

Antti Snicker

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

542
citations

687363

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h-index

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30
all docs

30
docs citations

30
times ranked

792
citing authors

#	ARTICLE	IF	CITATIONS
1	ASCOT: Solving the kinetic equation of minority particle species in tokamak plasmas. Computer Physics Communications, 2014, 185, 1310-1321.	7.5	143
2	The effect of density fluctuations on electron cyclotron beam broadening and implications for ITER. Nuclear Fusion, 2018, 58, 016002.	3.5	40
3	Effect of plasma response on the fast ion losses due to ELM control coils in ITER. Nuclear Fusion, 2016, 56, 046014.	3.5	31
4	Characterisation of the fast-ion edge resonant transport layer induced by 3D perturbative fields in the ASDEX Upgrade tokamak through full orbit simulations. Plasma Physics and Controlled Fusion, 2019, 61, 014038.	2.1	30
5	The effects of electron cyclotron heating and current drive on toroidal Alfvén eigenmodes in tokamak plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 014026.	2.1	26
6	Simulations of fast ion wall loads in ASDEX Upgrade in the presence of magnetic perturbations due to ELM-mitigation coils. Nuclear Fusion, 2012, 52, 094014.	3.5	25
7	Positrons as interface-sensitive probes of polar semiconductor heterostructures. Physical Review B, 2010, 82, .	3.2	23
8	Monte Carlo implementation of a guiding-center Fokker-Planck kinetic equation. Physics of Plasmas, 2013, 20, 092505.	1.9	21
9	Microwave beam broadening due to turbulent plasma density fluctuations within the limit of the Born approximation and beyond. Plasma Physics and Controlled Fusion, 2018, 60, 075006.	2.1	20
10	Fast ion power loads on ITER first wall structures in the presence of NTMs and microturbulence. Nuclear Fusion, 2011, 51, 083041.	3.5	19
11	Modelling one-third field operation in the ITER pre-fusion power operation phase. Nuclear Fusion, 2019, 59, 126014.	3.5	19
12	Protecting ITER walls: fast ion power loads in 3D magnetic field. Plasma Physics and Controlled Fusion, 2017, 59, 014013.	2.1	17
13	Velocity space resolved absolute measurement of fast ion losses induced by a tearing mode in the ASDEX Upgrade tokamak. Nuclear Fusion, 2018, 58, 036005.	3.5	17
14	Fast-ion physics in SPARC. Journal of Plasma Physics, 2020, 86, .	2.1	17
15	Optimizing beam-ion confinement in ITER by adjusting the toroidal phase of the 3D magnetic fields applied for ELM control. Nuclear Fusion, 2021, 61, 046006.	3.5	15
16	Realistic Simulations of Fast-Ion Wall Distribution Including Effects Due to Finite Larmor Radius. IEEE Transactions on Plasma Science, 2010, 38, 2177-2184.	1.3	12
17	First absolute measurements of fast-ion losses in the ASDEX Upgrade tokamak. Plasma Physics and Controlled Fusion, 2017, 59, 105009.	2.1	12
18	Effect of the European design of TBMs on ITER wall loads due to fast ions in the baseline (15 MA), hybrid (12.5 MA), steady-state (9 MA) and half-field (7.5 MA) scenarios. Nuclear Fusion, 2016, 56, 112024.	3.5	10

#	ARTICLE	IF	CITATIONS
19	Interaction of the electron density fluctuations with electron cyclotron waves from the equatorial launcher in ITER. Plasma Physics and Controlled Fusion, 2018, 60, 014020.	2.1	10
20	Multiscale Chirping Modes Driven by Thermal Ions in a Plasma with Reactor-Relevant Ion Temperature. Physical Review Letters, 2021, 127, 025001.	7.8	8
21	ASCOT orbit-following simulations of ion cyclotron heating with synthetic fast ion loss diagnostic: a first application to ASDEX Upgrade. Nuclear Fusion, 2021, 61, 086026.	3.5	7
22	Visualization of Fast Ion Phase-Space Flow Driven by Alfvén Instabilities. Physical Review Letters, 2021, 127, 235002.	7.8	5
23	Simulating the impact of charge exchange on beam ions in MAST-U. Plasma Physics and Controlled Fusion, 2022, 64, 035014.	2.1	4
24	Neutron rate estimates in MAST based on gyro-orbit modelling of fast ions. Nuclear Fusion, 2021, 61, 016028.	3.5	3
25	Cross-polarization scattering of diffracting electron-cyclotron beams in a turbulent plasma with the WKBeam code. Journal of Physics: Conference Series, 2016, 775, 012005.	0.4	2
26	Basic design considerations for a frequency step-tunable electron cyclotron wave system to suppress NTMs in DEMO. Fusion Engineering and Design, 2021, 173, 112931.	1.9	2
27	Modelling the Alfvén eigenmode induced fast-ion flow measured by an imaging neutral particle analyzer. Nuclear Fusion, 0, , .	3.5	2
28	Validation of neutron emission and neutron energy spectrum calculations on a Mega Ampere Spherical Tokamak with directional relativistic spectrum simulator. Plasma Physics and Controlled Fusion, 2021, 63, 015015.	2.1	1
29	Fast-ion transport and toroidal rotation response to externally applied magnetic perturbations at the ASDEX Upgrade tokamak. Nuclear Fusion, 0, , .	3.5	1
30	The deteriorating effect of plasma density fluctuations on microwave beam quality. EPJ Web of Conferences, 2019, 203, 01005.	0.3	0