

TÃ¼nde FÃ¼lÃ¶p

List of Publications by Year in descending order

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128
papers

2,718
citations

172457

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254184

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129
all docs

129
docs citations

129
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
19	Enhancement of laser-driven ion acceleration in non-periodic nanostructured targets. Journal of Plasma Physics, 2020, 86, .	2.1	10
20	Runaway electron synchrotron radiation in a vertically translated plasma. Nuclear Fusion, 2020, 60, 094002.	3.5	7
21	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
22	Radiation emission in laser-wakefields driven by structured laser pulses with orbital angular momentum. Scientific Reports, 2019, 9, 9840.	3.3	17
23	Proton acceleration in a laser-induced relativistic electron vortex. Journal of Plasma Physics, 2019, 85, .	2.1	4
24	Influence of massive material injection on avalanche runaway generation during tokamak disruptions. Nuclear Fusion, 2019, 59, 084004.	3.5	42
25	Coherent Diffraction Radiation of Relativistic Terahertz Pulses from a Laser-Driven Microplasma Waveguide. Physical Review Letters, 2019, 123, 094801.	7.8	16
26	Enhanced target normal sheath acceleration using colliding laser pulses. Communications Physics, 2019, 2, .	5.3	18
27	Electron Beam Driven Generation of Frequency-Tunable Isolated Relativistic Subcycle Pulses. Physical Review Letters, 2019, 122, 104803.	7.8	13
28	Recent DIII-D advances in runaway electron measurement and model validation. Nuclear Fusion, 2019, 59, 066025.	3.5	13
29	Evaluation of the Dreicer runaway generation rate in the presence of high-impurities using a neural network. Journal of Plasma Physics, 2019, 85, .	2.1	26
30	Low Mach-number collisionless electrostatic shocks and associated ion acceleration. Plasma Physics and Controlled Fusion, 2018, 60, 035004.	2.1	15
31	On the relativistic large-angle electron collision operator for runaway avalanches in plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	21
32	Relativistic magnetic reconnection driven by a laser interacting with a micro-scale plasma slab. Nature Communications, 2018, 9, 1601.	12.8	15
33	Dynamics of positrons during relativistic electron runaway. Journal of Plasma Physics, 2018, 84, .	2.1	3
34	Generalized collision operator for fast electrons interacting with partially ionized impurities. Journal of Plasma Physics, 2018, 84, .	2.1	31
35	Proton acceleration by a pair of successive ultraintense femtosecond laser pulses. Physics of Plasmas, 2018, 25, .	1.9	13
36	Interpretation of runaway electron synchrotron and bremsstrahlung images. Nuclear Fusion, 2018, 58, 082001.	3.5	12

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37	Effect of partially ionized impurities and radiation on the effective critical electric field for runaway generation. Plasma Physics and Controlled Fusion, 2018, 60, 074010.	2.1	40
38	SOFT: a synthetic synchrotron diagnostic for runaway electrons. Nuclear Fusion, 2018, 58, 026032.	3.5	28
39	Global anomalous transport of ICRH- and NBI-heated fast ions. Plasma Physics and Controlled Fusion, 2017, 59, 044007.	2.1	8
40	NORSE: A solver for the relativistic non-linear Fokker-Planck equation for electrons in a homogeneous plasma. Computer Physics Communications, 2017, 212, 269-279.	7.5	16
41	Edge momentum transport by neutrals: an interpretive numerical framework. Nuclear Fusion, 2017, 57, 066048.	3.5	5
42	Relativistic laser plasma interactions. European Physical Journal D, 2017, 71, 1.	1.3	1
43	Relativistic Vlasov-Maxwell modelling using finite volumes and adaptive mesh refinement. European Physical Journal D, 2017, 71, 1.	1.3	11
44	Effect of Partially Screened Nuclei on Fast-Electron Dynamics. Physical Review Letters, 2017, 118, 255001.	7.8	45
45	Kinetic and finite ion mass effects on the transition to relativistic self-induced transparency in laser-driven ion acceleration. New Journal of Physics, 2017, 19, 123042.	2.9	11
46	Origins of plateau formation in ion energy spectra under target normal sheath acceleration. Physics of Plasmas, 2017, 24, 123114.	1.9	2
47	Runaway-electron formation and electron slide-away in an ITER post-disruption scenario. Journal of Physics: Conference Series, 2016, 775, 012013.	0.4	4
48	Edge rotation from momentum transport by neutrals. Journal of Physics: Conference Series, 2016, 775, 012011.	0.4	3
49	Kinetic modelling of runaway electrons in dynamic scenarios. Nuclear Fusion, 2016, 56, 112009.	3.5	45
50	Vlasov modelling of laser-driven collisionless shock acceleration of protons. Physics of Plasmas, 2016, 23, 053103.	1.9	7
51	Effect of bremsstrahlung radiation emission on fast electrons in plasmas. New Journal of Physics, 2016, 18, 093023.	2.9	20
52	Plasma rotation from momentum transport by neutrals in tokamaks. Nuclear Fusion, 2016, 56, 124002.	3.5	14
53	Turbulent transport of MeV range cyclotron heated minorities as compared to alpha particles. Plasma Physics and Controlled Fusion, 2016, 58, 105001.	2.1	2
54	Numerical characterization of bump formation in the runaway electron tail. Plasma Physics and Controlled Fusion, 2016, 58, 025016.	2.1	36

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55	Radiation reaction induced non-monotonic features in runaway electron distributions. Journal of Plasma Physics, 2015, 81, .	2.1	22
56	Energetic electron transport in the presence of magnetic perturbations in magnetically confined plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	17
57	Status of research toward the ITER disruption mitigation system. Physics of Plasmas, 2015, 22, .	1.9	182
58	Tunneling and mode conversion of fast magnetosonic waves in the magnetospheres of Earth and Mercury. Journal of Plasma Physics, 2015, 81, .	2.1	0
59	Numerical calculation of ion runaway distributions. Physics of Plasmas, 2015, 22, 052122.	1.9	5
60	Effective Critical Electric Field for Runaway-Electron Generation. Physical Review Letters, 2015, 114, 115002.	7.8	59
61	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
62	Impurity transport in magnetically confined plasmas. Plasma Physics and Controlled Fusion, 2014, 56, 120301.	2.1	0
63	Quasi-linear analysis of the extraordinary electron wave destabilized by runaway electrons. Physics of Plasmas, 2014, 21, .	1.9	13
64	plasmas. , 2014, , .		0
65	Modelling of the ion cyclotron resonance heating scenarios for W7-X stellarator. , 2014, , .		1
66	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
67	Study and design of the ion cyclotron resonance heating system for the stellarator Wendelstein 7-X. Physics of Plasmas, 2014, 21, .	1.9	35
68	Numerical calculation of the runaway electron distribution function and associated synchrotron emission. Computer Physics Communications, 2014, 185, 847-855.	7.5	53
69	AlfvÄ©nic instabilities driven by runaways in fusion plasmas. Physics of Plasmas, 2014, 21, .	1.9	11
70	Kazakov and FÄ¼LÄ¶P Reply:. Physical Review Letters, 2014, 113, 089502.	7.8	1
71	The effect of ITER-like wall on runaway electron generation in JET. Nuclear Fusion, 2013, 53, 123017.	3.5	35
72	Mode Conversion of Waves in the Ion-Cyclotron Frequency Range in Magnetospheric Plasmas. Physical Review Letters, 2013, 111, 125002.	7.8	12

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73	Synchrotron radiation from a runaway electron distribution in tokamaks. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	34
74	Electromagnetic waves destabilized by runaway electrons in near-critical electric fields. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	11
75	Impurity transport in trapped electron mode driven turbulence. <i>Physics of Plasmas</i> , 2013, 20, 032310.	1.9	17
76	Microtearing modes in spherical and conventional tokamaks. <i>Nuclear Fusion</i> , 2013, 53, 063025.	3.5	28
77	Ion Runaway in Lightning Discharges. <i>Physical Review Letters</i> , 2013, 111, 015006.	7.8	13
78	Turbulent transport of impurities and their effect on energy confinement. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 074012.	2.1	12
79	Effect of impurities on the transition between minority ion and mode conversion ICRH heating in (3He)â€“H tokamak plasmas. <i>Nuclear Fusion</i> , 2013, 53, 053014.	3.5	6
80	Effect of poloidal asymmetries on impurity peaking in tokamaks. <i>Physics of Plasmas</i> , 2012, 19, 052307.	1.9	23
81	Impurity transport due to electromagnetic drift wave turbulence. <i>Physics of Plasmas</i> , 2012, 19, 032301.	1.9	13
82	Interaction of electromagnetic waves and suprathermal electrons in the near-critical electric field limit. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012012.	0.4	4
83	Effect of plasma shaping and resonance location on minority ion temperature anisotropy in tokamak plasmas heated with ICRH. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012011.	0.4	1
84	Poloidal asymmetries due to ion cyclotron resonance heating. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 105010.	2.1	17
85	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
86	Runaway Positrons in Fusion Plasmas. <i>Physical Review Letters</i> , 2012, 108, 225003.	7.8	12
87	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
88	Runaway electron drift orbits in magnetostatic perturbed fields. <i>Nuclear Fusion</i> , 2011, 51, 043004.	3.5	60
89	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
90	Runaway electron losses caused by resonant magnetic perturbations in ITER. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 095004.	2.1	42

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91	Effect of poloidal asymmetry on the impurity density profile in tokamak plasmas. Physics of Plasmas, 2011, 18, .	1.9	30
92	Characteristics of microinstabilities in electron cyclotron and ohmic heated discharges. Physics of Plasmas, 2011, 18, 082506.	1.9	2
93	Impurity flows and plateau-regime poloidal density variation in a tokamak pedestal. Physics of Plasmas, 2011, 18, .	1.9	19
94	Impurity transport driven by ion temperature gradient turbulence in tokamak plasmas. Physics of Plasmas, 2010, 17, .	1.9	21
95	Turbulent and neoclassical impurity transport in tokamak plasmas. Physics of Plasmas, 2009, 16, 032306.	1.9	34
96	Collisional model of quasilinear transport driven by toroidal electrostatic ion temperature gradient modes. Physics of Plasmas, 2009, 16, .	1.9	8
97	Magnetic field threshold for runaway generation in tokamak disruptions. Physics of Plasmas, 2009, 16, .	1.9	39
98	Runaway electron generation in tokamak disruptions. Plasma Physics and Controlled Fusion, 2009, 51, 124008.	2.1	20
99	Quasi-linear analysis of whistler waves driven by relativistic runaway beams in tokamaks. Plasma Physics and Controlled Fusion, 2008, 50, 045003.	2.1	32
100	Runaway electron generation during plasma shutdown by killer pellet injection. Plasma Physics and Controlled Fusion, 2008, 50, 055006.	2.1	19
101	Compressional Alfvén Eigenmodes on MAST. Plasma Physics and Controlled Fusion, 2008, 50, 115011.	2.1	38
102	Influence of the radio frequency ponderomotive force on anomalous impurity transport in tokamaks. Physics of Plasmas, 2008, 15, 042316.	1.9	23
103	Collisionality dependence of the quasilinear particle flux due to microinstabilities. Physics of Plasmas, 2008, 15, 072308.	1.9	7
104	Influence of magnetic shear on impurity transport. Physics of Plasmas, 2007, 14, 052303.	1.9	21
105	Impurity transport in ITER-like plasmas. Physics of Plasmas, 2006, 13, 112504.	1.9	24
106	Tokamak current driven by poloidally asymmetric fueling. Physics of Plasmas, 2006, 13, 102506.	1.9	6
107	Destabilization of magnetosonic-whistler waves by a relativistic runaway beam. Physics of Plasmas, 2006, 13, 062506.	1.9	61
108	Runaway electron generation in a cooling plasma. Physics of Plasmas, 2005, 12, 122505.	1.9	47

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109	Electron kinetics in a cooling plasma. <i>Physics of Plasmas</i> , 2004, 11, 5704-5709.	1.9	37
110	Localized Gas Puffing Control of Edge Rotation and Electric Field. <i>Contributions To Plasma Physics</i> , 2004, 44, 281-282.	1.1	1
111	Slowing-Down Dynamics of Fast Particles in Plasmas via the Fokker-Planck Equation. <i>Nuclear Science and Engineering</i> , 2004, 146, 99-105.	1.1	3
112	Localization of compressional Alfvén eigenmodes in spherical tori. <i>Physics of Plasmas</i> , 2003, 10, 1437-1442.	1.9	21
113	Controlling edge plasma rotation through poloidally localized refueling. <i>Physics of Plasmas</i> , 2003, 10, 4396-4404.	1.9	29
114	Effect of Poloidal Density Variation of Neutral Atoms on the Tokamak Edge. <i>Physical Review Letters</i> , 2002, 89, 225003.	7.8	35
115	Nonlinear Neoclassical Transport in Toroidal Edge Plasmas. <i>Contributions To Plasma Physics</i> , 2002, 42, 339-349.	1.1	1
116	Effect of neutral atoms on tokamak edge plasmas. <i>Physics of Plasmas</i> , 2001, 8, 5214-5220.	1.9	19
117	Nonlinear neoclassical transport in toroidal edge plasmas. <i>Physics of Plasmas</i> , 2001, 8, 3305-3313.	1.9	38
118	The radial and poloidal localization of fast magnetoacoustic eigenmodes in tokamaks. <i>Physics of Plasmas</i> , 2000, 7, 1479-1486.	1.9	22
119	Nonlinear neoclassical transport in a rotating impure plasma with large gradients. <i>Physics of Plasmas</i> , 1999, 6, 3066-3075.	1.9	64
120	Neutral diffusion and anomalous effects on ion flow shear. <i>Physics of Plasmas</i> , 1998, 5, 3398-3401.	1.9	15
121	Localized fast magnetoacoustic eigenmodes in tokamak plasmas. <i>Nuclear Fusion</i> , 1998, 38, 1871-1879.	3.5	20
122	Analysis of Profile Effects on High-Q Subignited Tokamak Fusion Plasmas. <i>Physica Scripta</i> , 1998, 58, 256-261.	2.5	0
123	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
124	Neutral diffusion and anomalous effects on collisional ion flow shear in tokamaks. <i>Physics of Plasmas</i> , 1998, 5, 3969-3973.	1.9	15
125	One-Dimensional Beam Transport Revisited. <i>Nuclear Science and Engineering</i> , 1998, 129, 51-60.	1.1	3
126	Origin of superthermal ion cyclotron emission in tokamaks. <i>Nuclear Fusion</i> , 1997, 37, 1281-1293.	3.5	44

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127	Theory of the cross sections for inelastic scattering of electrons by core level excitations in solids. Ultramicroscopy, 1997, 69, 69-81.	1.9	8
128	Finite orbit width stabilizing effect on toroidal Alfvén eigenmodes excited by passing and trapped energetic ions. Plasma Physics and Controlled Fusion, 1996, 38, 811-828.	2.1	23