

Emily Belli

List of Publications by Year in descending order

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33
papers

1,450
citations

394421

19
h-index

395702

33
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33
all docs

33
docs citations

33
times ranked

922
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic calculation of neoclassical transport including self-consistent electron and impurity dynamics. Plasma Physics and Controlled Fusion, 2008, 50, 095010.	2.1	277
2	Tokamak profile prediction using direct gyrokinetic and neoclassical simulation. Physics of Plasmas, 2009, 16, .	1.9	175
3	Full linearized Fokker-Planck collisions in neoclassical transport simulations. Plasma Physics and Controlled Fusion, 2012, 54, 015015.	2.1	154
4	Self-consistent core-pedestal transport simulations with neural network accelerated models. Nuclear Fusion, 2017, 57, 086034.	3.5	78
5	Fully electromagnetic gyrokinetic eigenmode analysis of high-beta shaped plasmas. Physics of Plasmas, 2010, 17, .	1.9	72
6	An Eulerian method for the solution of the multi-species drift-kinetic equation. Plasma Physics and Controlled Fusion, 2009, 51, 075018.	2.1	68
7	Integrated fusion simulation with self-consistent core-pedestal coupling. Physics of Plasmas, 2016, 23, .	1.9	56
8	Intrinsic Rotation Driven by Non-Maxwellian Equilibria in Tokamak Plasmas. Physical Review Letters, 2013, 111, 055005.	7.8	50
9	The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. Physics of Plasmas, 2015, 22, 055902.	1.9	49
10	Impurity confinement and transport in high confinement regimes without edge localized modes on	1.9	47
11	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
12	Main ion and impurity edge profile evolution across the L- to H-mode transition on DIII-D. Plasma Physics and Controlled Fusion, 2018, 60, 105001.	2.1	38
13	Reversal of Simple Hydrogenic Isotope Scaling Laws in Tokamak Edge Turbulence. Physical Review Letters, 2020, 125, 015001.	7.8	32
14	Poloidally and radially resolved parallel D+ velocity measurements in the DIII-D boundary and comparison to neoclassical computations. Physics of Plasmas, 2011, 18, 032510.	1.9	27
15	Experimental evidence of edge intrinsic momentum source driven by kinetic ion loss and edge radial electric fields in tokamaks. Physics of Plasmas, 2016, 23, 092506.	1.9	27
16	A new set of analytical formulae for the computation of the bootstrap current and the neoclassical conductivity in tokamaks. Physics of Plasmas, 2021, 28, .	1.9	27
17	Pfirsch-Schlüter neoclassical heavy impurity transport in a rotating plasma. Plasma Physics and Controlled Fusion, 2014, 56, 124002.	2.1	26
18	Role of Microtearing Turbulence in DIII-D High Bootstrap Current Fraction Plasmas. Physical Review Letters, 2019, 123, 225002.	7.8	26

#	ARTICLE	IF	CITATIONS
19	Implications of advanced collision operators for gyrokinetic simulation. Plasma Physics and Controlled Fusion, 2017, 59, 045005.	2.1	25
20	Impact of centrifugal drifts on ion turbulent transport. Physics of Plasmas, 2018, 25, 032301.	1.9	20
21	Reversal of turbulent gyroBohm isotope scaling due to nonadiabatic electron drive. Physics of Plasmas, 2019, 26, .	1.9	20
22	Limitations of bootstrap current models. Plasma Physics and Controlled Fusion, 2014, 56, 045006.	2.1	17
23	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. Physics of Plasmas, 2018, 25, .	1.9	14
24	Verification of continuum drift kinetic equation solvers in NIMROD. Physics of Plasmas, 2015, 22, 032511.	1.9	13
25	Predict-first experimental analysis using automated and integrated magnetohydrodynamic modeling. Physics of Plasmas, 2018, 25, .	1.9	13
26	Turbulent momentum transport due to neoclassical flows. Plasma Physics and Controlled Fusion, 2015, 57, 125006.	2.1	10
27	Spectral treatment of gyrokinetic profile curvature. Plasma Physics and Controlled Fusion, 2020, 62, 042001.	2.1	10
28	Multiscale-optimized plasma turbulence simulation on petascale architectures. Computers and Fluids, 2019, 188, 125-135.	2.5	9
29	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	1.9	9
30	Role of microtearing mode in DIII-D and future high- \hat{I}_p core plasmas. Physics of Plasmas, 2021, 28, .	1.9	8
31	Asymmetry between deuterium and tritium turbulent particle flows. Physics of Plasmas, 2021, 28, .	1.9	4
32	Neoclassical transport analysis of high rotational trace limit tungsten impurities in KSTAR tokamak. Physics of Plasmas, 2022, 29, 022504.	1.9	4
33	Pedestal stability analysis on MAST in preparation for MAST-U. Nuclear Fusion, 2021, 61, 046041.	3.5	3