

Jari Varje

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9162218/publications.pdf>

Version: 2024-02-01

21
papers

409
citations

1040056

9
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the SPARC tokamak. Journal of Plasma Physics, 2020, 86, .	2.1	181
2	Conceptual design of the DEMO neutral beam injectors: main developments and R&D achievements. Nuclear Fusion, 2017, 57, 056026.	3.5	46
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	Mechanics of ELM control coil induced fast particle transport in ITER. Nuclear Fusion, 2018, 58, 076021.	3.5	18
5	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. Nuclear Fusion, 2018, 58, 016023.	3.5	17
6	Fast-ion physics in SPARC. Journal of Plasma Physics, 2020, 86, .	2.1	17
7	Analysis of the inter-species power balance in JET plasmas. Nuclear Fusion, 2020, 60, 036004.	3.5	13
8	Role of JETPEAK database in validation of synthetic neutron camera diagnostics and ASCOT- AFSI fast particle and fusion product calculation chain in JET. Journal of Instrumentation, 2019, 14, C11013-C11013.	1.2	12
9	ITER fast ion confinement in the presence of the ITER European test blanket module. Nuclear Fusion, 2015, 55, 093010.	3.5	11
10	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
11	Monte Carlo method and High Performance Computing for solving Fokker-Planck equation of minority plasma particles. Journal of Plasma Physics, 2015, 81, .	2.1	9
12	Synthetic neutron camera and spectrometer in JET based on AFSI-ASCOT simulations. Journal of Instrumentation, 2017, 12, C09010-C09010.	1.2	7
13	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
14	Improvements in physics models of AFSI-ASCOT-based synthetic neutron diagnostics at JET. Fusion Engineering and Design, 2019, 146, 1587-1590.	1.9	6
15	Optimization-oriented modelling of neutral beam injection for EU pulsed DEMO. Plasma Physics and Controlled Fusion, 2021, 63, 065014.	2.1	6
16	Sensitivity of fast ion losses to magnetic perturbations in the European DEMO. Fusion Engineering and Design, 2019, 146, 1615-1619.	1.9	5
17	A comparative study of internal kink stability in EU DEMO designs with negative and positive triangularity. Plasma Physics and Controlled Fusion, 2021, 63, 065007.	2.1	5
18	Estimate of 3D power wall loads due to Neutral Beam Injection in EU DEMO ramp-up phase. Nuclear Materials and Energy, 2019, 18, 188-192.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Semi-empirical extrapolation of JET baseline and hybrid scenario fusion performance to D-T operation. Nuclear Fusion, 0, , .	3.5	3
20	Clearing the road for high-fidelity fast ion simulations in full three dimensions. Journal of Plasma Physics, 2018, 84, .	2.1	2
21	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. Journal of Instrumentation, 2019, 14, C09018-C09018.	1.2	0