

# TÃ¼nde FÃ¼lÃ¶p

## List of Publications by Year in descending order

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128  
papers

2,718  
citations

172457

29  
h-index

254184

43  
g-index

129  
all docs

129  
docs citations

129  
times ranked

1629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Status of research toward the ITER disruption mitigation system. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	182
2	Overview of the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	181
3	Nonlinear neoclassical transport in a rotating impure plasma with large gradients. <i>Physics of Plasmas</i> , 1999, 6, 3066-3075.	1.9	64
4	Destabilization of magnetosonic-whistler waves by a relativistic runaway beam. <i>Physics of Plasmas</i> , 2006, 13, 062506.	1.9	61
5	Runaway electron drift orbits in magnetostatic perturbed fields. <i>Nuclear Fusion</i> , 2011, 51, 043004.	3.5	60
6	Effective Critical Electric Field for Runaway-Electron Generation. <i>Physical Review Letters</i> , 2015, 114, 115002.	7.8	59
7	Simulation of runaway electron generation during plasma shutdown by impurity injection in ITER. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 035014.	2.1	53
8	Numerical calculation of the runaway electron distribution function and associated synchrotron emission. <i>Computer Physics Communications</i> , 2014, 185, 847-855.	7.5	53
9	Runaway electron generation in a cooling plasma. <i>Physics of Plasmas</i> , 2005, 12, 122505.	1.9	47
10	Kinetic modelling of runaway electrons in dynamic scenarios. <i>Nuclear Fusion</i> , 2016, 56, 112009.	3.5	45
11	Effect of Partially Screened Nuclei on Fast-Electron Dynamics. <i>Physical Review Letters</i> , 2017, 118, 255001.	7.8	45
12	Origin of superthermal ion cyclotron emission in tokamaks. <i>Nuclear Fusion</i> , 1997, 37, 1281-1293.	3.5	44
13	Runaway electron losses caused by resonant magnetic perturbations in ITER. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 095004.	2.1	42
14	Influence of massive material injection on avalanche runaway generation during tokamak disruptions. <i>Nuclear Fusion</i> , 2019, 59, 084004.	3.5	42
15	Effect of partially ionized impurities and radiation on the effective critical electric field for runaway generation. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 074010.	2.1	40
16	Magnetic field threshold for runaway generation in tokamak disruptions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	39
17	Nonlinear neoclassical transport in toroidal edge plasmas. <i>Physics of Plasmas</i> , 2001, 8, 3305-3313.	1.9	38
18	Compressional Alfvén Eigenmodes on MAST. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 115011.	2.1	38

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19	Electron kinetics in a cooling plasma. <i>Physics of Plasmas</i> , 2004, 11, 5704-5709.	1.9	37
20	Numerical characterization of bump formation in the runaway electron tail. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 025016.	2.1	36
21	Effect of Poloidal Density Variation of Neutral Atoms on the Tokamak Edge. <i>Physical Review Letters</i> , 2002, 89, 225003.	7.8	35
22	The effect of ITER-like wall on runaway electron generation in JET. <i>Nuclear Fusion</i> , 2013, 53, 123017.	3.5	35
23	Study and design of the ion cyclotron resonance heating system for the stellarator Wendelstein 7-X. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	35
24	Turbulent and neoclassical impurity transport in tokamak plasmas. <i>Physics of Plasmas</i> , 2009, 16, 032306.	1.9	34
25	Synchrotron radiation from a runaway electron distribution in tokamaks. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	34
26	Quasi-linear analysis of whistler waves driven by relativistic runaway beams in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 045003.	2.1	32
27	Ion cyclotron emission from fusion products and beam ions in the Tokamak Fusion Test Reactor. <i>Nuclear Fusion</i> , 1998, 38, 761-773.	3.5	31
28	Generalized collision operator for fast electrons interacting with partially ionized impurities. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	31
29	MHD stability and disruptions in the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	31
30	Effect of poloidal asymmetry on the impurity density profile in tokamak plasmas. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	30
31	Runaway dynamics in the DT phase of ITER operations in the presence of massive material injection. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	30
32	Controlling edge plasma rotation through poloidally localized refueling. <i>Physics of Plasmas</i> , 2003, 10, 4396-4404.	1.9	29
33	The effect of resonant magnetic perturbations on runaway electron transport in ITER. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 125008.	2.1	29
34	Microtearing modes in spherical and conventional tokamaks. <i>Nuclear Fusion</i> , 2013, 53, 063025.	3.5	28
35	SOFT: a synthetic synchrotron diagnostic for runaway electrons. <i>Nuclear Fusion</i> , 2018, 58, 026032.	3.5	28
36	Evaluation of the Dreicer runaway generation rate in the presence of high- impurities using a neural network. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	26

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37	Impurity transport in ITER-like plasmas. <i>Physics of Plasmas</i> , 2006, 13, 112504.	1.9	24
38	Finite orbit width stabilizing effect on toroidal Alfvén eigenmodes excited by passing and trapped energetic ions. <i>Plasma Physics and Controlled Fusion</i> , 1996, 38, 811-828.	2.1	23
39	Influence of the radio frequency ponderomotive force on anomalous impurity transport in tokamaks. <i>Physics of Plasmas</i> , 2008, 15, 042316.	1.9	23
40	Effect of poloidal asymmetries on impurity peaking in tokamaks. <i>Physics of Plasmas</i> , 2012, 19, 052307.	1.9	23
41	The radial and poloidal localization of fast magnetoacoustic eigenmodes in tokamaks. <i>Physics of Plasmas</i> , 2000, 7, 1479-1486.	1.9	22
42	Radiation reaction induced non-monotonic features in runaway electron distributions. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	22
43	DREAM: A fluid-kinetic framework for tokamak disruption runaway electron simulations. <i>Computer Physics Communications</i> , 2021, 268, 108098.	7.5	22
44	Localization of compressional Alfvén eigenmodes in spherical tori. <i>Physics of Plasmas</i> , 2003, 10, 1437-1442.	1.9	21
45	Influence of magnetic shear on impurity transport. <i>Physics of Plasmas</i> , 2007, 14, 052303.	1.9	21
46	Impurity transport driven by ion temperature gradient turbulence in tokamak plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	21
47	On the relativistic large-angle electron collision operator for runaway avalanches in plasmas. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	21
48	Localized fast magnetoacoustic eigenmodes in tokamak plasmas. <i>Nuclear Fusion</i> , 1998, 38, 1871-1879.	3.5	20
49	Runaway electron generation in tokamak disruptions. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124008.	2.1	20
50	Effect of bremsstrahlung radiation emission on fast electrons in plasmas. <i>New Journal of Physics</i> , 2016, 18, 093023.	2.9	20
51	Effect of neutral atoms on tokamak edge plasmas. <i>Physics of Plasmas</i> , 2001, 8, 5214-5220.	1.9	19
52	Runaway electron generation during plasma shutdown by killer pellet injection. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 055006.	2.1	19
53	Impurity flows and plateau-regime poloidal density variation in a tokamak pedestal. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	19
54	Effects of magnetic perturbations and radiation on the runaway avalanche. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	19

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55	A possible mechanism responsible for generating impurity outward flow under radio frequency heating. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 115008.	2.1	18
56	Enhanced target normal sheath acceleration using colliding laser pulses. <i>Communications Physics</i> , 2019, 2, .	5.3	18
57	Poloidal asymmetries due to ion cyclotron resonance heating. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 105010.	2.1	17
58	Impurity transport in trapped electron mode driven turbulence. <i>Physics of Plasmas</i> , 2013, 20, 032310.	1.9	17
59	Energetic electron transport in the presence of magnetic perturbations in magnetically confined plasmas. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	17
60	Radiation emission in laser-wakefields driven by structured laser pulses with orbital angular momentum. <i>Scientific Reports</i> , 2019, 9, 9840.	3.3	17
61	Spatiotemporal analysis of the runaway distribution function from synchrotron images in an ASDEX Upgrade disruption. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	17
62	Modeling the complete prevention of disruption-generated runaway electron beam formation with a passive 3D coil in SPARC. <i>Nuclear Fusion</i> , 2021, 61, 124003.	3.5	17
63	NORSE: A solver for the relativistic non-linear Fokker-Planck equation for electrons in a homogeneous plasma. <i>Computer Physics Communications</i> , 2017, 212, 269-279.	7.5	16
64	Coherent Diffraction Radiation of Relativistic Terahertz Pulses from a Laser-Driven Microplasma Waveguide. <i>Physical Review Letters</i> , 2019, 123, 094801.	7.8	16
65	Neutral diffusion and anomalous effects on ion flow shear. <i>Physics of Plasmas</i> , 1998, 5, 3398-3401.	1.9	15
66	Neutral diffusion and anomalous effects on collisional ion flow shear in tokamaks. <i>Physics of Plasmas</i> , 1998, 5, 3969-3973.	1.9	15
67	Low Mach-number collisionless electrostatic shocks and associated ion acceleration. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 035004.	2.1	15
68	Relativistic magnetic reconnection driven by a laser interacting with a micro-scale plasma slab. <i>Nature Communications</i> , 2018, 9, 1601.	12.8	15
69	Effect of plasma elongation on current dynamics during tokamak disruptions. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	15
70	Laser-driven proton acceleration from ultrathin foils with nanoholes. <i>Scientific Reports</i> , 2021, 11, 5006.	3.3	15
71	Hot-Tail Runaway Seed Landscape during the Thermal Quench in Tokamaks. <i>Physical Review Letters</i> , 2021, 127, 035001.	7.8	15
72	Plasma rotation from momentum transport by neutrals in tokamaks. <i>Nuclear Fusion</i> , 2016, 56, 124002.	3.5	14

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73	Impurity transport due to electromagnetic drift wave turbulence. <i>Physics of Plasmas</i> , 2012, 19, 032301.	1.9	13
74	Ion Runaway in Lightning Discharges. <i>Physical Review Letters</i> , 2013, 111, 015006.	7.8	13
75	Quasi-linear analysis of the extraordinary electron wave destabilized by runaway electrons. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	13
76	Proton acceleration by a pair of successive ultraintense femtosecond laser pulses. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	13
77	Electron Beam Driven Generation of Frequency-Tunable Isolated Relativistic Subcycle Pulses. <i>Physical Review Letters</i> , 2019, 122, 104803.	7.8	13
78	Recent DIII-D advances in runaway electron measurement and model validation. <i>Nuclear Fusion</i> , 2019, 59, 066025.	3.5	13
79	Runaway Positrons in Fusion Plasmas. <i>Physical Review Letters</i> , 2012, 108, 225003.	7.8	12
80	Mode Conversion of Waves in the Ion-Cyclotron Frequency Range in Magnetospheric Plasmas. <i>Physical Review Letters</i> , 2013, 111, 125002.	7.8	12
81	Turbulent transport of impurities and their effect on energy confinement. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 074012.	2.1	12
82	Interpretation of runaway electron synchrotron and bremsstrahlung images. <i>Nuclear Fusion</i> , 2018, 58, 082001.	3.5	12
83	Electromagnetic waves destabilized by runaway electrons in near-critical electric fields. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	11
84	Alfvénic instabilities driven by runaways in fusion plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	11
85	Relativistic Vlasov-Maxwell modelling using finite volumes and adaptive mesh refinement. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	11
86	Kinetic and finite ion mass effects on the transition to relativistic self-induced transparency in laser-driven ion acceleration. <i>New Journal of Physics</i> , 2017, 19, 123042.	2.9	11
87	Enhancement of laser-driven ion acceleration in non-periodic nanostructured targets. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	10
88	Runaway electron generation during tokamak start-up. <i>Journal of Plasma Physics</i> , 2022, 88, .	2.1	10
89	Theory of the cross sections for inelastic scattering of electrons by core level excitations in solids. <i>Ultramicroscopy</i> , 1997, 69, 69-81.	1.9	8
90	Collisional model of quasilinear transport driven by toroidal electrostatic ion temperature gradient modes. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	8

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91	Global anomalous transport of ICRH- and NBI-heated fast ions. Plasma Physics and Controlled Fusion, 2017, 59, 044007.	2.1	8
92	Generation of attosecond electron bunches and x-ray pulses from few-cycle femtosecond laser pulses. Plasma Physics and Controlled Fusion, 2021, 63, 045019.	2.1	8
93	Assessing energy dependence of the transport of relativistic electrons in perturbed magnetic fields with orbit-following simulations. Nuclear Fusion, 2020, 60, 126050.	3.5	8
94	Collisionality dependence of the quasilinear particle flux due to microinstabilities. Physics of Plasmas, 2008, 15, 072308.	1.9	7
95	Impurity transport in Alcator C-Mod in the presence of poloidal density variation induced by ion cyclotron resonance heating. Plasma Physics and Controlled Fusion, 2014, 56, 124005.	2.1	7
96	Vlasov modelling of laser-driven collisionless shock acceleration of protons. Physics of Plasmas, 2016, 23, 053103.	1.9	7
97	Kinetic modelling of runaway electron generation in argon-induced disruptions in ASDEX Upgrade. Journal of Plasma Physics, 2020, 86, .	2.1	7
98	Runaway electron synchrotron radiation in a vertically translated plasma. Nuclear Fusion, 2020, 60, 094002.	3.5	7
99	Tokamak current driven by poloidally asymmetric fueling. Physics of Plasmas, 2006, 13, 102506.	1.9	6
100	Effect of impurities on the transition between minority ion and mode conversion ICRH heating in (3He)â€“H tokamak plasmas. Nuclear Fusion, 2013, 53, 053014.	3.5	6
101	Effects of oblique incidence and colliding pulses on laser-driven proton acceleration from relativistically transparent ultrathin targets. Journal of Plasma Physics, 2020, 86, .	2.1	6
102	Numerical calculation of ion runaway distributions. Physics of Plasmas, 2015, 22, 052122.	1.9	5
103	Edge momentum transport by neutrals: an interpretive numerical framework. Nuclear Fusion, 2017, 57, 066048.	3.5	5
104	Multimillijoule terahertz radiation from laser interactions with microplasma waveguides. Plasma Physics and Controlled Fusion, 2021, 63, 035028.	2.1	5
105	Interaction of electromagnetic waves and suprathreshold electrons in the near-critical electric field limit. Journal of Physics: Conference Series, 2012, 401, 012012.	0.4	4
106	Radio Frequency Induced and Neoclassical Asymmetries and their Effects on Turbulent Impurity Transport in a Tokamak. Contributions To Plasma Physics, 2014, 54, 534-542.	1.1	4
107	Runaway-electron formation and electron slide-away in an ITER post-disruption scenario. Journal of Physics: Conference Series, 2016, 775, 012013.	0.4	4
108	Proton acceleration in a laser-induced relativistic electron vortex. Journal of Plasma Physics, 2019, 85, .	2.1	4

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109	Modelling of runaway electron dynamics during argon-induced disruptions in ASDEX Upgrade and JET. Plasma Physics and Controlled Fusion, 2021, 63, 085021.	2.1	4
110	One-Dimensional Beam Transport Revisited. Nuclear Science and Engineering, 1998, 129, 51-60.	1.1	3
111	Slowing-Down Dynamics of Fast Particles in Plasmas via the Fokker-Planck Equation. Nuclear Science and Engineering, 2004, 146, 99-105.	1.1	3
112	Edge rotation from momentum transport by neutrals. Journal of Physics: Conference Series, 2016, 775, 012011.	0.4	3
113	Dynamics of positrons during relativistic electron runaway. Journal of Plasma Physics, 2018, 84, .	2.1	3
114	Attosecond betatron radiation pulse train. Scientific Reports, 2020, 10, 15074.	3.3	3
115	Characteristics of microinstabilities in electron cyclotron and ohmic heated discharges. Physics of Plasmas, 2011, 18, 082506.	1.9	2
116	Turbulent transport of MeV range cyclotron heated minorities as compared to alpha particles. Plasma Physics and Controlled Fusion, 2016, 58, 105001.	2.1	2
117	Origins of plateau formation in ion energy spectra under target normal sheath acceleration. Physics of Plasmas, 2017, 24, 123114.	1.9	2
118	Nonlinear Neoclassical Transport in Toroidal Edge Plasmas. Contributions To Plasma Physics, 2002, 42, 339-349.	1.1	1
119	Localized Gas Puffing Control of Edge Rotation and Electric Field. Contributions To Plasma Physics, 2004, 44, 281-282.	1.1	1
120	Effect of plasma shaping and resonance location on minority ion temperature anisotropy in tokamak plasmas heated with ICRH. Journal of Physics: Conference Series, 2012, 401, 012011.	0.4	1
121	Modelling of the ion cyclotron resonance heating scenarios for W7-X stellarator. , 2014, , .		1
122	Kazakov and F&A/4L&A/4P Reply.. Physical Review Letters, 2014, 113, 089502.	7.8	1
123	Relativistic laser plasma interactions. European Physical Journal D, 2017, 71, 1.	1.3	1
124	Attosecond dispersion as a diagnostics tool for solid-density laser-generated plasmas. Journal of Plasma Physics, 2022, 88, .	2.1	1
125	Analysis of Profile Effects on HighQSubignited Tokamak Fusion Plasmas. Physica Scripta, 1998, 58, 256-261.	2.5	0
126	Impurity transport in magnetically confined plasmas. Plasma Physics and Controlled Fusion, 2014, 56, 120301.	2.1	0



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127	plasmas. , 2014, , .		0
128	Tunneling and mode conversion of fast magnetosonic waves in the magnetospheres of Earth and Mercury. Journal of Plasma Physics, 2015, 81, .	2.1	0