W W Lee

List of Publications by Year
in descending order

52 papers	4,204 citations	257450 24 h-index	243625 44 g-index
52 all docs	52 docs citations	52 times ranked	1281 citing authors

#	Article	IF	Citations
1	Turbulent Transport Reduction by Zonal Flows: Massively Parallel Simulations. , 1998, 281, 1835-1837.		870
2	Gyrokinetic approach in particle simulation. Physics of Fluids, 1983, 26, 556.	1.4	410
3	Gyrokinetic particle simulation model. Journal of Computational Physics, 1987, 72, 243-269.	3.8	383
4	A fully nonlinear characteristic method for gyrokinetic simulation. Physics of Fluids B, 1993, 5, 77-86.	1.7	304
5	Shearing rate of time-dependent EÃ—B flow. Physics of Plasmas, 1999, 6, 922-926.	1.9	248
6	Effects of Collisional Zonal Flow Damping on Turbulent Transport. Physical Review Letters, 1999, 83, 3645-3648.	7.8	237
7	Nonlinear gyrokinetic theory for finite-beta plasmas. Physics of Fluids, 1988, 31, 1940.	1.4	235
8	Gyrokinetic simulation of ion temperature gradient driven turbulence in 3D toroidal geometry. Physical Review Letters, 1993, 71, 2042-2045.	7.8	175
9	Partially Linearized Algorithms in Gyrokinetic Particle Simulation. Journal of Computational Physics, 1993, 107, 309-323.	3.8	140
10	Gyrokinetic particle simulation of neoclassical transport. Physics of Plasmas, 1995, 2, 2975-2988.	1.9	135
11	Gyro-kinetic simulation of global turbulent transport properties in tokamak experiments. Physics of Plasmas, 2006, 13, 092505.	1.9	117
12	Threeâ€dimensional hybrid gyrokineticâ€magnetohydrodynamics simulation. Physics of Fluids B, 1992, 4, 2033-2037.	1.7	115
13	Gyrokinetic particle simulation of ion temperature gradient drift instabilities. Physics of Fluids, 1988, 31, 612.	1.4	89
14	Gyrokinetic simulations in general geometry and applications to collisional damping of zonal flows. Physics of Plasmas, 2000, 7, 1857-1862.	1.9	77
15	Nonlocal properties of gyrokinetic turbulence and the role of EÃ—B flow shear. Physics of Plasmas, 2007, 14, 072306.	1.9	69
16	The split-weight particle simulation scheme for plasmas. Physics of Plasmas, 2000, 7, 1381-1385.	1.9	65
17	Shear-AlfvÃ©n waves in gyrokinetic plasmas. Physics of Plasmas, 2001, 8, 4435-4440.	1.9	65
18	Comparisons of gyrofluid and gyrokinetic simulations*. Physics of Plasmas, 1994, 1, 1461-1468.	1.9	48

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19	Gyrokinetic Studies on Turbulence-Driven and Neoclassical Nondiffusive Toroidal-Momentum Transport and the Effect of Residual Fluctuations in Strong<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>E</mml:mi><mml:mo>Ã—</mml:mo><mml:mi>B</mml:mi></mml:math>Shear. Physical Review Letters, 2009, 102, 035005.	7.8	48
20	Gyrocenter-gauge kinetic theory. Physics of Plasmas, 2000, 7, 4433-4445.	1.9	34
21	Large orbit neoclassical transport. Physics of Plasmas, 1997, 4, 1707-1713.	1.9	33
22	Gyrokinetic perpendicular dynamics. Physics of Plasmas, 1999, 6, 1575-1588.	1.9	33
23	Nonlinear evolution of drift instabilities. Physics of Fluids, 1984, 27, 2652.	1.4	32
24	Equilibrium fluctuation energy of gyrokinetic plasma. Physics of Fluids, 1986, 29, 2421.	1.4	32
25	Gyrokinetic simulation of isotope effects in tokamak plasmas. Physics of Plasmas, 1997, 4, 169-173.	1.9	32
26	AlfvÃ©n waves in gyrokinetic plasmas. Physics of Plasmas, 2003, 10, 3196-3203.	1.9	22
27	On the gyrokinetic equilibrium. Physics of Plasmas, 2000, 7, 991-1000.	1.9	20
28	Ion temperature drift instabilities in a sheared magnetic field. Physics of Fluids, 1980, 23, 2007.	1.4	16
29	Overview of theory and modeling in the heavy ion fusion virtual national laboratory. Laser and Particle Beams, 2002, 20, 377-384.	1.0	14
30	Finite-Î² simulation of microinstabilities. Physics of Plasmas, 2014, 21, 022505.	1.9	12
31	Fine-Scale Zonal Flow Suppression of Electron Temperature Gradient Turbulence. AIP Conference Proceedings, 2006, , .	0.4	11
32	On higher order corrections to gyrokinetic Vlasovâ€“Poisson equations in the long wavelength limit. Physics of Plasmas, 2009, 16, 044506.	1.9	11
33	Characteristics of turbulence-driven plasma flow and origin of experimental empirical scalings of intrinsic rotation. Physics of Plasmas, 2011, 18, 042502.	1.9	11
34	High frequency gyrokinetic particle simulation. Physics of Plasmas, 2007, 14, .	1.9	8
35	Nonlinear turbulent transport in magnetic fusion plasmas. Computational Science & Discovery, 2008, 1, 015010.	1.5	8
36	Equilibrium potential well due to finite Larmor radius effects at the tokamak edge. Physics of Plasmas, 2017, 24, .	1.9	7

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37	Nonlinear mechanisms for drift wave saturation and induced particle transport. Physics of Fluids B, 1991, 3, 1557-1569.	1.7	6
38	Fluctuations and discrete particle noise in gyrokinetic simulation of drift waves. Physics of Plasmas, 2007, 14, 032307.	1.9	6
39	A generalized weight-based particle-in-cell simulation scheme. Computer Physics Communications, 2011, 182, 564-569.	7.5	5
40	Magnetohydrodynamics for collisionless plasmas from the gyrokinetic perspective. Physics of Plasmas, 2016, 23, 070705.	1.9	4
41	Sheared-flow modes in toroidal geometry. Physics of Plasmas, 2000, 7, 588-595.	1.9	3
42	Theoretical and numerical properties of a gyrokinetic plasma: issues related to transport time scale simulation. Computer Physics Communications, 2004, 164, 244-250.	7.5	3
43	Anomalous Diffusion and Ion Heating in the Presence of Electrostatic Hydrogen Cyclotron Instabilities. Geophysical Monograph Series, 2013, , 283-287.	0.1	3
44	3D simulation studies of the two-stream instability in intense particle beams based on the Vlasov-Maxwell equations. , 0, , .		2
45	Gyrokinetic magnetohydrodynamics and the associated equilibria. Physics of Plasmas, 2017, 24, 124508.	1.9	2
46	Response to â€œComment on â€˜Equilibrium potential well due to finite Larmor radius effects at the tokamak edgeâ€™â€•[Phys. Plasmas 25, 054701 (2018)]. Physics of Plasmas, 2018, 25, 054702.	1.9	2
47	Multiscale Turbulence Simulation and Steady State Transport. , 2008, , .		1
48	Response to â€œComment on â€˜On higher-order corrections to gyrokinetic Vlasovâ€“Poisson equations in the long wavelength limitâ€™â€•[Phys. Plasmas 16, 124701 (2009)]. Physics of Plasmas, 2009, 16, 124702.	1.9	1
49	Kinetic simulation of microinstabilities in tokamak plasmas. AIP Conference Proceedings, 1994, , .	0.4	0
50	High Frequency Gyrokinetic Particle-in-Cell Simulation: Application to Heating of Magnetically Confined Plasmas. AIP Conference Proceedings, 2007, , .	0.4	0
51	Finite Larmor radius effects at the high confinement mode pedestal and the related force-free steady state. Physics of Plasmas, 2019, 26, 040701.	1.9	0
52	Nonlinear Î´ F simulation studies of intense charged particle beams with large pressure anisotropy. , 0, , .		0