

Xavier Garbet

List of Publications by Year in descending order

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192
papers

7,104
citations

46918

47
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194
all docs

194
docs citations

194
times ranked

2137
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of internal transport barrier physics for steady-state operation of tokamaks. Nuclear Fusion, 2004, 44, R1-R49.	1.6	314
2	Gyrokinetic simulations of turbulent transport. Nuclear Fusion, 2010, 50, 043002.	1.6	295
3	The CRONOS suite of codes for integrated tokamak modelling. Nuclear Fusion, 2010, 50, 043001.	1.6	235
4	A new gyrokinetic quasilinear transport model applied to particle transport in tokamak plasmas. Physics of Plasmas, 2007, 14, .	0.7	177
5	Physics of transport in tokamaks. Plasma Physics and Controlled Fusion, 2004, 46, B557-B574.	0.9	157
6	On the validity of the local diffusive paradigm in turbulent plasma transport. Physical Review E, 2010, 82, 025401.	0.8	155
7	Turbulent Particle Transport in Magnetized Plasmas. Physical Review Letters, 2003, 91, 035001.	2.9	154
8	Nondiffusive Transport in Tokamaks: Three-Dimensional Structure of Bursts and the Role of Zonal Flows. Physical Review Letters, 2000, 85, 4892-4895.	2.9	150
9	Profile stiffness and global confinement. Plasma Physics and Controlled Fusion, 2004, 46, 1351-1373.	0.9	149
10	A drift-kinetic Semi-Lagrangian 4D code for ion turbulence simulation. Journal of Computational Physics, 2006, 217, 395-423.	1.9	145
11	Internal transport barrier triggering by rational magnetic flux surfaces in tokamaks. Nuclear Fusion, 2003, 43, 1167-1174.	1.6	133
12	Theory and simulation of rotational shear stabilization of turbulence. Physics of Plasmas, 1998, 5, 1784-1792.	0.7	127
13	Heat flux driven ion turbulence. Physics of Plasmas, 1998, 5, 2836-2845.	0.7	119
14	Radial propagation of turbulence in tokamaks. Nuclear Fusion, 1994, 34, 963-974.	1.6	114
15	Screening of resonant magnetic perturbations by flows in tokamaks. Nuclear Fusion, 2012, 52, 054003.	1.6	106
16	Action at distance and Bohm scaling of turbulence in tokamaks. Physics of Plasmas, 1996, 3, 1898-1907.	0.7	99
17	Finding the Elusive $E \times B$ Staircase in Magnetized Plasmas. Physical Review Letters, 2015, 114, 085004.	2.9	98
18	Curvature effects on the dynamics of tearing modes in tokamaks. Physics of Plasmas, 2001, 8, 4267-4270.	0.7	97

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19	Turbulence simulations of transport barriers with toroidal velocity. <i>Physics of Plasmas</i> , 2002, 9, 3893-3905.	0.7	93
20	A 5D gyrokinetic full- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si366.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{f} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ global semi-Lagrangian code for flux-driven ion turbulence simulations. <i>Computer Physics Communications</i> , 2016, 207, 35-68.	3.0	93
21	Residual parallel Reynolds stress due to turbulence intensity gradient in tokamak plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	91
22	Edge localized mode physics and operational aspects in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, A93-A113.	0.9	88
23	A model for the turbulence in the scrape-off layer of tokamaks. <i>Nuclear Fusion</i> , 1991, 31, 967-972.	1.6	87
24	Global full-fgyrokinetic simulations of plasma turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, B173-B182.	0.9	82
25	Large scale dynamics in flux driven gyrokinetic turbulence. <i>Nuclear Fusion</i> , 2010, 50, 054004.	1.6	81
26	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014036.	0.9	81
27	Fluctuation spectra and velocity profile from Doppler backscattering on Tore Supra. <i>Nuclear Fusion</i> , 2006, 46, S771-S779.	1.6	80
28	Turbulence in fusion plasmas: key issues and impact on transport modelling. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, A251-A266.	0.9	79
29	Impact of Energetic-Particle-Driven Geodesic Acoustic Modes on Turbulence. <i>Physical Review Letters</i> , 2013, 110, 125002.	2.9	78
30	Stability analysis of improved confinement discharges: internal transport barriers in Tore Supra and radiative improved mode in TEXTOR. <i>Nuclear Fusion</i> , 2002, 42, 892-902.	1.6	76
31	Theoretical analysis of the influence of external biasing on long range turbulent transport in the scrape-off layer. <i>Nuclear Fusion</i> , 2003, 43, 1013-1022.	1.6	76
32	Modelling of ECH modulation experiments in ASDEX Upgrade with an empirical critical temperature gradient length transport model. <i>Plasma Physics and Controlled Fusion</i> , 2001, 43, 1503-1524.	0.9	72
33	Validating a quasi-linear transport model versus nonlinear simulations. <i>Nuclear Fusion</i> , 2009, 49, 085012.	1.6	72
34	Metis: a fast integrated tokamak modelling tool for scenario design. <i>Nuclear Fusion</i> , 2018, 58, 105001.	1.6	71
35	Front propagation and critical gradient transport models. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	68
36	Fluid simulations of turbulent impurity transport. <i>Physics of Plasmas</i> , 2007, 14, 042301.	0.7	60

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37	Mechanism of Edge Localized Mode Mitigation by Resonant Magnetic Perturbations. <i>Physical Review Letters</i> , 2014, 113, 115001.	2.9	60
38	Fully kinetic description of the linear excitation and nonlinear saturation of fast-ion-driven geodesic acoustic mode instability. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	58
39	The E \tilde{A} – B staircase of magnetised plasmas. <i>Nuclear Fusion</i> , 2017, 57, 066026.	1.6	57
40	Tractable flux-driven temperature, density, and rotation profile evolution with the quasilinear gyrokinetic transport model QuaLiKiz. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 124005.	0.9	57
41	Predictions on heat transport and plasma rotation from global gyrokinetic simulations. <i>Nuclear Fusion</i> , 2011, 51, 103023.	1.6	56
42	Flux driven turbulence in tokamaks. <i>Nuclear Fusion</i> , 1999, 39, 2063-2068.	1.6	55
43	Interplay between Gyrokinetic Turbulence, Flows, and Collisions: Perspectives on Transport and Poloidal Rotation. <i>Physical Review Letters</i> , 2009, 103, 065002.	2.9	53
44	Trapped-ion driven turbulence in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2000, 42, 949-971.	0.9	52
45	Particle and impurity transport in the Axial Symmetric Divertor Experiment Upgrade and the Joint European Torus, experimental observations and theoretical understanding. <i>Physics of Plasmas</i> , 2007, 14, 055905.	0.7	52
46	Quasi-coherent modes and electron-driven turbulence. <i>Nuclear Fusion</i> , 2014, 54, 123017.	1.6	50
47	Transport due to front propagation in tokamaks. <i>Physics of Plasmas</i> , 2000, 7, 1085-1088.	0.7	47
48	Recent results on turbulence and MHD activity achieved by reflectometry. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, B421-B432.	0.9	47
49	Conservation equations and calculation of mean flows in gyrokinetics. <i>Physics of Plasmas</i> , 2011, 18, 082503.	0.7	47
50	TOKAM-3D: A 3D fluid code for transport and turbulence in the edge plasma of Tokamaks. <i>Journal of Computational Physics</i> , 2010, 229, 361-378.	1.9	45
51	Kinetic features of interchange turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 1817-1839.	0.9	44
52	Parametric dependences of impurity transport in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, B63-B74.	0.9	44
53	Experimental impurity transport and theoretical interpretation in a Tore Supra lower-hybrid heated plasma. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 055010.	0.9	42
54	Impact of collisionality on fluctuation characteristics of micro-turbulence. <i>Physics of Plasmas</i> , 2011, 18, 012306.	0.7	42

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55	Bursty transport in tokamak turbulence: Role of zonal flows and internal transport barriers. Nuclear Fusion, 2001, 41, 995-1001.	1.6	41
56	Transport Reduction by Rotation Shear in Tokamak-Edge Turbulence. Physical Review Letters, 2003, 90, 015002.	2.9	41
57	Fully nonlinear features of the energetic beam-driven instability. Physics of Plasmas, 2009, 16, .	0.7	41
58	Wave-Number Spectrum of Drift-Wave Turbulence. Physical Review Letters, 2009, 102, 255002.	2.9	41
59	Generation and Amplification of Magnetic Islands by Drift Interchange Turbulence. Physical Review Letters, 2011, 107, 095003.	2.9	41
60	Experimental Electron Temperature Gradient Dependence of Heavy Impurity Transport in Fusion Devices. Physical Review Letters, 2010, 105, 035002.	2.9	38
61	L to H mode transition: on the role of Zeff. Nuclear Fusion, 2014, 54, 022001.	1.6	38
62	Nonlinear three-dimensional MHD simulations of tearing modes in tokamak plasmas. Plasma Physics and Controlled Fusion, 2001, 43, A339-A348.	0.9	35
63	The role of plasma elongation on the linear damping of zonal flows. Physics of Plasmas, 2008, 15, .	0.7	35
64	Neoclassical physics in full distribution function gyrokinetics. Physics of Plasmas, 2011, 18, .	0.7	35
65	Multiple polarization of geodesic curvature induced modes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6750-6756.	0.9	34
66	Spectroscopic determination of kinetic parameters for frequency sweeping Alfvén eigenmodes. Physics of Plasmas, 2010, 17, .	0.7	33
67	New glance at resistive ballooning modes at the edge of tokamak plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 115003.	0.9	33
68	Discriminating the trapped electron modes contribution in density fluctuation spectra. Nuclear Fusion, 2015, 55, 093021.	1.6	33
69	Identification of trapped electron modes in frequency fluctuation spectra. Plasma Physics and Controlled Fusion, 2016, 58, 014037.	0.9	33
70	Radial electric field measurement in a tokamak with magnetic field ripple. Nuclear Fusion, 2008, 48, 092001.	1.6	32
71	Nonlinear Dynamics of Magnetic Islands Imbedded in Small-Scale Turbulence. Physical Review Letters, 2009, 103, 145001.	2.9	32
72	Analytic dispersion relation of energetic particle driven geodesic acoustic modes and simulations with NEMORB. Nuclear Fusion, 2014, 54, 103006.	1.6	31

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73	Reversal of Impurity Pinch Velocity in Tokamaks Plasma with a Reversed Magnetic Shear Configuration. Physical Review Letters, 2010, 104, 015003.	2.9	30
74	Non-linear self consistency of microtearing modes. Plasma Physics and Controlled Fusion, 1988, 30, 343-363.	0.9	29
75	Anomalous transport of light and heavy impurities in Tore Supra ohmic, weakly sawtoothed plasmas. Nuclear Fusion, 2009, 49, 055007.	1.6	29
76	Effect of the curvature and the \hat{I}^2 parameter on the nonlinear dynamics of a drift tearing magnetic island. Nuclear Fusion, 2009, 49, 055016.	1.6	28
77	Relation between energetic and standard geodesic acoustic modes. Physics of Plasmas, 2014, 21, .	0.7	28
78	Neoclassical equilibrium in gyrokinetic simulations. Physics of Plasmas, 2009, 16, .	0.7	26
79	Impurity behavior during sawtooth activity in tokamak plasmas. Physics of Plasmas, 2014, 21, 012507.	0.7	26
80	Microtearing turbulence and heat transport. Plasma Physics and Controlled Fusion, 1990, 32, 131-140.	0.9	25
81	Turbulence simulations of transport barrier relaxations in tokamak edge plasmas. Plasma Physics and Controlled Fusion, 2007, 49, 507-523.	0.9	25
82	Intermittency in flux driven kinetic simulations of trapped ion turbulence. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 53-58.	1.7	24
83	The quasilinear behavior of convective turbulence with sheared flows. Physics of Plasmas, 2003, 10, 1382-1388.	0.7	23
84	Non-linear magnetohydrodynamic simulations of density evolution in Tore Supra sawtoothed plasmas. Physics of Plasmas, 2012, 19, .	0.7	23
85	Comprehensive comparisons of geodesic acoustic mode characteristics and dynamics between Tore Supra experiments and gyrokinetic simulations. Physics of Plasmas, 2015, 22, 062508.	0.7	23
86	Particle transport in low core turbulence Tore-Supra plasmas. Nuclear Fusion, 2010, 50, 095009.	1.6	22
87	Edge localized mode rotation and the nonlinear dynamics of filaments. Physics of Plasmas, 2016, 23, 042513.	0.7	22
88	Cross-code gyrokinetic verification and benchmark on the linear collisionless dynamics of the geodesic acoustic mode. Physics of Plasmas, 2017, 24, .	0.7	22
89	Evidence from Numerical Simulations of Transport-Barrier Relaxations in Tokamak Edge Plasmas in the Presence of Electromagnetic Fluctuations. Physical Review Letters, 2008, 101, 195001.	2.9	21
90	A gyro-kinetic model for trapped electron and ion modes. European Physical Journal D, 2014, 68, 1.	0.6	21

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91	A multi-species collisional operator for full-F gyrokinetics. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	21
92	Streamer-induced transport in the presence of trapped ion modes in tokamak plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	20
93	Self-consistent gyrokinetic modeling of neoclassical and turbulent impurity transport. <i>Nuclear Fusion</i> , 2018, 58, 036013.	1.6	20
94	Chaotic motion of charged particles in toroidal magnetic configurations. <i>Chaos</i> , 2014, 24, 033101.	1.0	19
95	A signature for turbulence driven magnetic islands. <i>Physics of Plasmas</i> , 2014, 21, 092303.	0.7	19
96	A multi-species collisional operator for full-F global gyrokinetics codes: Numerical aspects and verification with the GYSELA code. <i>Computer Physics Communications</i> , 2019, 234, 1-13.	3.0	19
97	GYSELA, a full-f global gyrokinetic Semi-Lagrangian code for ITG turbulence simulations. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	16
98	Entropy production and collisionless fluid closure. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 115003.	0.9	16
99	Comparison between measured and predicted turbulence frequency spectra in ITG and TEM regimes. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 064010.	0.9	16
100	Poloidal asymmetries of flows in the Tore Supra tokamak. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	16
101	Non-linear MHD modelling of edge localized modes dynamics in KSTAR. <i>Nuclear Fusion</i> , 2017, 57, 116059.	1.6	16
102	On the influence of initial state on gyrokinetic simulations. <i>Physics of Plasmas</i> , 2008, 15, 042315.	0.7	15
103	On the parallel momentum balance in low pressure plasmas with an inhomogeneous magnetic field. <i>Nuclear Fusion</i> , 2009, 49, 125001.	1.6	15
104	Higher order and asymmetry effects on saturation of magnetic islands. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	15
105	Global gyrokinetic simulations of trapped-electron mode and trapped-ion mode microturbulence. <i>Physics of Plasmas</i> , 2015, 22, 082302.	0.7	15
106	Shear flow instabilities induced by trapped ion modes in collisionless temperature gradient turbulence. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	15
107	Nonlinear viscoresistive dynamics of the m=1 tearing instability. <i>Physics of Plasmas</i> , 2008, 15, 022502.	0.7	14
108	Interplay between fast ions and turbulence in magnetic fusion plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124012.	0.9	14

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109	Staircase temperature profiles and plasma transport self-organisation in a minimum kinetic model of turbulence based on the trapped ion mode instability. <i>Journal of Physics: Conference Series</i> , 2014, 561, 012003.	0.3	14
110	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	14
111	Variational formalism for kinetic-MHD instabilities in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 1992, 34, 1089-1112.	0.9	13
112	Global current profile effects on the evolution and saturation of magnetic islands. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	13
113	Extended magneto-hydro-dynamic model for neoclassical tearing mode computations. <i>Nuclear Fusion</i> , 2016, 56, 086004.	1.6	13
114	Natural poloidal asymmetry and neoclassical transport of impurities in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 025001.	0.9	13
115	Wave trapping and $\langle E \rangle - \langle B \rangle$ staircases. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	13
116	Generation of a magnetic island by edge turbulence in tokamak plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	12
117	Nonlinear dynamics of turbulence driven magnetic islands. I. Theoretical aspects. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	12
118	Nonlinear dynamics of turbulence driven magnetic islands. II. Numerical simulations. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	12
119	Evidence for Global Edge-Core Interplay in Fusion Plasmas. <i>Plasma and Fusion Research</i> , 2017, 12, 1203012-1203012.	0.3	12
120	Turbulent generation of poloidal asymmetries of the electric potential in a tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014003.	0.9	12
121	Dynamics of magnetic islands in large $\hat{\Gamma}^2$ regimes. <i>Physics of Plasmas</i> , 2014, 21, 020705.	0.7	11
122	Impact of electric potential and magnetic drift on microtearing modes stability. <i>Physics of Plasmas</i> , 2019, 26, 092506.	0.7	11
123	Turbulence simulations of barrier relaxations and transport in the presence of magnetic islands at the tokamak edge. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 054003.	0.9	10
124	Amplification of a turbulence driven seed magnetic island by bootstrap current. <i>Nuclear Fusion</i> , 2017, 57, 072010.	1.6	10
125	Impact of poloidal convective cells on momentum flux in tokamaks. <i>New Journal of Physics</i> , 2017, 19, 015011.	1.2	10
126	Immersed boundary conditions in global, flux-driven, gyrokinetic simulations. <i>Journal of Physics: Conference Series</i> , 2018, 1125, 012006.	0.3	10

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127	Particle transport due to energetic-particle-driven geodesic acoustic modes. Nuclear Fusion, 2018, 58, 106030.	1.6	10
128	Nonlinear dynamics of the fishbone-induced alpha transport on ITER. Nuclear Fusion, 2020, 60, 126019.	1.6	10
129	Formation of the radial electric field profile in the WEST tokamak. Nuclear Fusion, 2022, 62, 026002.	1.6	10
130	Quasilinear gyrokinetic theory: a derivation of QuaLiKiz. Journal of Plasma Physics, 2021, 87, .	0.7	9
131	Phase space structures in gyrokinetic simulations of fusion plasma turbulence. European Physical Journal D, 2014, 68, 1.	0.6	8
132	Full particle orbit effects in regular and stochastic magnetic fields. Physics of Plasmas, 2016, 23, .	0.7	8
133	Non-linear dynamics of compound sawteeth in tokamaks. Physics of Plasmas, 2016, 23, 052509.	0.7	8
134	Projection on Proper elements for code control: Verification, numerical convergence, and reduced models. Application to plasma turbulence simulations. Physics of Plasmas, 2016, 23, 020702.	0.7	8
135	Simulation of core turbulence measurement in Tore Supra ohmic regimes. Physics of Plasmas, 2016, 23, .	0.7	8
136	Diffusive impurity transport driven by trapped particle turbulence in tokamak plasmas. Physics of Plasmas, 2019, 26, 082306.	0.7	8
137	Neoclassical impurity flux in presence of turbulent generated poloidal asymmetries and pressure anisotropy. Plasma Physics and Controlled Fusion, 2019, 61, 044006.	0.9	8
138	Gyrokinetic modelling of light to heavy impurity transport in tokamaks. Nuclear Fusion, 2021, 61, 046037.	1.6	8
139	Key impact of phase dynamics and diamagnetic drive on Reynolds stress in magnetic fusion plasmas. Plasma Physics and Controlled Fusion, 2021, 63, 064007.	0.9	8
140	Critical gradient response of the Weiland model. Plasma Physics and Controlled Fusion, 2007, 49, 1221-1243.	0.9	7
141	Thermodynamical and microscopic properties of turbulent transport in the edge plasma. Journal of Physics: Conference Series, 2012, 401, 012007.	0.3	7
142	A simple model for electron dissipation in trapped ion turbulence. Physics of Plasmas, 2017, 24, .	0.7	7
143	Benchmarking of flux-driven full-F gyrokinetic simulations. Physics of Plasmas, 2017, 24, .	0.7	7
144	Stabilization of a magnetic island by localized heating in a tokamak with stiff temperature profile. Physics of Plasmas, 2018, 25, 022514.	0.7	7

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145	Validity limits of the passive treatment of impurities in gyrokinetic tokamak simulations. Nuclear Fusion, 2020, 60, 036016.	1.6	7
146	An analytic model for the collisional transport and poloidal asymmetry distribution of impurities in tokamak plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 105001.	0.9	7
147	Stability of a slab collisional microtearing mode. Contributions To Plasma Physics, 2018, 58, 529-533.	0.5	6
148	Comprehensive linear model for the $n = m = 1$ fishbone kinetic-MHD instability. Journal of Physics: Conference Series, 2018, 1125, 012003.	0.3	6
149	Non-linear MHD simulations of sawteeth and their control by current and power depositions. Nuclear Fusion, 2018, 58, 096008.	1.6	6
150	Linear stability of the ITER 15 MA scenario against the alpha fishbone. Nuclear Fusion, 2020, 60, 086002.	1.6	6
151	Compressing the time series of five dimensional distribution function data from gyrokinetic simulation using principal component analysis. Physics of Plasmas, 2021, 28, .	0.7	6
152	Self-Consistent Dynamics of Impurities in Magnetically Confined Plasmas: Turbulence Intermittency and Nondiffusive Transport. Physical Review Letters, 2012, 109, 185005.	2.9	5
153	Saturation of magnetic islands in equilibria with a finite current gradient. Part II: numerical simulations. Plasma Physics and Controlled Fusion, 2014, 56, 125005.	0.9	5
154	Penetration of resonant magnetic perturbations in turbulent edge plasmas. Nuclear Fusion, 2014, 54, 064018.	1.6	5
155	Dynamics of heavy impurities in non-linear MHD simulations of sawtooth tokamak plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 125009.	0.9	5
156	Determination of q during sawtooth from inverse evolution of BAEs in Tore Supra. Nuclear Fusion, 2018, 58, 016010.	1.6	5
157	Contribution of kinetic electrons to GAM damping. Journal of Physics: Conference Series, 2018, 1125, 012010.	0.3	5
158	Generation and dynamics of SOL corrugated profiles. Journal of Physics: Conference Series, 2018, 1125, 012011.	0.3	5
159	Quasilinear nature of L-mode edge turbulent transport in fluid nonlinear simulations. Nuclear Fusion, 2019, 59, 126019.	1.6	5
160	Non-linear simulations of neoclassical tearing mode control by externally driven RF current and heating, with application to ITER. Nuclear Fusion, 2019, 59, 106012.	1.6	5
161	Synergy of turbulent and neoclassical transport through poloidal convective cells. Plasma Physics and Controlled Fusion, 2019, 61, 065015.	0.9	5
162	Linear collisionless dynamics of the GAM with kinetic electrons: Comparison simulations/theory. Physics of Plasmas, 2019, 26, 122304.	0.7	5

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163	Impact of scaling laws on tokamak reactor dimensioning. Nuclear Fusion, 2020, 60, 016010.	1.6	5
164	Zonal instability and wave trapping. Journal of Physics: Conference Series, 2021, 1785, 012002.	0.3	5
165	Saturation of magnetic islands in equilibria with a finite current gradient. Part I: asymptotic theory. Plasma Physics and Controlled Fusion, 2014, 56, 125004.	0.9	4
166	Radial density and heat fluxes description in the velocity space: Nonlinear simulations and quasi-linear calculations. Physics of Plasmas, 2018, 25, 122304.	0.7	4
167	Interchange destabilization of collisionless tearing modes by temperature gradient. Physics of Plasmas, 2018, 25, .	0.7	4
168	Impurity density gradient influence on trapped particle modes. Physics of Plasmas, 2018, 25, 062307.	0.7	4
169	Gyro-kinetic theory and global simulations of the collisionless tearing instability: The impact of trapped particles through the magnetic field curvature. Physics of Plasmas, 2019, 26, .	0.7	4
170	Dynamics of magnetic islands driven by ballooning turbulence. Physics of Plasmas, 2021, 28, .	0.7	4
171	Investigation of tokamak turbulent avalanches using wave-kinetic formulation in toroidal geometry. Journal of Plasma Physics, 2021, 87, .	0.7	4
172	Impurity pinch generated by trapped particle driven turbulence. Plasma Physics and Controlled Fusion, 2020, 62, 095018.	0.9	4
173	Synergy of Turbulent Momentum Drive and Magnetic Braking. Physical Review Letters, 2022, 128, .	2.9	4
174	Study on the creation and destruction of transport barriers via the effective safety factors for energetic particles. Physics of Plasmas, 2016, 23, .	0.7	3
175	A kinetic model for the stability of a collisional current sheet. Journal of Physics: Conference Series, 2018, 1125, 012012.	0.3	3
176	Numerical experiments of island stabilization by RF heating with stiff temperature profile. Plasma Physics and Controlled Fusion, 2018, 60, 095003.	0.9	3
177	Experimental trends of reflectometry frequency spectra emerging from a systematic analysis of the Tore Supra database. Physics of Plasmas, 2019, 26, .	0.7	3
178	Global ITG eigenmodes: From ballooning angle and radial shift to Reynolds stress and nonlinear saturation. Physics of Plasmas, 2020, 27, .	0.7	3
179	A reduced MHD model for ITG-NTM interplay. Physics of Plasmas, 2020, 27, 022119.	0.7	3
180	Turbulence spectra and transport barriers in gyrokinetic simulations. , 2008, , .		2

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181	Self organisation of plasma turbulence: impact on radial correlation lengths. Journal of Physics: Conference Series, 2014, 561, 012008.	0.3	2
182	Verification of turbulent simulations using PoPe: quantifying model precision and numerical error with data mining of simulation output. Journal of Physics: Conference Series, 2018, 1125, 012005.	0.3	2
183	Stability analysis of secondary modes, driven by the phase space island. Nuclear Fusion, 2019, 59, 086010.	1.6	2
184	Analytic guiding center formulas for bounce-transit motion in a concentric circular, finite inverse aspect ratio tokamak geometry. Physics of Plasmas, 2020, 27, 052504.	0.7	2
185	Model order reduction approach to the one-dimensional collisionless closure problem. Physics of Plasmas, 2021, 28, .	0.7	2
186	Nonlinear dynamics of NTM seeding by turbulence. Plasma Physics and Controlled Fusion, 2021, 63, 084005.	0.9	2
187	Linear study of the precessional fishbone instability. Physics of Plasmas, 2016, 23, 102113.	0.7	1
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