Daniel Told

List of Publications by Year
in descending order

68 papers	2,196 citations	201674 27 h-index	233421 45 g-index
68 all docs	68 docs citations	68 times ranked	1688 citing authors

#	Article	IF	Citations
1	The global version of the gyrokinetic turbulence code GENE. Journal of Computational Physics, 2011, 230, 7053-7071.	3.8	274
2	Nonlinear Stabilization of Tokamak Microturbulence by Fast Ions. Physical Review Letters, 2013, 111, 155001.	7.8	161
3	Multiscale Nature of the Dissipation Range in Gyrokinetic Simulations of AlfvÃ©nic Turbulence. Physical Review Letters, 2015, 115, 025003.	7.8	88
4	Microtearing turbulence limiting the JET-ILW pedestal. Nuclear Fusion, 2016, 56, 104003.	3.5	84
5	Gyrokinetic microinstabilities in ASDEX Upgrade edge plasmas. Physics of Plasmas, 2008, 15, .	1.9	74
6	Controlling Turbulence in Present and Future Stellarators. Physical Review Letters, 2014, 113, 155001.	7.8	70
7	Electromagnetic stabilization of tokamak microturbulence in a high-Î²regime. Plasma Physics and Controlled Fusion, 2015, 57, 014032.	2.1	70
8	A flux-matched gyrokinetic analysis of DIII-D L-mode turbulence. Physics of Plasmas, 2014, 21, .	1.9	62
9	SUBPROTON-SCALE CASCADES IN SOLAR WIND TURBULENCE: DRIVEN HYBRID-KINETIC SIMULATIONS. Astrophysical Journal Letters, 2016, 822, L12.	8.3	61
10	Fully Kinetic versus Reduced-kinetic Modeling of Collisionless Plasma Turbulence. Astrophysical Journal, 2017, 847, 28.	4.5	60
11	Gyrokinetic prediction of microtearing turbulence in standard tokamaks. Physics of Plasmas, 2012, 19, .	1.9	59
12	Novel free-boundary equilibrium and transport solver with theory-based models and its validation against ASDEX Upgrade current ramp scenarios. Plasma Physics and Controlled Fusion, 2013, 55, 124028.	2.1	58
13	Overview of ASDEX Upgrade results. Nuclear Fusion, 2017, 57, 102015.	3.5	53
14	Gyrokinetic study of ASDEX Upgrade inter-ELM pedestal profile evolution. Nuclear Fusion, 2015, 55, 063028.	3.5	51
15	Flux- and gradient-driven global gyrokinetic simulation of tokamak turbulence. Physics of Plasmas, 2011, 18, .	1.9	50
16	Characterizing turbulent transport in ASDEX Upgrade L-mode plasmas via nonlinear gyrokinetic simulations. Physics of Plasmas, 2013, 20, 122312.	1.9	50
17	Ion temperature profile stiffness: non-linear gyrokinetic simulations and comparison with experiment. Nuclear Fusion, 2014, 54, 023008.	3.5	45
18	Gyrokinetic turbulence under near-separatrix or nonaxisymmetric conditions. Physics of Plasmas, 2009, 16, 055901.	1.9	43

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19	Structure of Plasma Heating in Gyrokinetic AlfvÃ©nic Turbulence. Physical Review Letters, 2016, 117, 245101.	7.8	43
20	Gyrokinetic simulations of magnetic reconnection. Physics of Plasmas, 2011, 18, .	1.9	39
21	Extreme Heat Fluxes in Gyrokinetic Simulations: A New Critical<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>. Physical Review Letters, 2013, 110, 155005.	7.8	39
22	Overview of physics studies on ASDEX Upgrade. Nuclear Fusion, 2019, 59, 112014.	3.5	38
23	Overview of ASDEX Upgrade results. Nuclear Fusion, 2013, 53, 104003.	3.5	36
24	Investigating profile stiffness and critical gradients in shaped TCV discharges using local gyrokinetic simulations of turbulent transport. Plasma Physics and Controlled Fusion, 2015, 57, 054010.	2.1	35
25	Properties of high-Î² microturbulence and the non-zonal transition. Physics of Plasmas, 2013, 20, .	1.9	32
26	How non-adiabatic passing electron layers of linear microinstabilities affect turbulent transport. Physics of Plasmas, 2015, 22, .	1.9	31
27	Gyrokinetic studies of core turbulence features in ASDEX Upgrade H-mode plasmas. Physics of Plasmas, 2015, 22, .	1.9	29
28	Overview of ASDEX Upgrade results. Nuclear Fusion, 2011, 51, 094012.	3.5	27
29	MAGNETIC RECONNECTION TURBULENCE IN STRONG GUIDE FIELDS: BASIC PROPERTIES AND APPLICATION TO CORONAL HEATING. Astrophysical Journal, Supplement Series, 2014, 213, 30.	7.7	22
30	Global and local gyrokinetic simulations of high-performance discharges in view of ITER. Nuclear Fusion, 2013, 53, 073003.	3.5	20
31	Comparative study of gyrokinetic, hybrid-kinetic and fully kinetic wave physics for space plasmas. New Journal of Physics, 2016, 18, 065011.	2.9	20
32	Core transport analysis of nitrogen seeded H-mode discharges in the ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2013, 55, 015010.	2.1	19
33	Full-f version of GENE for turbulence in open-field-line systems. Physics of Plasmas, 2018, 25, .	1.9	18
34	Block-structured grids for Eulerian gyrokinetic simulations. Computer Physics Communications, 2016, 198, 105-117.	7.5	17
35	Verification of Gyrokinetic codes: Theoretical background and applications. Physics of Plasmas, 2017, 24, .	1.9	17
36	GENE-3D: A global gyrokinetic turbulence code for stellarators. Journal of Computational Physics, 2020, 420, 109694.	3.8	17

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37	Multi-species collisions for delta-f gyrokinetic simulations: Implementation and verification with GENE. Computer Physics Communications, 2020, 255, 107360.	7.5	16
38	Identifying microturbulence regimes in a TCV discharge making use of physical constraints on particle and heat fluxes. Physics of Plasmas, 2018, 25, .	1.9	15
39	Investigating the radial structure of axisymmetric fluctuations in the TCV tokamak with local and global gyrokinetic GENE simulations. Plasma Physics and Controlled Fusion, 2018, 60, 034003.	2.1	14
40	Gyrokinetic and kinetic particle-in-cell simulations of guide-field reconnection. I. Macroscopic effects of the electron flows. Physics of Plasmas, 2015, 22, .	1.9	13
41	Peaked density profiles due to neon injection on FTU. Nuclear Fusion, 2015, 55, 073027.	3.5	13
42	Interaction between neoclassical effects and ion temperature gradient turbulence in gradient- and flux-driven gyrokinetic simulations. Physics of Plasmas, 2016, 23, 042509.	1.9	13
43	Gyrokinetic turbulence: between idealized estimates and a detailed analysis of nonlinear energy transfers. New Journal of Physics, 2017, 19, 045001.	2.9	13
44	Low-recycling conditions and improved core confinement in steady-state operation scenarios in JET (Joint European Torus). Plasma Physics and Controlled Fusion, 2013, 55, 045005.	2.1	12
45	Enhanced magnetic reconnection in the presence of pressure gradients. Physics of Plasmas, 2015, 22, .	1.9	12
46	Block-structured grids in full velocity space for Eulerian gyrokinetic simulations. Computer Physics Communications, 2017, 215, 49-62.	7.5	11
47	Gyrokinetic GENE simulations of DIII-D near-edge L-mode plasmas. Physics of Plasmas, 2019, 26, .	1.9	11
48	Gyrokinetic investigation of the ASDEX Upgrade I-mode pedestal. Physics of Plasmas, 2019, 26, 122504.	1.9	11
49	A Case for Electron-Astrophysics. Experimental Astronomy, 0, , 1.	3.7	11
50	Nonlocal effects in gyrokinetic turbulence simulations using GENE. Journal of Physics: Conference Series, 2010, 260, 012011.	0.4	10
51	Identifying the role of non-adiabatic passing electrons in ITG/TEM microturbulence by comparing fully kinetic and hybrid electron simulations. Journal of Physics: Conference Series, 2012, 401, 012006.	0.4	10
52	Linear multispecies gyrokinetic flux tube benchmarks in shaped tokamak plasmas. Physics of Plasmas, 2016, 23, 032104.	1.9	10
53	Comparisons between global and local gyrokinetic simulations of an ASDEX Upgrade H-mode plasma. Physics of Plasmas, 2016, 23, .	1.9	9
54	A basic plasma test for gyrokinetics: GDC turbulence in LAPD. Plasma Physics and Controlled Fusion, 2017, 59, 024006.	2.1	9

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55	Bringing global gyrokinetic turbulence simulations to the transport timescale using a multiscale approach. Nuclear Fusion, 2018, 58, 054004.	3.5	9
56	A linear dispersion relation for the hybrid kinetic-ion/fluid-electron model of plasma physics. New Journal of Physics, 2016, 18, 075001.	2.9	9
57	Fully nonlinear Îf gyrokinetics for scrape-off layer parallel transport. Physics of Plasmas, 2016, 23, .	1.9	7
58	Applicability of different geometry approaches to simulations of turbulence in highly sheared magnetic fields. Physics of Plasmas, 2010, 17, .	1.9	6
59	Collision-dependent power law scalings in two dimensional gyrokinetic turbulence. Physics of Plasmas, 2014, 21, .	1.9	6
60	On the Validation of Gyrokinetic L-Mode Simulations. Fusion Science and Technology, 2016, 69, 537-545.	1.1	6
61	A Look at Phase Space Intermittency in Magnetized Plasma Turbulence. Astrophysical Journal, 2019, 886, 65.	4.5	6
62	Sub-grid-scale effects in magnetised plasma turbulence. Journal of Plasma Physics, 2021, 87, .	2.1	6
63	A study of self organized criticality in ion temperature gradient mode driven gyrokinetic turbulence. Physics of Plasmas, 2014, 21, .	1.9	5
64	Characterization with microturbulence simulations of the zero particle flux condition in case of a TCV discharge showing toroidal rotation reversal. Journal of Physics: Conference Series, 2016, 775, 012007.	0.4	3
65	Growth rates of ITG modes in the presence of flow shear. Physics of Plasmas, 2019, 26, 012502.	1.9	3
66	Gyrokinetic analysis of an argon-seeded EDA H-mode in ASDEX Upgrade. Journal of Plasma Physics, 2022, 88, .	2.1	3
67	Global electromagnetic simulations of the outer core of an ASDEX Upgrade L-mode plasma. Physics of Plasmas, 2015, 22, .	1.9	2
68	Gyrokinetic Turbulence Investigations Involving Ion and Electron Scales. , 2010, , 491-501.		0