398.	0.6	10
166	JT-60 Program. <i>Fusion Science and Technology</i> , 2002, 42, 179-184.	1.1	10
167	Properties of low and medium frequency modes in two-fluid plasma. <i>Physics of Plasmas</i> , 2005, 12, 052113.	1.9	10
168	Lithium plasma emitter for collisionless magnetized plasma experiment. <i>Review of Scientific Instruments</i> , 2011, 82, 093502.	1.3	10
169	Neoclassical Diffusion of Heavy Impurities in a Rotating Tokamak Plasma. <i>Physical Review Letters</i> , 1987, 59, 2643-2646.	7.8	9
170	Gyrokinetic simulation of microinstabilities in high temperature tokamaks. <i>Physics of Fluids B</i> , 1991, 3, 688-695.	1.7	9
171	Hydrogen Production From Hydrocarbons With Use of Plasma Discharges Under High Pressure Condition. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 3674-3680.	1.3	9
172	Electron temperature and density probe for small aeronomy satellites. <i>Review of Scientific Instruments</i> , 2015, 86, 084703.	1.3	9
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