Gary Staebler

List of Publications by Year in descending order

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47	2,289	236925	243625
papers	citations	25	44
		h-index	g-index

47	47	47	1224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A gyro-Landau-fluid transport model. Physics of Plasmas, 1997, 4, 2482-2496.	1.9	493
2	A theory-based transport model with comprehensive physics. Physics of Plasmas, 2007, 14, 055909.	1.9	303
3	Gyro-Landau fluid equations for trapped and passing particles. Physics of Plasmas, 2005, 12, 102508.	1.9	203
4	The first transport code simulations using the trapped gyro-Landau-fluid model. Physics of Plasmas, 2008, 15, .	1.9	129
5	The role of zonal flows in the saturation of multi-scale gyrokinetic turbulence. Physics of Plasmas, 2016, 23, .	1.9	91
6	New Paradigm for Suppression of Gyrokinetic Turbulence by Velocity Shear. Physical Review Letters, 2013, 110, 055003.	7.8	76
7	Impurity-Induced Suppression of Core Turbulence and Transport in the DIII-D Tokamak. Physical Review Letters, 2000, 84, 1922-1925.	7.8	59
8	Integrated fusion simulation with self-consistent core-pedestal coupling. Physics of Plasmas, 2016, 23, .	1.9	56
9	Gyrokinetic simulation of momentum transport with residual stress from diamagnetic level velocity shears. Physics of Plasmas, 2011, 18, 042504.	1.9	52
10	Impurity confinement and transport in high confinement regimes without edge localized modes on	1.9	47
11	A correlation electron cyclotron emission diagnostic and the importance of multifield fluctuation measurements for testing nonlinear gyrokinetic turbulence simulations. Review of Scientific Instruments, 2008, 79, 103505.	1.3	44
12	Neural-network accelerated coupled core-pedestal simulations with self-consistent transport of impurities and compatible with ITER IMAS. Nuclear Fusion, 2021, 61, 026006.	3.5	42
13	Confinement improvement in the high poloidal beta regime on DIII-D and application to steady-state H-mode on EAST. Physics of Plasmas, 2017, 24, .	1.9	41
14	H-mode grade confinement in L-mode edge plasmas at negative triangularity on DIII-D. Physics of Plasmas, 2019, 26, .	1.9	38
15	Geometry dependence of the fluctuation intensity in gyrokinetic turbulence. Plasma Physics and Controlled Fusion, 2021, 63, 015013.	2.1	37
16	Changes in particle transport as a result of resonant magnetic perturbations in DIII-D. Physics of Plasmas, 2012, 19, .	1.9	35
17	DIII-D Research to Prepare for Steady State Advanced Tokamak Power Plants. Journal of Fusion Energy, 2019, 38, 72-111.	1.2	35
18	Predicting rotation for ITER via studies of intrinsic torque and momentum transport in DIII-D. Physics of Plasmas, 2017, 24, .	1.9	34

#	Article	IF	Citations
19	Explaining Cold-Pulse Dynamics in Tokamak Plasmas Using Local Turbulent Transport Models. Physical Review Letters, 2018, 120, 075001.	7.8	34
20	Progress toward steady-state tokamak operation exploiting the high bootstrap current fraction regime. Physics of Plasmas, 2016, 23, .	1.9	33
21	Joint DIII-D/EAST research on the development of a high poloidal beta scenario for the steady state missions of ITER and CFETR. Plasma Physics and Controlled Fusion, 2018, 60, 014043.	2.1	32
22	The effects of dilution on turbulence and transport in C-Mod ohmic plasmas and comparisons with gyrokinetic simulations. Physics of Plasmas, 2015, 22, 072507.	1.9	31
23	Transport barriers in bootstrap-driven tokamaks. Physics of Plasmas, 2018, 25, .	1.9	30
24	Verification of a quasi-linear model for gyrokinetic turbulent transport. Nuclear Fusion, 2021, 61, 116007.	3.5	29
25	Transport and turbulence studies in the linear ohmic confinement regime in Alcator C-Mod. Plasma Physics and Controlled Fusion, 2012, 54, 124029.	2.1	28
26	Progress and challenges in understanding core transport in tokamaks in support to ITER operations. Plasma Physics and Controlled Fusion, 2020, 62, 014021.	2.1	25
27	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
28	AlfvÃ©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
29	Validation of nonlinear gyrokinetic simulations of L- and I-mode plasmas on Alcator C-Mod. Physics of Plasmas, 2017, 24, .	1.9	21
30	Observation of Reduced Electron-Temperature Fluctuations in the Coreof H-Mode Plasmas. Physical Review Letters, 2008, 100, 035002.	7.8	20
31	Transport at high ${eta_p}$ and development of candidate steady state scenarios for ITER. Nuclear Fusion, 2020, 60, 046025.	3.5	19
32	The quiescent double barrier regime in DIII-D. Plasma Physics and Controlled Fusion, 2002, 44, A123-A135.	2.1	17
33	Predict-first experiments and modeling of perturbative cold pulses in the DIII-D tokamak. Physics of Plasmas, 2019, 26, .	1.9	14
34	Advances in physics understanding of high poloidal beta regime toward steady-state operation of CFETR. Physics of Plasmas, 2021, 28, .	1.9	14
35	Quasilinear model for energetic particle diffusion in radial and velocity space. Physics of Plasmas, 2013, 20, .	1.9	11
36	Confinement properties of L-mode plasmas in ASDEX Upgrade and full-radius predictions of the TGLF transport model. Nuclear Fusion, 2022, 62, 066015.	3.5	11

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37	Spectral treatment of gyrokinetic profile curvature. Plasma Physics and Controlled Fusion, 2020, 62, 042001.	2.1	10
38	Advances in prediction of tokamak experiments with theory-based models. Nuclear Fusion, 0, , .	3.5	9
39	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	1.9	9
40	Role of microtearing mode in DIII-D and future high-Î²p core plasmas. Physics of Plasmas, 2021, 28, .	1.9	8
41	Benchmark of quasi-linear models against gyrokinetic single scale simulations in deuterium and tritium plasmas for a JET high beta hybrid discharge. Nuclear Fusion, 2021, 61, 066032.	3.5	8
42	A new quasilinear saturation rule for tokamak turbulence with application to the isotope scaling of transport. Nuclear Fusion, 2022, 62, 096005.	3.5	7
43	The effects of main-ion dilution on turbulence in low q95 C-Mod ohmic plasmas, and comparisons with nonlinear GYRO. Physics of Plasmas, 2016, 23, 082509.	1.9	4
44	Experimental investigation and gyrokinetic simulations of multi-scale electron heat transport in JET, AUG, TCV. Nuclear Fusion, 2021, 61, 116071.	3.5	4
45	Explaining the lack of power degradation of energy confinement in wide pedestal quiescent H-modes via transport modeling. Nuclear Fusion, 2022, 62, 056024.	3.5	1
46	Physics of increased edge electron temperature and density turbulence during ELM-free QH-mode operation on DIII-D. Physics of Plasmas, 2018, 25, 055904.	1.9	0
47	Equilibrium reconstruction of DIII-D plasmas using predictive modeling of the pressure profile. Physics of Plasmas, 2022, 29, 062502.	1.9	0