List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Collisionless damping of zonal flows in helical systems. Physics of Plasmas, 2006, 13, 012501.	1.9	188
2	Velocity–space structures of distribution function in toroidal ion temperature gradient turbulence. Nuclear Fusion, 2006, 46, 24-32.	3.5	183
3	Collisionless damping of geodesic acoustic modes. Journal of Plasma Physics, 2006, 72, 825.	2.1	129
4	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	3.5	116
5	Linearized model collision operators for multiple ion species plasmas and gyrokinetic entropy balance equations. Physics of Plasmas, 2009, 16, 112503.	1.9	95
6	How to calculate the neoclassical viscosity, diffusion, and current coefficients in general toroidal plasmas. Physics of Plasmas, 2002, 9, 4637-4653.	1.9	93
7	Reduction of Turbulent Transport with Zonal Flows Enhanced in Helical Systems. Physical Review Letters, 2008, 100, 195002.	7.8	89
8	Dynamics of Zonal Flows in Helical Systems. Physical Review Letters, 2005, 94, 115001.	7.8	82
9	Isotope Effects on Trapped-Electron-Mode Driven Turbulence and Zonal Flows in Helical and Tokamak Plasmas. Physical Review Letters, 2017, 118, 165002.	7.8	82
10	Kinetic simulation of steady states of ion temperature gradient driven turbulence with weak collisionality. Physics of Plasmas, 2004, 11, 1476-1483.	1.9	80
11	Momentum balance and radial electric fields in axisymmetric and nonaxisymmetric toroidal plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 024004.	2.1	59
12	L-H confinement mode dynamics in three-dimensional state space. Plasma Physics and Controlled Fusion, 1995, 37, 345-362.	2.1	56
13	Energy confinement and thermal transport characteristics of net current free plasmas in the Large Helical Device. Nuclear Fusion, 2001, 41, 901-908.	3.5	56
14	Nonlinear entropy transfer via zonal flows in gyrokinetic plasma turbulence. Physics of Plasmas, 2012, 19, .	1.9	56
15	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
16	Gyrokinetic turbulent transport simulation of a high ion temperature plasma in large helical device experiment. Physics of Plasmas, 2012, 19, .	1.9	54
17	Overview of LHD experiments. Nuclear Fusion, 2001, 41, 1355-1367.	3.5	53
18	Development of a Non-Local Neoclassical Transport Code for Helical Configurations. Plasma and Fusion Research, 2008, 3, S1062-S1062.	0.7	50

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19	Gyrokinetic simulation of zonal flows and ion temperature gradient turbulence in helical systems. Nuclear Fusion, 2007, 47, 1383-1390.	3.5	49
20	Kinetic simulation of a quasisteady state in collisionless ion temperature gradient driven turbulence. Physics of Plasmas, 2002, 9, 3659-3662.	1.9	47
21	Collisionless kinetic-fluid closure and its application to the three-mode ion temperature gradient driven system. Physics of Plasmas, 2001, 8, 2617-2628.	1.9	43
22	Benchmark test of drift-kinetic and gyrokinetic codes through neoclassical transport simulations. Computer Physics Communications, 2010, 181, 1069-1076.	7.5	40
23	A reduced model for ion temperature gradient turbulent transport in helical plasmas. Physics of Plasmas, 2013, 20, .	1.9	40
24	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	3.5	39
25	Non-local neoclassical transport simulation of geodesic acoustic mode. Nuclear Fusion, 2005, 45, 1362-1368.	3.5	37
26	Collisionless kinetic-fluid model of zonal flows in toroidal plasmas. Physics of Plasmas, 2007, 14, 022502.	1.9	37
27	Gyrokinetic Vlasov Code Including Full Three-dimensional Geometry of Experiments. Plasma and Fusion Research, 2010, 5, 016-016.	0.7	37
28	Zonal flows and ion temperature gradient instabilities in multiple-helicity magnetic fields. Physics of Plasmas, 2007, 14, 122505.	1.9	35
29	Zonal Flow Dynamics and Control of Turbulent Transport in Stellarators. Physical Review Letters, 2011, 107, 245002.	7.8	35
30	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	3.5	35
31	Quasilinear carbon transport in an impurity hole plasma in LHD. Physics of Plasmas, 2014, 21, .	1.9	35
32	Effects of equilibrium-scale radial electric fields on zonal flows and turbulence in helical configurations. Nuclear Fusion, 2011, 51, 123003.	3.5	34
33	Linear Gyrokinetic Analyses of ITG Modes and Zonal Flows in LHD with High Ion Temperature. Plasma and Fusion Research, 2011, 6, 1403001-1403001.	0.7	34
34	Turbulence-driven zonal flows in helical systems with radial electric fields. Physics of Plasmas, 2009, 16, 056101.	1.9	33
35	Electromagnetic gyrokinetic simulation of turbulence in torus plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	32
36	Comparison between kinetic and fluid simulations of slab ion temperature gradient driven turbulence. Physics of Plasmas, 2003, 10, 726-736.	1.9	30

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37	Kinetic simulations of turbulent fusion plasmas. Comptes Rendus Physique, 2006, 7, 650-669.	0.9	29
38	Moment-equation methods for calculating neoclassical transport coefficients in general toroidal plasmas. Physics of Plasmas, 2008, 15, 042502.	1.9	29
39	Non-Local Simulation of the Formation of Neoclassical Ambipolar Electric Field in Non-Axisymmetric Configurations. Plasma and Fusion Research, 2006, 1, 002-002.	0.7	28
40	Flow damping due to stochastization of the magnetic field. Nature Communications, 2015, 6, 5816.	12.8	28
41	Gyrokinetic turbulence simulations of high-beta tokamak and helical plasmas with full-kinetic and hybrid models. Nuclear Fusion, 2013, 53, 053007.	3.5	27
42	Validation studies of gyrokinetic ITG and TEM turbulence simulations in a JT-60U tokamak using multiple flux matching. Nuclear Fusion, 2016, 56, 086010.	3.5	27
43	Neoclassical Toroidal Viscosity Calculations in Tokamaks Using a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>l´</mml:mi>MonteÂCarlo Simulation and Their Verifications_Physical Review Letters_2011_107_055001</mml:math 	7.8	25
44	Impact of hydrogen isotope species on microinstabilities in helical plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 074008.	2.1	25
45	Improved collision operator for plasma kinetic simulations with multi-species ions and electrons. Computer Physics Communications, 2015, 197, 61-72.	7.5	23
46	Effects of magnetic drift tangential to magnetic surfaces on neoclassical transport in non-axisymmetric plasmas. Physics of Plasmas, 2015, 22, .	1.9	23
47	Turbulent transport of heat and particles in a high ion temperature discharge of the Large Helical Device. Nuclear Fusion, 2015, 55, 043024.	3.5	22
48	Moderation of neoclassical impurity accumulation in high temperature plasmas of helical devices. Nuclear Fusion, 2017, 57, 016016.	3.5	22
49	A Transport Study for Resistive Interchange Mode Turbulence Based on a Renormalized Theory. Journal of the Physical Society of Japan, 1988, 57, 2010-2025.	1.6	21
50	Calculation of neoclassical toroidal viscosity in tokamaks with broken toroidal symmetry. Plasma Physics and Controlled Fusion, 2011, 53, 054018.	2.1	21
51	Relation between Growth Rate of the Suydam Mode and That of Low Mode Number Interchange Instability. Journal of the Physical Society of Japan, 1989, 58, 1128-1130.	1.6	21
52	Electromagnetic gyrokinetic turbulence in finite-beta helical plasmas. Physics of Plasmas, 2014, 21, 055905.	1.9	20
53	Overview of long pulse operation in the Large Helical Device. Nuclear Fusion, 2000, 40, 1157-1166.	3.5	19
54	Microinstability studies for the large helical device. Nuclear Fusion, 2002, 42, 1047-1054.	3.5	19

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55	Simulation studies on the GAM oscillation and damping in helical configurations. Nuclear Fusion, 2007, 47, 1258-1264.	3.5	19
56	Modern gyrokinetic formulation of collisional and turbulent transport in toroidally rotating plasmas. Reviews of Modern Plasma Physics, 2017, 1, 1.	4.1	18
57	A Nondissipative Simulation Method for the Drift Kinetic Equation. Journal of the Physical Society of Japan, 2001, 70, 3565-3576.	1.6	17
58	Experimental studies towards long pulse steady state operation in LHD. Nuclear Fusion, 2001, 41, 779-790.	3.5	16
59	Multi-machine analysis of turbulent transport in helical systems via gyrokinetic simulation. Nuclear Fusion, 2017, 57, 066010.	3.5	15
60	Improved linearized model collision operator for the highly collisional regime. Physics of Plasmas, 2019, 26, .	1.9	15
61	Gyrokinetic Studies of Ion Temperature Gradient Turbulence and Zonal Flows in Helical Systems. Plasma and Fusion Research, 2008, 3, 041-041.	0.7	15
62	Study of Two-Dimensional Interchange Turbulence. Journal of the Physical Society of Japan, 1990, 59, 3937-3951.	1.6	13
63	Confinement characteristics of the quasi-axisymmetric stellarator CHS-qa. Nuclear Fusion, 2004, 44, 575-581.	3.5	13
64	Development of Linearized Collision Operator for Multiple Ion Species in Gyrokinetic Flux-Tube Simulations. Plasma and Fusion Research, 2015, 10, 1403058-1403058.	0.7	13
65	Metamorphosis of plasma turbulence–shear-flow dynamics through a transcritical bifurcation. Physical Review E, 2002, 66, 066408.	2.1	12
66	Lagrangian neoclassical transport theory applied to the region near the magnetic axis. Physics of Plasmas, 2002, 9, 3946-3960.	1.9	12
67	Vlasov and Drift Kinetic Simulation Methods Based on the Symplectic Integrator. Transport Theory and Statistical Physics, 2005, 34, 287-309.	0.4	12
68	Effects of collisions on conservation laws in gyrokinetic field theory. Physics of Plasmas, 2015, 22, .	1.9	12
69	Quasisymmetric toroidal plasmas with large mean flows. Physics of Plasmas, 2011, 18, 082505.	1.9	11
70	Benchmark of the local drift-kinetic models for neoclassical transport simulation in helical plasmas. Physics of Plasmas, 2017, 24, .	1.9	11
71	Study of electromagnetic microinstabilities in helical systems with the stellarator expansion method. Physics of Plasmas, 2004, 11, 3068-3077.	1.9	10
72	A convergence study for the Laguerre expansion in the moment equation method for neoclassical transport in general toroidal plasmas. Physics of Plasmas, 2010, 17, .	1.9	10

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73	Collisionless kinetic-fluid simulation of zonal flows in non-circular tokamaks. Physics of Plasmas, 2012, 19, 092504.	1.9	10
74	Conservation of energy and momentum in nonrelativistic plasmas. Physics of Plasmas, 2013, 20, .	1.9	10
75	Overview of transport and MHD stability study: focusing on the impact of magnetic field topology in the Large Helical Device. Nuclear Fusion, 2015, 55, 104018.	3.5	10
76	Conservation laws for collisional and turbulent transport processes in toroidal plasmas with large mean flows. Physics of Plasmas, 2017, 24, 020701.	1.9	10
77	Microinstabilities in hydrogen- and helium-dominated multi-ion-species plasmas in LHD. Plasma Physics and Controlled Fusion, 2017, 59, 044013.	2.1	10
78	Gyrokinetic simulations for turbulent transport of multi-ion-species plasmas in helical systems. Physics of Plasmas, 2020, 27, 052501.	1.9	10
79	Simulation studies of the effect of <i>E</i> × <i>B</i> rotation on neoclassical toroidal viscosity in tokamaks with small magnetic perturbations. Nuclear Fusion, 2013, 53, 113033.	3.5	9
80	Simulation studies on temperature profile stiffness in ITG turbulent transport of helical plasmas for flux-matching technique. Physics of Plasmas, 2018, 25, .	1.9	9
81	Enhancement of Residual Zonal Flows in Helical Systems with Equilibrium Radial Electric Fields. Contributions To Plasma Physics, 2010, 50, 571-575.	1.1	8
82	How to apply a turbulent transport model based on a gyrokinetic simulation for the ion temperature gradient mode in helical plasmas. Journal of Physics: Conference Series, 2014, 561, 012020.	0.4	8
83	Flux tube train model for local turbulence simulation of toroidal plasmas. Physics of Plasmas, 2015, 22, .	1.9	8
84	Reduced models of turbulent transport in helical plasmas including effects of zonal flows and trapped electrons. Journal of Plasma Physics, 2020, 86, .	2.1	8
85	Ion Temperature Gradient Modes and Neoclassical Ripple Transport in Multiple-Helicity Fields. Journal of the Physical Society of Japan, 2001, 70, 2235-2238.	1.6	8
86	Impact of Magnetic Field Configuration on Heat Transport in Stellarators and Heliotrons. Physical Review Letters, 2021, 127, 225001.	7.8	8
87	Formation of coherent vortex streets and transport reduction in electron temperature gradient driven turbulence. Physics of Plasmas, 2010, 17, 042306.	1.9	7
88	A Reduced Transport Model for Ion Heat Diffusivity by Gyro-Kinetic Analysis with Kinetic Electrons in Helical Plasmas. Plasma and Fusion Research, 2017, 12, 1303035-1303035.	0.7	7
89	Eulerian variational formulations and momentum conservation laws for kinetic plasma systems. Physics of Plasmas, 2018, 25, 102506.	1.9	7
90	Modeling of turbulent particle and heat transport in helical plasmas based on gyrokinetic analysis. Physics of Plasmas, 2019, 26, 012510.	1.9	7

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91	Benchmark of a new multi-ion-species collision operator for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1799" altimg="si284.svg"><mml:mrow><mml:mi>Î</mml:mi><mml:mi>f</mml:mi>, 2020, 255, 107249.</mml:mrow></mml:math 	7.5	7
92	No Sign Dependence of Ambipolar Radial Electric Field Effect on Resistive Fluid Turbulence. Journal of the Physical Society of Japan, 1989, 58, 3859-3860.	1.6	7
93	Ion-Temperature-Gradient-Driven Drift Mode Coupled to the Resistive Interchange Mode in a Heliotron/Torsatron. Journal of the Physical Society of Japan, 1989, 58, 4265-4268.	1.6	7
94	Poloidal shear flow effect on ideal interchange instability. Nuclear Fusion, 1992, 32, 1647-1652.	3.5	6
95	Effects of finite beta and radial electric fields on neoclassical transport in the Large Helical Device. Nuclear Fusion, 1997, 37, 1463-1475.	3.5	6
96	Radially local approximation of the drift kinetic equation. Physics of Plasmas, 2016, 23, .	1.9	6
97	Extended gyrokinetic field theory for time-dependent magnetic confinement fields. Physics of Plasmas, 2014, 21, 012515.	1.9	5
98	Transport Simulation for Helical Plasmas by use of Gyrokinetic Transport Model. Plasma and Fusion Research, 2019, 14, 3403061-3403061.	0.7	5
99	Verification of gyrokinetic microstability codes with an LHD configuration. Physics of Plasmas, 2014, 21, 112305.	1.9	4
100	Fluid simulation of tokamak ion temperature gradient turbulence with zonal flow closure model. Physics of Plasmas, 2016, 23, .	1.9	4
101	Benchmark of the Bootstrap Current Simulation in Helical Plasmas. Plasma and Fusion Research, 2017, 12, 1203004-1203004.	0.7	4
102	Impacts of External Momentum Torque on Impurity Particle Transport in LHD. Plasma and Fusion Research, 2017, 12, 1203039-1203039.	0.7	4
103	Neoclassical transport simulations with an improved model collision operator. Physics of Plasmas, 2021, 28, 064501.	1.9	4
104	Kinetic Simulations of Neoclassical and Anomalous Transport Processes in Helical Systems. Plasma and Fusion Research, 2012, 7, 2403094-2403094.	0.7	4
105	Transition from resistiveâ€G to ŀi―driven turbulence in stellarator systems. Physics of Fluids B, 1991, 3, 1638-1643.	1.7	3
106	Effects of parallel dynamics on vortex structures in electron temperature gradient driven turbulence. Physics of Plasmas, 2011, 18, 012303.	1.9	3
107	The Eulerian variational formulation of the gyrokinetic system in general spatial coordinates. Physics of Plasmas, 2021, 28, .	1.9	3
108	Statistical Analysis of Anomalous Transport in Resistive Interchange Turbulence. Journal of the Physical Society of Japan, 1992, 61, 3166-3177.	1.6	3

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109	Relation among ITG Turbulence, Zonal Flows, and Transport in Helical Plasmas. Plasma and Fusion Research, 2013, 8, 1203019-1203019.	0.7	3
110	Gyrokinetic simulations of entropy transfer in high ion temperature LHD plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 014017.	2.1	2
111	Vlasov Equation in the Stochastic Magnetic Field. Journal of the Physical Society of Japan, 1993, 62, 514-523.	1.6	2
112	Simulations of Zonal Flow Damping and Electron Bernstein Waves in Helical Systems. AIP Conference Proceedings, 2006, , .	0.4	1
113	Exploring phase space turbulence in magnetic fusion plasmas. Journal of Physics: Conference Series, 2014, 510, 012045.	0.4	1
114	Nonlinear Entropy Transfer in ETG-TEM Turbulence via TEM Driven Zonal Flows. Plasma and Fusion Research, 2015, 10, 1403047-1403047.	0.7	1
115	Polarization and magnetization in collisional and turbulent transport processes. Physics of Plasmas, 2022, 29, 052509.	1.9	1
116	Gyrokinetic-Vlasov simulations of the ion temperature gradient turbulence in tokamak and helical systems. AIP Conference Proceedings, 2006, , .	0.4	0
117	Gyrokinetic and Gyrofluid Models for Zonal Flow Dynamics in Ion and Electron Temperature Gradient Turbulence. AIP Conference Proceedings, 2006, , .	0.4	0
118	Gyrokinetic simulation studies for non-axisymmetric plasma confinement: turbulent transport and entropy transfer. Journal of Physics: Conference Series, 2012, 399, 012020.	0.4	0
119	Recent Progress in the Numerical Simulation Reactor Research Project. Plasma and Fusion Research, 2019, 14, 3503059-3503059.	0.7	0
120	Prediction of temperature profiles in helical plasmas by integrated code coupled with gyrokinetic transport models. Plasma Physics and Controlled Fusion, 2022, 64, 085001.	2.1	0