Ronald E Waltz

List of Publications by Year in descending order

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48 4,201 2 papers citations h-i

28 48
h-index g-index

206112

49 49 all docs citations

49 times ranked 1400 citing authors

#	Article	IF	CITATIONS
1	A gyro-Landau-fluid transport model. Physics of Plasmas, 1997, 4, 2482-2496.	1.9	493
2	Toroidal gyroâ€Landau fluid model turbulence simulations in a nonlinear ballooning mode representation with radial modes. Physics of Plasmas, 1994, 1, 2229-2244.	1.9	422
3	Noncircular, finite aspect ratio, local equilibrium model. Physics of Plasmas, 1998, 5, 973-978.	1.9	420
4	A theory-based transport model with comprehensive physics. Physics of Plasmas, 2007, 14, 055909.	1.9	303
5	Anomalous Transport Scaling in the DIII-D Tokamak Matched by Supercomputer Simulation. Physical Review Letters, 2003, 91, 045001.	7.8	234
6	Gyro-Landau fluid equations for trapped and passing particles. Physics of Plasmas, 2005, 12, 102508.	1.9	203
7	Tokamak profile prediction using direct gyrokinetic and neoclassical simulation. Physics of Plasmas, 2009, 16, .	1.9	175
8	lon temperature gradient turbulence simulations and plasma flux surface shape. Physics of Plasmas, 1999, 6, 4265-4271.	1.9	162
9	The first transport code simulations using the trapped gyro-Landau-fluid model. Physics of Plasmas, 2008, 15, .	1.9	129
10	Theory and simulation of rotational shear stabilization of turbulence. Physics of Plasmas, 1998, 5, 1784-1792.	1.9	127
11	Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. Physics of Plasmas, 2009, $16, \ldots$	1.9	119
12	Gyrokinetic simulations of ion and impurity transport. Physics of Plasmas, 2005, 12, 022305.	1.9	107
13	Measurements of core electron temperature and density fluctuations in DIII-D and comparison to nonlinear gyrokinetic simulations. Physics of Plasmas, 2008, 15 , .	1.9	102
14	Gyroâ€Landau fluid models for toroidal geometry. Physics of Fluids B, 1992, 4, 3138-3151.	1.7	96
15	The local limit of global gyrokinetic simulations. Physics of Plasmas, 2004, 11, L25-L28.	1.9	89
16	Coupled ion temperature gradient and trapped electron mode to electron temperature gradient mode gyrokinetic simulations. Physics of Plasmas, 2007, 14, 056116.	1.9	84
17	Gyrokinetic theory and simulation of angular momentum transport. Physics of Plasmas, 2007, 14, 122507.	1.9	80
18	Measurements of the cross-phase angle between density and electron temperature fluctuations and comparison with gyrokinetic simulations. Physics of Plasmas, 2010, 17, 056103.	1.9	77

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19	Gyrokinetic simulations of off-axis minimum-q profile corrugations. Physics of Plasmas, 2006, 13, 052301.	1.9	7 5
20	Advances in validating gyrokinetic turbulence models against L- and H-mode plasmas. Physics of Plasmas, 2011, 18, 056113.	1.9	69
21	The effect of ion-scale dynamics on electron-temperature-gradient turbulence. Plasma Physics and Controlled Fusion, 2007, 49, 1209-1220.	2.1	64
22	Magnetic fluctuations, ambipolarity, charge filamentation, and plasma rotation in tokamaks. Physics of Fluids, 1982, 25, 1269.	1.4	56
23	Gyrokinetic simulations of mesoscale energetic particle-driven Alfvénic turbulent transport embedded in microturbulence. Physics of Plasmas, 2010, 17, 112319.	1.9	56
24	Particle pinch and collisionality in gyrokinetic simulations of tokamak plasma turbulence. Physics of Plasmas, 2009, 16, 060702.	1.9	55
25	Velocity-space resolution, entropy production, and upwind dissipation in Eulerian gyrokinetic simulations. Physics of Plasmas, 2006, 13, 032310.	1.9	39
26	Gyrokinetic simulation of global and local Alfv \tilde{A} @n eigenmodes driven by energetic particles in a DIII-D discharge. Physics of Plasmas, 2013, 20, .	1.9	39
27	Studies of turbulence and transport in Alcator C-Mod ohmic plasmas with phase contrast imaging and comparisons with gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2009, 51, 065006.	2.1	34
28	Reversal of Simple Hydrogenic Isotope Scaling Laws in Tokamak Edge Turbulence. Physical Review Letters, 2020, 125, 015001.	7.8	32
29	Projected profile similarity in gyrokinetic simulations of Bohm and gyro-Bohm scaled DIII-D L and H modes. Physics of Plasmas, 2006, 13, 072304.	1.9	24
30	Predictions of the near edge transport shortfall in DIII-D L-mode plasmas using the trapped gyro-Landau-fluid model. Physics of Plasmas, 2015, 22, 012507.	1.9	24
31	Gyrokinetic simulations with external resonant magnetic perturbations: Island torque and nonambipolar transport with plasma rotation. Physics of Plasmas, 2012, 19, 032508.	1.9	23
32	Alfv \tilde{A} @n eigenmode stability and critical gradient energetic particle transport using the Trapped-Gyro-Landau-Fluid model. Physics of Plasmas, 2017, 24, 072305.	1.9	21
33	Reversal of turbulent gyroBohm isotope scaling due to nonadiabatic electron drive. Physics of Plasmas, 2019, 26, .	1.9	20
34	On the nature of rotational shear stabilization in toroidal geometry and its numerical representation. Physics of Plasmas, 1994, 1, 2835-2842.	1.9	18
35	Reduced equations for electromagnetic turbulence in tokamaks. Physics of Plasmas, 2003, 10, 168-178.	1.9	18
36	Density peaking and turbulent pinch in DIII-D discharges. Physics of Plasmas, 2006, 13, 074505.	1.9	17

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37	Nonlinear theory of drift-cyclotron kinetics and the possible breakdown of gyro-kinetics. Physics of Plasmas, 2013, 20, .	1.9	15
38	Prediction of Alfv \tilde{A} ©n eigenmode energetic particle transport in ITER scenarios with a critical gradient model. Nuclear Fusion, 2020, 60, 016032.	3.5	13
39	Multispecies density peaking in gyrokinetic turbulence simulations of low collisionality Alcator C-Mod plasmas. Physics of Plasmas, 2015, 22, .	1.9	12
40	Quasilinear model for energetic particle diffusion in radial and velocity space. Physics of Plasmas, 2013, 20, .	1.9	11
41	Theory and simulation of quasilinear transport from external magnetic field perturbations in a DIII-D plasma. Physics of Plasmas, 2015, 22, .	1.9	8
42	Nonlinear verification of a linear critical gradient model for energetic particle transport by AlfvÃ@n eigenmodes. Physics of Plasmas, 2017, 24, .	1.9	8
43	Anti-symmetric plasma moment equations with conservative discrete counterparts. Physics of Plasmas, 2018, 25, .	1.9	8
44	Testing the high turbulence level breakdown of low-frequency gyrokinetics against high-frequency	1.9	5
45	Quasilinear critical gradient model for Alfven eigenmode driven energetic particle transport with intermittency. Nuclear Fusion, 2021, 61, 036043.	3.5	2
46	Simulations of plasmas and fluids using anti-symmetric models. Journal of Computational Physics, 2021, 445, 110631.	3.8	2
47	Cyclokinetic models and simulations for high-frequency turbulence in fusion plasmas. Frontiers of Physics, $2016, 11, 1$.	5.0	1
48	Overview of the CIT Physics Design. Fusion Science and Technology, 1991, 19, 1109-1114.	0.6	0