

# Jeff Candy

## List of Publications by Year in descending order

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183  
papers

8,321  
citations

31902

53  
h-index

56606

83  
g-index

187  
all docs

187  
docs citations

187  
times ranked

2313  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Eulerian gyrokinetic-Maxwell solver. <i>Journal of Computational Physics</i> , 2003, 186, 545-581.	1.9	543
2	Kinetic calculation of neoclassical transport including self-consistent electron and impurity dynamics. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 095010.	0.9	277
3	Integrated modeling applications for tokamak experiments with OMFIT. <i>Nuclear Fusion</i> , 2015, 55, 083008.	1.6	246
4	Anomalous Transport Scaling in the DIII-D Tokamak Matched by Supercomputer Simulation. <i>Physical Review Letters</i> , 2003, 91, 045001.	2.9	234
5	A symplectic integration algorithm for separable Hamiltonian functions. <i>Journal of Computational Physics</i> , 1991, 92, 230-256.	1.9	218
6	Tokamak profile prediction using direct gyrokinetic and neoclassical simulation. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	175
7	The HAGIS self-consistent nonlinear wave-particle interaction model. <i>Computer Physics Communications</i> , 1998, 111, 133-149.	3.0	174
8	Full linearized Fokker-Planck collisions in neoclassical transport simulations. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 015015.	0.9	154
9	Spontaneous hole-clump pair creation. <i>Physics of Plasmas</i> , 1999, 6, 3102-3113.	0.7	127
10	Implementation and application of two synthetic diagnostics for validating simulations of core tokamak turbulence. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	119
11	Electromagnetic Transport from Microtearing Mode Turbulence. <i>Physical Review Letters</i> , 2011, 106, 155004.	2.9	118
12	ITER predictions using the GYRO verified and experimentally validated trapped gyro-Landau fluid transport model. <i>Nuclear Fusion</i> , 2011, 51, 083001.	1.6	116
13	A high-accuracy Eulerian gyrokinetic solver for collisional plasmas. <i>Journal of Computational Physics</i> , 2016, 324, 73-93.	1.9	112
14	Gyrokinetic simulations of ion and impurity transport. <i>Physics of Plasmas</i> , 2005, 12, 022305.	0.7	107
15	Measurements of core electron temperature and density fluctuations in DIII-D and comparison to nonlinear gyrokinetic simulations. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	102
16	Multi-scale gyrokinetic simulation of tokamak plasmas: enhanced heat loss due to cross-scale coupling of plasma turbulence. <i>Nuclear Fusion</i> , 2016, 56, 014004.	1.6	100
17	Characterizing electron temperature gradient turbulence via numerical simulation. <i>Physics of Plasmas</i> , 2006, 13, 122306.	0.7	99
18	Beta scaling of transport in microturbulence simulations. <i>Physics of Plasmas</i> , 2005, 12, 072307.	0.7	98

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19	Nonlinear gyrokinetic turbulence simulations of E $\times$ B shear quenching of transport. Physics of Plasmas, 2005, 12, 062302.	0.7	96
20	New Edge Coherent Mode Providing Continuous Transport in Long-Pulse H-mode Plasmas. Physical Review Letters, 2014, 112, 185004.	2.9	93
21	L-mode validation studies of gyrokinetic turbulence simulations via multiscale and multifield turbulence measurements on the DIII-D tokamak. Nuclear Fusion, 2011, 51, 063022.	1.6	92
22	The role of zonal flows in the saturation of multi-scale gyrokinetic turbulence. Physics of Plasmas, 2016, 23, .	0.7	91
23	Symplectic integrators for long-term integrations in celestial mechanics. Celestial Mechanics and Dynamical Astronomy, 1991, 52, 221-240.	0.5	89
24	The local limit of global gyrokinetic simulations. Physics of Plasmas, 2004, 11, L25-L28.	0.7	89
25	20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, .	0.7	88
26	Gyrokinetic simulations of impurity, He ash and $\hat{\Gamma}_{\pm}$ particle transport and consequences on ITER transport modelling. Nuclear Fusion, 2009, 49, 055013.	1.6	86
27	Coupled ion temperature gradient and trapped electron mode to electron temperature gradient mode gyrokinetic simulations. Physics of Plasmas, 2007, 14, 056116.	0.7	84
28	Gyrokinetic theory and simulation of angular momentum transport. Physics of Plasmas, 2007, 14, 122507.	0.7	80
29	More on core-localized toroidal Alfvén eigenmodes. Physics of Plasmas, 1995, 2, 3401-3406.	0.7	79
30	Self-consistent core-pedestal transport simulations with neural network accelerated models. Nuclear Fusion, 2017, 57, 086034.	1.6	78
31	Turbulent transport of alpha particles in reactor plasmas. Physics of Plasmas, 2006, 13, 112303.	0.7	77
32	New Paradigm for Suppression of Gyrokinetic Turbulence by Velocity Shear. Physical Review Letters, 2013, 110, 055003.	2.9	76
33	Gyrokinetic simulations of off-axis minimum-q profile corrugations. Physics of Plasmas, 2006, 13, 052301.	0.7	75
34	Validating a quasi-linear transport model versus nonlinear simulations. Nuclear Fusion, 2009, 49, 085012.	1.6	72
35	Fully electromagnetic gyrokinetic eigenmode analysis of high-beta shaped plasmas. Physics of Plasmas, 2010, 17, .	0.7	72
36	Turbulence in the TORE SUPRA Tokamak: Measurements and Validation of Nonlinear Simulations. Physical Review Letters, 2009, 102, 165005.	2.9	71

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37	A unified method for operator evaluation in local Grad-Shafranov plasma equilibria. Plasma Physics and Controlled Fusion, 2009, 51, 105009.	0.9	70
38	Advances in validating gyrokinetic turbulence models against L- and H-mode plasmas. Physics of Plasmas, 2011, 18, 056113.	0.7	69
39	An Eulerian method for the solution of the multi-species drift-kinetic equation. Plasma Physics and Controlled Fusion, 2009, 51, 075018.	0.9	68
40	A model of the saturation of coupled electron and ion scale gyrokinetic turbulence. Nuclear Fusion, 2017, 57, 066046.	1.6	68
41	Progress in simulating turbulent electron thermal transport in NSTX. Nuclear Fusion, 2013, 53, 093022.	1.6	67
42	The effect of ion-scale dynamics on electron-temperature-gradient turbulence. Plasma Physics and Controlled Fusion, 2007, 49, 1209-1220.	0.9	64
43	Nonideal theory of toroidal Alfvén eigenmodes. Physics of Plasmas, 1994, 1, 356-372.	0.7	63
44	Beta scaling of transport on the DIII-D Tokamak: Is transport electrostatic or electromagnetic?. Physics of Plasmas, 2004, 11, 2514-2522.	0.7	63
45	The effect of plasma shaping on turbulent transport and E <sub>z</sub> -B shear quenching in nonlinear gyrokinetic simulations. Physics of Plasmas, 2007, 14, 102306.	0.7	62
46	Collisionality and safety factor scalings of H-mode energy transport in the MAST spherical tokamak. Nuclear Fusion, 2011, 51, 073045.	1.6	62
47	Smoothness of turbulent transport across a minimum-q surface. Physics of Plasmas, 2004, 11, 1879-1890.	0.7	61
48	The effect of safety factor and magnetic shear on turbulent transport in nonlinear gyrokinetic simulations. Physics of Plasmas, 2006, 13, 022305.	0.7	61
49	Quantitative comparison of experimental impurity transport with nonlinear gyrokinetic simulation in an Alcator C-Mod L-mode plasma. Nuclear Fusion, 2012, 52, 063002.	1.6	60
50	Improved understanding of physics processes in pedestal structure, leading to improved predictive capability for ITER. Nuclear Fusion, 2013, 53, 093024.	1.6	59
51	Multi-scale gyrokinetic simulations: Comparison with experiment and implications for predicting turbulence and transport. Physics of Plasmas, 2016, 23, .	0.7	59
52	Integrated fusion simulation with self-consistent core-pedestal coupling. Physics of Plasmas, 2016, 23, .	0.7	56
53	Particle pinch and collisionality in gyrokinetic simulations of tokamak plasma turbulence. Physics of Plasmas, 2009, 16, 060702.	0.7	55
54	Scaling of linear microtearing stability for a high collisionality National Spherical Torus Experiment discharge. Physics of Plasmas, 2012, 19, .	0.7	54

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55	Simulation of microtearing turbulence in national spherical torus experiment. <i>Physics of Plasmas</i> , 2012, 19, 056119.	0.7	53
56	Synergistic cross-scale coupling of turbulence in a tokamak plasma. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	52
57	Zonal-flow-driven nonlinear energy transfer in experiment and simulation. <i>Physics of Plasmas</i> , 2007, 14, 056112.	0.7	50
58	Multi-channel transport experiments at Alcator C-Mod and comparison with gyrokinetic simulations. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	48
59	Edge gyrokinetic theory and continuum simulations. <i>Nuclear Fusion</i> , 2007, 47, 809-816.	1.6	46
60	Isotope mass and charge effects in tokamak plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	46
61	Multiplicity of low-shear toroidal Alfvén eigenmodes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 215, 299-304.	0.9	45
62	A correlation electron cyclotron emission diagnostic and the importance of multifield fluctuation measurements for testing nonlinear gyrokinetic turbulence simulations. <i>Review of Scientific Instruments</i> , 2008, 79, 103505.	0.6	44
63	Neural-network accelerated coupled core-pedestal simulations with self-consistent transport of impurities and compatible with ITER IMAS. <i>Nuclear Fusion</i> , 2021, 61, 026006.	1.6	42
64	Resolving electron scale turbulence in spherical tokamaks with flow shear. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	40
65	Velocity-space resolution, entropy production, and upwind dissipation in Eulerian gyrokinetic simulations. <i>Physics of Plasmas</i> , 2006, 13, 032310.	0.7	39
66	Validation of the gyrokinetic model in ITG and TEM dominated L-mode plasmas. <i>Nuclear Fusion</i> , 2013, 53, 123011.	1.6	39
67	H-mode grade confinement in L-mode edge plasmas at negative triangularity on DIII-D. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	38
68	Investigation of the transport shortfall in Alcator C-Mod L-mode plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	37
69	Geometry dependence of the fluctuation intensity in gyrokinetic turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 015013.	0.9	37
70	Heuristic theory of nonlocally broken gyro-Bohm scaling. <i>Physics of Plasmas</i> , 2005, 12, 072303.	0.7	36
71	Advances in comprehensive gyrokinetic simulations of transport in tokamaks. <i>Nuclear Fusion</i> , 2005, 45, 741-750.	1.6	36
72	Super H-mode: theoretical prediction and initial observations of a new high performance regime for tokamak operation. <i>Nuclear Fusion</i> , 2015, 55, 083026.	1.6	36

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73	Nonlinear modeling of kinetic plasma instabilities. <i>Physics of Plasmas</i> , 1999, 6, 1822-1829.	0.7	35
74	Linear gyrokinetic analysis of a DIII-D H-mode pedestal near the ideal ballooning threshold. <i>Nuclear Fusion</i> , 2012, 52, 103015.	1.6	35
75	Investigations of the role of nonlinear couplings in structure formation and transport regulation: experiment, simulation, and theory. <i>Nuclear Fusion</i> , 2003, 43, 761-780.	1.6	34
76	Studies of turbulence and transport in Alcator C-Mod ohmic plasmas with phase contrast imaging and comparisons with gyrokinetic simulations. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 065006.	0.9	34
77	Magnetic Stochasticity in Gyrokinetic Simulations of Plasma Microturbulence. <i>Physical Review Letters</i> , 2011, 106, 065003.	2.9	34
78	Collisionality scaling of main-ion toroidal and poloidal rotation in low torque DIII-D plasmas. <i>Nuclear Fusion</i> , 2013, 53, 063010.	1.6	34
79	Theory of Alfvén eigenmode instabilities and related alpha particle transport in JET deuterium-tritium plasmas. <i>Nuclear Fusion</i> , 1998, 38, 1315-1332.	1.6	33
80	Progress in GYRO validation studies of DIII-D H-mode plasmas. <i>Nuclear Fusion</i> , 2012, 52, 114007.	1.6	33
81	Nonlinear interaction of fast particles with Alfvén waves in toroidal plasmas. <i>Physics of Plasmas</i> , 1997, 4, 2597-2611.	0.7	32
82	Internal transport barriers in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	32
83	Reversal of Simple Hydrogenic Isotope Scaling Laws in Tokamak Edge Turbulence. <i>Physical Review Letters</i> , 2020, 125, 015001.	2.9	32
84	Verification of gyrokinetic $\hat{f}$ simulations of electron temperature gradient turbulence. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	31
85	The effects of dilution on turbulence and transport in C-Mod ohmic plasmas and comparisons with gyrokinetic simulations. <i>Physics of Plasmas</i> , 2015, 22, 072507.	0.7	31
86	Broad wavenumber turbulence and transport during Ohmic and electron cyclotron heating in the DIII-D tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B183-B193.	0.9	30
87	A new paradigm for $E \times B$ velocity shear suppression of gyro-kinetic turbulence and the momentum pinch. <i>Nuclear Fusion</i> , 2013, 53, 113017.	1.6	30
88	Testing predictions of electron scale turbulent pedestal transport in two DIII-D ELMy H-modes. <i>Nuclear Fusion</i> , 2021, 61, 056005.	1.6	30
89	Alpha-particle-driven nonideal toroidal Alfvén eigenmodes. <i>Plasma Physics and Controlled Fusion</i> , 1993, 35, 957-971.	0.9	29
90	Multi-scale gyrokinetic simulation of Alcator C-Mod tokamak discharges. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	29

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91	Verification of a quasi-linear model for gyrokinetic turbulent transport. Nuclear Fusion, 2021, 61, 116007.	1.6	29
92	Effects of electromagnetic turbulence in the neoclassical Ohm's law. Physics of Plasmas, 2004, 11, 2433-2440.	0.7	28
93	Plasma rotation and transport in MAST spherical tokamak. Nuclear Fusion, 2011, 51, 063006.	1.6	28
94	Transport and turbulence studies in the linear ohmic confinement regime in Alcator C-Mod. Plasma Physics and Controlled Fusion, 2012, 54, 124029.	0.9	28
95	Relevance of the parallel nonlinearity in gyrokinetic simulations of tokamak plasmas. Physics of Plasmas, 2006, 13, 074501.	0.7	27
96	Poloidally and radially resolved parallel D+ velocity measurements in the DIII-D boundary and comparison to neoclassical computations. Physics of Plasmas, 2011, 18, 032510.	0.7	27
97	Pfirsch-Schlüter neoclassical heavy impurity transport in a rotating plasma. Plasma Physics and Controlled Fusion, 2014, 56, 124002.	0.9	26
98	Role of Microtearing Turbulence in DIII-D High Bootstrap Current Fraction Plasmas. Physical Review Letters, 2019, 123, 225002.	2.9	26
99	Implications of advanced collision operators for gyrokinetic simulation. Plasma Physics and Controlled Fusion, 2017, 59, 045005.	0.9	25
100	Projected profile similarity in gyrokinetic simulations of Bohm and gyro-Bohm scaled DIII-D L and H modes. Physics of Plasmas, 2006, 13, 072304.	0.7	24
101	Measurement of plasma current dependent changes in impurity transport and comparison with nonlinear gyrokinetic simulation. Physics of Plasmas, 2012, 19, .	0.7	24
102	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.	0.7	24
103	Formation of a High Pressure Staircase Pedestal with Suppressed Edge Localized Modes in the DIII-D Tokamak. Physical Review Letters, 2019, 123, 115001.	2.9	24
104	Validation studies of gyrofluid and gyrokinetic predictions of transport and turbulence stiffness using the DIII-D tokamak. Nuclear Fusion, 2013, 53, 083027.	1.6	22
105	Nonlinear ion waves driven by the periodic ponderomotive force. Physical Review Letters, 1990, 65, 1889-1892.	2.9	21
106	Mode structure and stability of toroidal Alfvén eigenmodes in ITER and TFTR DT plasmas. Nuclear Fusion, 1995, 35, 1069-1097.	1.6	21
107	On the theory of internal kink oscillations. Physics of Plasmas, 1998, 5, 2326-2333.	0.7	21
108	Gyrokinetic simulations of ETG and ITG turbulence. Nuclear Fusion, 2007, 47, 817-824.	1.6	21

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109	Influence of magnetic shear on impurity transport. <i>Physics of Plasmas</i> , 2007, 14, 052303.	0.7	21
110	Gyrokinetic study of the role of $\hat{r}^2$ on electron particle transport in tokamaks. <i>Physics of Plasmas</i> , 2010, 17, 102309.	0.7	21
111	Gradient-driven flux-tube simulations of ion temperature gradient turbulence close to the non-linear threshold. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	21
112	Validation of nonlinear gyrokinetic simulations of L- and I-mode plasmas on Alcator C-Mod. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	21
113	A Numerical Method for Solution of the Generalized Liouville Equation. <i>Journal of Computational Physics</i> , 1996, 129, 160-169.	1.9	20
114	Pedestal and core confinement of hybrid scenario in ASDEX Upgrade and DIII-D. <i>Nuclear Fusion</i> , 2010, 50, 025023.	1.6	20
115	Suppressing electron turbulence and triggering internal transport barriers with reversed magnetic shear in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	20
116	Impact of centrifugal drifts on ion turbulent transport. <i>Physics of Plasmas</i> , 2018, 25, 032301.	0.7	20
117	Reversal of turbulent gyroBohm isotope scaling due to nonadiabatic electron drive. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	20
118	Linear and nonlinear verification of gyrokinetic microstability codes. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	19
119	Electron heat transport from stochastic fields in gyrokinetic simulations. <i>Physics of Plasmas</i> , 2011, 18, 056111.	0.7	18
120	Fidelity of reduced and realistic electron mass ratio multi-scale gyrokinetic simulations of tokamak discharges. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 065009.	0.9	18
121	Density peaking and turbulent pinch in DIII-D discharges. <i>Physics of Plasmas</i> , 2006, 13, 074505.	0.7	17
122	Limitations of bootstrap current models. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 045006.	0.9	17
123	Benchmarking the GENE and GYRO codes through the relative roles of electromagnetic and $\langle i \rangle$ stabilization in JET high-performance discharges. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 125018.	0.7	17
124	A verification of the gyrokinetic microstability codes GEM, GYRO, and GS2. <i>Physics of Plasmas</i> , 2013, 20, 104506.	0.7	16
125	The effect of diamagnetic flows on turbulent driven ion toroidal rotation. <i>Physics of Plasmas</i> , 2014, 21, 056106.	0.7	16
126	Nonlinear gyrokinetic simulations of the I-mode high confinement regime and comparisons with	0.7	16



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127	On the effects of the equilibrium model in gyrokinetic simulations: from $s$ - $\hat{\Gamma}_{\pm}$ to diverted MHD equilibrium. Journal of Physics: Conference Series, 2010, 260, 012006.	0.3	15
128	Testing gyrokinetic simulations of electron turbulence. Nuclear Fusion, 2012, 52, 063028.	1.6	15
129	Turbulent energy exchange: Calculation and relevance for profile prediction. Physics of Plasmas, 2013, 20, 082503.	0.7	15
130	Alcator C-Mod: research in support of ITER and steps beyond. Nuclear Fusion, 2015, 55, 104020.	1.6	14
131	Effect of impurities on collisional zonal flow damping in tokamaks. Plasma Physics and Controlled Fusion, 2009, 51, 065011.	0.9	13
132	Dynamics of kinetic geodesic-acoustic modes and the radial electric field in tokamak neoclassical plasmas. Nuclear Fusion, 2009, 49, 065023.	1.6	13
133	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	1.6	13
134	Impurity transport, turbulence transitions and intrinsic rotation in Alcator C-Mod plasmas. Plasma Physics and Controlled Fusion, 2014, 56, 124004.	0.9	13
135	Spectral treatment of gyrokinetic shear flow. Journal of Computational Physics, 2018, 356, 448-457.	1.9	13
136	Nonlinear gyrokinetic predictions of SPARC burning plasma profiles enabled by surrogate modeling. Nuclear Fusion, 2022, 62, 076036.	1.6	13
137	Turbulent transport of impurities and their effect on energy confinement. Plasma Physics and Controlled Fusion, 2013, 55, 074012.	0.9	12
138	Multispecies density peaking in gyrokinetic turbulence simulations of low collisionality Alcator C-Mod plasmas. Physics of Plasmas, 2015, 22, .	0.7	12
139	Multi-scale gyrokinetic simulations of an Alcator C-Mod, ELM-y H-mode plasma. Plasma Physics and Controlled Fusion, 2018, 60, 014034.	0.9	12
140	Gyrokinetic simulation of turbulence and transport in the SPARC tokamak. Physics of Plasmas, 2021, 28, .	0.7	12
141	Electron Landau damping of toroidal Alfvén eigenmodes. Plasma Physics and Controlled Fusion, 1996, 38, 795-801.	0.9	11
142	Validating simulations of core tokamak turbulence: current status and future directions. Journal of Physics: Conference Series, 2008, 125, 012043.	0.3	11
143	Gyrokinetic study of electromagnetic effects on toroidal momentum transport in tokamak plasmas. Physics of Plasmas, 2011, 18, .	0.7	11
144	Resolving the mystery of transport within internal transport barriers. Physics of Plasmas, 2014, 21, 055902.	0.7	11

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145	Neoclassical transport in toroidal plasmas with nonaxisymmetric flux surfaces. Plasma Physics and Controlled Fusion, 2015, 57, 054012.	0.9	11
146	DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy. Nuclear Fusion, 2022, 62, 042024.	1.6	11
147	Turbulent momentum transport due to neoclassical flows. Plasma Physics and Controlled Fusion, 2015, 57, 125006.	0.9	10
148	Spectral treatment of gyrokinetic profile curvature. Plasma Physics and Controlled Fusion, 2020, 62, 042001.	0.9	10
149	Benchmark studies of the gyro-Landau-fluid code and gyro-kinetic codes on kinetic ballooning modes. Physics of Plasmas, 2016, 23, 032119.	0.7	9
150	Multiscale-optimized plasma turbulence simulation on petascale architectures. Computers and Fluids, 2019, 188, 125-135.	1.3	9
151	Rapidly-convergent flux-surface shape parameterization. Plasma Physics and Controlled Fusion, 2021, 63, 012001.	0.9	9
152	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	0.7	9
153	Interpreting radial correlation Doppler reflectometry using gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2022, 64, 055019.	0.9	9
154	Rational resonances in a wave driven linear oscillator. Physica D: Nonlinear Phenomena, 1991, 52, 267-276.	1.3	8
155	GYRO: A 5-D Gyrokinetic-Maxwell Solver. , 0, , .		8
156	Plasma microturbulence simulation of instabilities at highly disparate scales. Journal of Physics: Conference Series, 2007, 78, 012008.	0.3	8
157	First results from core-edge parallel composition in the FACETS project. Journal of Physics: Conference Series, 2008, 125, 012040.	0.3	8
158	Collisional model of quasilinear transport driven by toroidal electrostatic ion temperature gradient modes. Physics of Plasmas, 2009, 16, .	0.7	8
159	Concurrent, parallel, multiphysics coupling in the FACETS project. Journal of Physics: Conference Series, 2009, 180, 012056.	0.3	8
160	Fluid moments of the nonlinear Landau collision operator. Physics of Plasmas, 2016, 23, .	0.7	8
161	Role of microtearing mode in DIII-D and future high- $\hat{q}$ core plasmas. Physics of Plasmas, 2021, 28, .	0.7	8
162	Feasibility study for a correlation electron cyclotron emission turbulence diagnostic based on nonlinear gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2011, 53, 115003.	0.9	7

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163	Quantitative comparisons of electron-scale turbulence measurements in NSTX via synthetic diagnostics for high- $k$ scattering. Plasma Physics and Controlled Fusion, 2020, 62, 075001.	0.9	7
164	Validation of gyrokinetic simulations of a National Spherical Torus eXperiment H-mode plasma and comparisons with a high- $k$ scattering synthetic diagnostic. Plasma Physics and Controlled Fusion, 2019, 61, 115015.	0.9	6
165	Introducing FACETS, the Framework Application for Core-Edge Transport Simulations. Journal of Physics: Conference Series, 2007, 78, 012086.	0.3	5
166	The Gaussian radial basis function method for plasma kinetic theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2735-2739.	0.9	5
167	The role of ion and electron-scale turbulence in setting heat and particle transport in the DIII-D ITER baseline scenario. Nuclear Fusion, 2021, 61, 106002.	1.6	5
168	Drift-Kinetic Simulations of Neoclassical Transport. , 2008, , .		4
169	The effects of main-ion dilution on turbulence in low $q_{95}$ C-Mod ohmic plasmas, and comparisons with nonlinear GYRO. Physics of Plasmas, 2016, 23, 082509.	0.7	4
170	Asymmetry between deuterium and tritium turbulent particle flows. Physics of Plasmas, 2021, 28, .	0.7	4
171	Validation of gyrokinetic simulations in NSTX and projections for high- $k$ turbulence measurements in NSTX-U. Physics of Plasmas, 2020, 27, 122505.	0.7	4
172	Neoclassical transport analysis of high rotational trace limit tungsten impurities in KSTAR tokamak. Physics of Plasmas, 2022, 29, 022504.	0.7	4
173	The effect of electron cyclotron heating on density fluctuations at ion and electron scales in ITER baseline scenario discharges on the DIII-D tokamak. Nuclear Fusion, 2017, 57, 126014.	1.6	3
174	Neoclassical Transport Including Collisional Nonlinearity. Physical Review Letters, 2011, 106, 235003.	2.9	2
175	Non-axisymmetric local magnetostatic equilibrium. Journal of Plasma Physics, 2015, 81, .	0.7	2
176	Quasi-linear gyrokinetic predictions of the Coriolis momentum pinch in National Spherical Torus Experiment. Physics of Plasmas, 2016, 23, 052508.	0.7	2
177	An Added-Mass Measurement Technique for Transducer Parameter Estimation. AES: Journal of the Audio Engineering Society, 2017, 65, 1005-1016.	0.8	2
178	Performance analysis of GYRO: a tool evaluation. Journal of Physics: Conference Series, 2005, 16, 551-555.	0.3	1
179	Feasibility study for a high- $k$ temperature fluctuation diagnostic based on soft x-ray imaging. Review of Scientific Instruments, 2021, 92, 053537.	0.6	1
180	Comparing single-node and multi-node performance of an important fusion HPC code benchmark. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
181	A Contour Integral Method for Time-Domain Response Calculations. AES: Journal of the Audio Engineering Society, 2018, 66, 360-368.	0.8	0
182	CGYRO Performance on Power9 CPUs and Volta GPUs. Lecture Notes in Computer Science, 2018, , 365-372.	1.0	0
183	Equilibrium reconstruction of DIII-D plasmas using predictive modeling of the pressure profile. Physics of Plasmas, 2022, 29, 062502.	0.7	0