

Xavier Garbet

List of Publications by Year in descending order

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192
papers

7,104
citations

46918

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all docs

194
docs citations

194
times ranked

2137
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of the radial electric field profile in the WEST tokamak. Nuclear Fusion, 2022, 62, 026002.	1.6	10
2	Interface transport barriers in magnetized plasmas. Plasma Physics and Controlled Fusion, 2022, 64, 055007.	0.9	1
3	Synergy of Turbulent Momentum Drive and Magnetic Braking. Physical Review Letters, 2022, 128, .	2.9	4
4	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
5	Dynamics of magnetic islands driven by ballooning turbulence. Physics of Plasmas, 2021, 28, .	0.7	4
6	Model order reduction approach to the one-dimensional collisionless closure problem. Physics of Plasmas, 2021, 28, .	0.7	2
7	Zonal instability and wave trapping. Journal of Physics: Conference Series, 2021, 1785, 012002.	0.3	5
8	Gyrokinetic modelling of light to heavy impurity transport in tokamaks. Nuclear Fusion, 2021, 61, 046037.	1.6	8
9	Wave trapping and $\langle \mathbf{E} \times \mathbf{\hat{A}} - \langle \mathbf{B} \rangle$ staircases. Physics of Plasmas, 2021, 28, .	0.7	13
10	Investigation of tokamak turbulent avalanches using wave-kinetic formulation in toroidal geometry. Journal of Plasma Physics, 2021, 87, .	0.7	4
11	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
12	Nonlinear dynamics of NTM seeding by turbulence. Plasma Physics and Controlled Fusion, 2021, 63, 084005.	0.9	2
13	Quasilinear gyrokinetic theory: a derivation of QuaLiKiz. Journal of Plasma Physics, 2021, 87, .	0.7	9
14	Impact of scaling laws on tokamak reactor dimensioning. Nuclear Fusion, 2020, 60, 016010.	1.6	5
15	Natural poloidal asymmetry and neoclassical transport of impurities in tokamak plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 025001.	0.9	13
16	Global ITG eigenmodes: From ballooning angle and radial shift to Reynolds stress and nonlinear saturation. Physics of Plasmas, 2020, 27, .	0.7	3
17	Linear stability of the ITER 15 MA scenario against the alpha fishbone. Nuclear Fusion, 2020, 60, 086002.	1.6	6
18	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

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19	A reduced MHD model for ITG-NTM interplay. <i>Physics of Plasmas</i> , 2020, 27, 022119.	0.7	3
20	Validity limits of the passive treatment of impurities in gyrokinetic tokamak simulations. <i>Nuclear Fusion</i> , 2020, 60, 036016.	1.6	7
21	Impurity pinch generated by trapped particle driven turbulence. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 095018.	0.9	4
22	An analytic model for the collisional transport and poloidal asymmetry distribution of impurities in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 105001.	0.9	7
23	Nonlinear dynamics of the fishbone-induced alpha transport on ITER. <i>Nuclear Fusion</i> , 2020, 60, 126019.	1.6	10
24	Quasilinear nature of L-mode edge turbulent transport in fluid nonlinear simulations. <i>Nuclear Fusion</i> , 2019, 59, 126019.	1.6	5
25	Diffusive impurity transport driven by trapped particle turbulence in tokamak plasmas. <i>Physics of Plasmas</i> , 2019, 26, 082306.	0.7	8
26	Non-linear simulations of neoclassical tearing mode control by externally driven RF current and heating, with application to ITER. <i>Nuclear Fusion</i> , 2019, 59, 106012.	1.6	5
27	Impact of electric potential and magnetic drift on microtearing modes stability. <i>Physics of Plasmas</i> , 2019, 26, 092506.	0.7	11
28	Synergy of turbulent and neoclassical transport through poloidal convective cells. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 065015.	0.9	5
29	Stability analysis of secondary modes, driven by the phase space island. <i>Nuclear Fusion</i> , 2019, 59, 086010.	1.6	2
30	Experimental trends of reflectometry frequency spectra emerging from a systematic analysis of the Tore Supra database. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	3
31	Neoclassical impurity flux in presence of turbulent generated poloidal asymmetries and pressure anisotropy. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 044006.	0.9	8
32	Influence of Toroidal Flow on Stationary Density of Collisionless Plasmas. <i>Fluids</i> , 2019, 4, 172.	0.8	1
33	Gyro-kinetic theory and global simulations of the collisionless tearing instability: The impact of trapped particles through the magnetic field curvature. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	4
34	Linear collisionless dynamics of the GAM with kinetic electrons: Comparison simulations/theory. <i>Physics of Plasmas</i> , 2019, 26, 122304.	0.7	5
35	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
36	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

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37	Stability of a slab collisional microtearing mode. Contributions To Plasma Physics, 2018, 58, 529-533.	0.5	6
38	Stabilization of a magnetic island by localized heating in a tokamak with stiff temperature profile. Physics of Plasmas, 2018, 25, 022514.	0.7	7
39	Poloidal asymmetries of flows in the Tore Supra tokamak. Physics of Plasmas, 2018, 25, .	0.7	16
40	High Z neoclassical transport: Application and limitation of analytical formulae for modelling JET experimental parameters. Physics of Plasmas, 2018, 25, .	0.7	14
41	Self-consistent gyrokinetic modeling of neoclassical and turbulent impurity transport. Nuclear Fusion, 2018, 58, 036013.	1.6	20
42	Determination of $\langle i \rangle q$ during sawtooth from inverse evolution of BAEs in Tore Supra. Nuclear Fusion, 2018, 58, 016010.	1.6	5
43	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
44	Immersed boundary conditions in global, flux-driven, gyrokinetic simulations. Journal of Physics: Conference Series, 2018, 1125, 012006.	0.3	10
45	Island Stability in Phase Space. Journal of Physics: Conference Series, 2018, 1125, 012009.	0.3	1
46	Contribution of kinetic electrons to GAM damping. Journal of Physics: Conference Series, 2018, 1125, 012010.	0.3	5
47	Comprehensive linear model for the $\langle i \rangle n \langle i \rangle = \langle i \rangle m \langle i \rangle = 1$ fishbone kinetic-MHD instability. Journal of Physics: Conference Series, 2018, 1125, 012003.	0.3	6
48	A kinetic model for the stability of a collisional current sheet. Journal of Physics: Conference Series, 2018, 1125, 012012.	0.3	3
49	Numerical experiments of island stabilization by RF heating with stiff temperature profile. Plasma Physics and Controlled Fusion, 2018, 60, 095003.	0.9	3
50	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
51	Generation and dynamics of SOL corrugated profiles. Journal of Physics: Conference Series, 2018, 1125, 012011.	0.3	5
52	Particle transport due to energetic-particle-driven geodesic acoustic modes. Nuclear Fusion, 2018, 58, 106030.	1.6	10
53	Metis: a fast integrated tokamak modelling tool for scenario design. Nuclear Fusion, 2018, 58, 105001.	1.6	71
54	Interchange destabilization of collisionless tearing modes by temperature gradient. Physics of Plasmas, 2018, 25, .	0.7	4

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55	Impurity density gradient influence on trapped particle modes. <i>Physics of Plasmas</i> , 2018, 25, 062307.	0.7	4
56	Non-linear MHD simulations of sawteeth and their control by current and power depositions. <i>Nuclear Fusion</i> , 2018, 58, 096008.	1.6	6
57	A simple model for electron dissipation in trapped ion turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	7
58	Nonlinear dynamics of turbulence driven magnetic islands. I. Theoretical aspects. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	12
59	Nonlinear dynamics of turbulence driven magnetic islands. II. Numerical simulations. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	12
60	The E $\tilde{\omega}$ – B staircase of magnetised plasmas. <i>Nuclear Fusion</i> , 2017, 57, 066026.	1.6	57
61	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
62	Cross-code gyrokinetic verification and benchmark on the linear collisionless dynamics of the geodesic acoustic mode. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	22
63	Amplification of a turbulence driven seed magnetic island by bootstrap current. <i>Nuclear Fusion</i> , 2017, 57, 072010.	1.6	10
64	Impact of poloidal convective cells on momentum flux in tokamaks. <i>New Journal of Physics</i> , 2017, 19, 015011.	1.2	10
65	An improved approximation for the analytical treatment of the local linear gyro-kinetic plasma dispersion relation in toroidal geometry. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 095004.	0.9	1
66	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
67	Benchmarking of flux-driven full-F gyrokinetic simulations. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	7
68	Evidence for Global Edge–Core Interplay in Fusion Plasmas. <i>Plasma and Fusion Research</i> , 2017, 12, 1203012-1203012.	0.3	12
69	Non-linear MHD modelling of edge localized modes dynamics in KSTAR. <i>Nuclear Fusion</i> , 2017, 57, 116059.	1.6	16
70	Edge localized mode rotation and the nonlinear dynamics of filaments. <i>Physics of Plasmas</i> , 2016, 23, 042513.	0.7	22
71	Identification of trapped electron modes in frequency fluctuation spectra. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 014037.	0.9	33
72	Full particle orbit effects in regular and stochastic magnetic fields. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	8

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73	Linear study of the precessional fishbone instability. Physics of Plasmas, 2016, 23, 102113.	0.7	1
74	Non-linear dynamics of compound sawteeth in tokamaks. Physics of Plasmas, 2016, 23, 052509.	0.7	8
75	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
76	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
77	A 5D gyrokinetic full- $\int f$ global semi-Lagrangian code for flux-driven ion turbulence simulations. Computer Physics Communications, 2016, 207, 35-68.	3.0	93
78	Extended magneto-hydro-dynamic model for neoclassical tearing mode computations. Nuclear Fusion, 2016, 56, 086004.	1.6	13
79	Dynamics of heavy impurities in non-linear MHD simulations of sawtooth tokamak plasmas. Plasma Physics and Controlled Fusion, 2016, 58, 125009.	0.9	5
80	Simulation of core turbulence measurement in Tore Supra ohmic regimes. Physics of Plasmas, 2016, 23, .	0.7	8
81	Core turbulent transport in tokamak plasmas: bridging theory and experiment with QuaLiKiz. Plasma Physics and Controlled Fusion, 2016, 58, 014036.	0.9	81
82	Global gyrokinetic simulations of trapped-electron mode and trapped-ion mode microturbulence. Physics of Plasmas, 2015, 22, 082302.	0.7	15
83	A multi-species collisional operator for full-F gyrokinetics. Physics of Plasmas, 2015, 22, .	0.7	21
84	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
85	Discriminating the trapped electron modes contribution in density fluctuation spectra. Nuclear Fusion, 2015, 55, 093021.	1.6	33
86	Finding the Elusive $\mathbf{E} \times \mathbf{B}$ Staircase in Magnetized Plasmas. Physical Review Letters, 2015, 114, 085004.	2.9	98
87	Generation of a magnetic island by edge turbulence in tokamak plasmas. Physics of Plasmas, 2015, 22, .	0.7	12
88	Shear flow instabilities induced by trapped ion modes in collisionless temperature gradient turbulence. Physics of Plasmas, 2015, 22, .	0.7	15
89	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
90	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

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91	Quasi-coherent modes and electron-driven turbulence. Nuclear Fusion, 2014, 54, 123017.	1.6	50
92	A gyro-kinetic model for trapped electron and ion modes. European Physical Journal D, 2014, 68, 1.	0.6	21
93	Penetration of resonant magnetic perturbations in turbulent edge plasmas. Nuclear Fusion, 2014, 54, 064018.	1.6	5
94	L to H mode transition: on the role of Zeff. Nuclear Fusion, 2014, 54, 022001.	1.6	38
95	Chaotic motion of charged particles in toroidal magnetic configurations. Chaos, 2014, 24, 033101.	1.0	19
96	Impurity behavior during sawtooth activity in tokamak plasmas. Physics of Plasmas, 2014, 21, 012507.	0.7	26
97	Mechanism of Edge Localized Mode Mitigation by Resonant Magnetic Perturbations. Physical Review Letters, 2014, 113, 115001.	2.9	60
98	A signature for turbulence driven magnetic islands. Physics of Plasmas, 2014, 21, 092303.	0.7	19
99	Phase space structures in gyrokinetic simulations of fusion plasma turbulence. European Physical Journal D, 2014, 68, 1.	0.6	8
100	Analytic dispersion relation of energetic particle driven geodesic acoustic modes and simulations with NEMORB. Nuclear Fusion, 2014, 54, 103006.	1.6	31
101	Relation between energetic and standard geodesic acoustic modes. Physics of Plasmas, 2014, 21, .	0.7	28
102	Dynamics of magnetic islands in large β regimes. Physics of Plasmas, 2014, 21, 020705.	0.7	11
103	Staircase temperature profiles and plasma transport self-organisation in a minimum kinetic model of turbulence based on the trapped ion mode instability. Journal of Physics: Conference Series, 2014, 561, 012003.	0.3	14
104	Self organisation of plasma turbulence: impact on radial correlation lengths. Journal of Physics: Conference Series, 2014, 561, 012008.	0.3	2
105	Impact of Energetic-Particle-Driven Geodesic Acoustic Modes on Turbulence. Physical Review Letters, 2013, 110, 125002.	2.9	78
106	Global current profile effects on the evolution and saturation of magnetic islands. Physics of Plasmas, 2013, 20, .	0.7	13
107	Higher order and asymmetry effects on saturation of magnetic islands. Physics of Plasmas, 2013, 20, .	0.7	15
108	Interplay between fast ions and turbulence in magnetic fusion plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124012.	0.9	14

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109	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
110	Screening of resonant magnetic perturbations by flows in tokamaks. <i>Nuclear Fusion</i> , 2012, 52, 054003.	1.6	106
111	Non-linear magnetohydrodynamic simulations of density evolution in Tore Supra sawtooth plasmas. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	23
112	Thermodynamical and microscopic properties of turbulent transport in the edge plasma. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012007.	0.3	7
113	Self-Consistent Dynamics of Impurities in Magnetically Confined Plasmas: Turbulence Intermittency and Nondiffusive Transport. <i>Physical Review Letters</i> , 2012, 109, 185005.	2.9	5
114	New glance at resistive ballooning modes at the edge of tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 115003.	0.9	33
115	Conservation equations and calculation of mean flows in gyrokinetics. <i>Physics of Plasmas</i> , 2011, 18, 082503.	0.7	47
116	Neoclassical physics in full distribution function gyrokinetics. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	35
117	Generation and Amplification of Magnetic Islands by Drift Interchange Turbulence. <i>Physical Review Letters</i> , 2011, 107, 095003.	2.9	41
118	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
119	Predictions on heat transport and plasma rotation from global gyrokinetic simulations. <i>Nuclear Fusion</i> , 2011, 51, 103023.	1.6	56
120	Impact of collisionality on fluctuation characteristics of micro-turbulence. <i>Physics of Plasmas</i> , 2011, 18, 012306.	0.7	42
121	Introduction to Drift Wave Turbulence Modelling. <i>Fusion Science and Technology</i> , 2010, 57, 364-371.	0.6	0
122	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
123	Particle transport in low core turbulence Tore-Supra plasmas. <i>Nuclear Fusion</i> , 2010, 50, 095009.	1.6	22
124	Large scale dynamics in flux driven gyrokinetic turbulence. <i>Nuclear Fusion</i> , 2010, 50, 054004.	1.6	81
125	Reversal of Impurity Pinch Velocity in Tokamaks Plasma with a Reversed Magnetic Shear Configuration. <i>Physical Review Letters</i> , 2010, 104, 015003.	2.9	30
126	Experimental Electron Temperature Gradient Dependence of Heavy Impurity Transport in Fusion Devices. <i>Physical Review Letters</i> , 2010, 105, 035002.	2.9	38

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127	Streamer-induced transport in the presence of trapped ion modes in tokamak plasmas. Physics of Plasmas, 2010, 17, .	0.7	20
128	Gyrokinetic simulations of turbulent transport. Nuclear Fusion, 2010, 50, 043002.	1.6	295
129	On the validity of the local diffusive paradigm in turbulent plasma transport. Physical Review E, 2010, 82, 025401.	0.8	155
130	The CRONOS suite of codes for integrated tokamak modelling. Nuclear Fusion, 2010, 50, 043001.	1.6	235
131	Residual parallel Reynolds stress due to turbulence intensity gradient in tokamak plasmas. Physics of Plasmas, 2010, 17, .	0.7	91
132	Spectroscopic determination of kinetic parameters for frequency sweeping Alfvén eigenmodes. Physics of Plasmas, 2010, 17, .	0.7	33
133	Fully nonlinear features of the energetic beam-driven instability. Physics of Plasmas, 2009, 16, .	0.7	41
134	Neoclassical equilibrium in gyrokinetic simulations. Physics of Plasmas, 2009, 16, .	0.7	26
135	Wave-Number Spectrum of Drift-Wave Turbulence. Physical Review Letters, 2009, 102, 255002.	2.9	41
136	Nonlinear Dynamics of Magnetic Islands Imbedded in Small-Scale Turbulence. Physical Review Letters, 2009, 103, 145001.	2.9	32
137	Interplay between Gyrokinetic Turbulence, Flows, and Collisions: Perspectives on Transport and Poloidal Rotation. Physical Review Letters, 2009, 103, 065002.	2.9	53
138	Effect of the curvature and the $\hat{\rho}^2$ parameter on the nonlinear dynamics of a drift tearing magnetic island. Nuclear Fusion, 2009, 49, 055016.	1.6	28
139	Anomalous transport of light and heavy impurities in Tore Supra ohmic, weakly sawtoothed plasmas. Nuclear Fusion, 2009, 49, 055007.	1.6	29
140	On the parallel momentum balance in low pressure plasmas with an inhomogeneous magnetic field. Nuclear Fusion, 2009, 49, 125001.	1.6	15
141	Entropy production and collisionless fluid closure. Plasma Physics and Controlled Fusion, 2009, 51, 115003.	0.9	16
142	Validating a quasi-linear transport model versus nonlinear simulations. Nuclear Fusion, 2009, 49, 085012.	1.6	72
143	Multiple polarization of geodesic curvature induced modes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6750-6756.	0.9	34
144	Intermittency in flux driven kinetic simulations of trapped ion turbulence. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 53-58.	1.7	24

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145	Experimental impurity transport and theoretical interpretation in a Tore Supra lower-hybrid heated plasma. Plasma Physics and Controlled Fusion, 2008, 50, 055010.	0.9	42
146	Radial electric field measurement in a tokamak with magnetic field ripple. Nuclear Fusion, 2008, 48, 092001.	1.6	32
147	Turbulence spectra and transport barriers in gyrokinetic simulations. , 2008, , .		2
148	On the influence of initial state on gyrokinetic simulations. Physics of Plasmas, 2008, 15, 042315.	0.7	15
149	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
150	Nonlinear viscoresistive dynamics of the m=1 tearing instability. Physics of Plasmas, 2008, 15, 022502.	0.7	14
151	The role of plasma elongation on the linear damping of zonal flows. Physics of Plasmas, 2008, 15, .	0.7	35
152	Global full-f gyrokinetic simulations of plasma turbulence. Plasma Physics and Controlled Fusion, 2007, 49, B173-B182.	0.9	82
153	Turbulence simulations of transport barrier relaxations in tokamak edge plasmas. Plasma Physics and Controlled Fusion, 2007, 49, 507-523.	0.9	25
154	Particle and impurity transport in the Axial Symmetric Divertor Experiment Upgrade and the Joint European Torus, experimental observations and theoretical understanding. Physics of Plasmas, 2007, 14, 055905.	0.7	52
155	Front propagation and critical gradient transport models. Physics of Plasmas, 2007, 14, .	0.7	68
156	A new gyrokinetic quasilinear transport model applied to particle transport in tokamak plasmas. Physics of Plasmas, 2007, 14, .	0.7	177
157	Fluid simulations of turbulent impurity transport. Physics of Plasmas, 2007, 14, 042301.	0.7	60
158	Critical gradient response of the Weiland model. Plasma Physics and Controlled Fusion, 2007, 49, 1221-1243.	0.9	7
159	CYSELA, a full-f global gyrokinetic Semi-Lagrangian code for ITC turbulence simulations. AIP Conference Proceedings, 2006, , .	0.3	16
160	A drift-kinetic Semi-Lagrangian 4D code for ion turbulence simulation. Journal of Computational Physics, 2006, 217, 395-423.	1.9	145
161	Fluctuation spectra and velocity profile from Doppler backscattering on Tore Supra. Nuclear Fusion, 2006, 46, S771-S779.	1.6	80
162	Recent results on turbulence and MHD activity achieved by reflectometry. Plasma Physics and Controlled Fusion, 2006, 48, B421-B432.	0.9	47

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163	Parametric dependences of impurity transport in tokamaks. Plasma Physics and Controlled Fusion, 2006, 48, B63-B74.	0.9	44
164	Kinetic features of interchange turbulence. Plasma Physics and Controlled Fusion, 2005, 47, 1817-1839.	0.9	44
165	Profile stiffness and global confinement. Plasma Physics and Controlled Fusion, 2004, 46, 1351-1373.	0.9	149
166	A review of internal transport barrier physics for steady-state operation of tokamaks. Nuclear Fusion, 2004, 44, R1-R49.	1.6	314
167	Physics of transport in tokamaks. Plasma Physics and Controlled Fusion, 2004, 46, B557-B574.	0.9	157
168	Theoretical analysis of the influence of external biasing on long range turbulent transport in the scrape-off layer. Nuclear Fusion, 2003, 43, 1013-1022.	1.6	76
169	Edge localized mode physics and operational aspects in tokamaks. Plasma Physics and Controlled Fusion, 2003, 45, A93-A113.	0.9	88
170	Internal transport barrier triggering by rational magnetic flux surfaces in tokamaks. Nuclear Fusion, 2003, 43, 1167-1174.	1.6	133
171	Turbulent Particle Transport in Magnetized Plasmas. Physical Review Letters, 2003, 91, 035001.	2.9	154
172	Transport Reduction by Rotation Shear in Tokamak-Edge Turbulence. Physical Review Letters, 2003, 90, 015002.	2.9	41
173	The quasilinear behavior of convective turbulence with sheared flows. Physics of Plasmas, 2003, 10, 1382-1388.	0.7	23
174	Turbulence simulations of transport barriers with toroidal velocity. Physics of Plasmas, 2002, 9, 3893-3905.	0.7	93
175	Stability analysis of improved confinement discharges: internal transport barriers in Tore Supra and radiative improved mode in TEXTOR. Nuclear Fusion, 2002, 42, 892-902.	1.6	76
176	Modelling of ECH modulation experiments in ASDEX Upgrade with an empirical critical temperature gradient length transport model. Plasma Physics and Controlled Fusion, 2001, 43, 1503-1524.	0.9	72
177	Turbulence in fusion plasmas: key issues and impact on transport modelling. Plasma Physics and Controlled Fusion, 2001, 43, A251-A266.	0.9	79
178	Bursty transport in tokamak turbulence: Role of zonal flows and internal transport barriers. Nuclear Fusion, 2001, 41, 995-1001.	1.6	41
179	Nonlinear three-dimensional MHD simulations of tearing modes in tokamak plasmas. Plasma Physics and Controlled Fusion, 2001, 43, A339-A348.	0.9	35
180	Curvature effects on the dynamics of tearing modes in tokamaks. Physics of Plasmas, 2001, 8, 4267-4270.	0.7	97

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181	Transport due to front propagation in tokamaks. <i>Physics of Plasmas</i> , 2000, 7, 1085-1088.	0.7	47
182	Nondiffusive Transport in Tokamaks: Three-Dimensional Structure of Bursts and the Role of Zonal Flows. <i>Physical Review Letters</i> , 2000, 85, 4892-4895.	2.9	150
183	Trapped-ion driven turbulence in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2000, 42, 949-971.	0.9	52
184	Flux driven turbulence in tokamaks. <i>Nuclear Fusion</i> , 1999, 39, 2063-2068.	1.6	55
185	Theory and simulation of rotational shear stabilization of turbulence. <i>Physics of Plasmas</i> , 1998, 5, 1784-1792.	0.7	127
186	Heat flux driven ion turbulence. <i>Physics of Plasmas</i> , 1998, 5, 2836-2845.	0.7	119
187	Action at distance and Bohm scaling of turbulence in tokamaks. <i>Physics of Plasmas</i> , 1996, 3, 1898-1907.	0.7	99
188	Radial propagation of turbulence in tokamaks. <i>Nuclear Fusion</i> , 1994, 34, 963-974.	1.6	114
189	Variational formalism for kinetic-MHD instabilities in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 1992, 34, 1089-1112.	0.9	13
190	A model for the turbulence in the scrape-off layer of tokamaks. <i>Nuclear Fusion</i> , 1991, 31, 967-972.	1.6	87
191	Microtearing turbulence and heat transport. <i>Plasma Physics and Controlled Fusion</i> , 1990, 32, 131-140.	0.9	25
192	Non-linear self consistency of microtearing modes. <i>Plasma Physics and Controlled Fusion</i> , 1988, 30, 343-363.	0.9	29