Jari Varje

List of Publications by Year in descending order

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	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
2	Optimization-oriented modelling of neutral beam injection for EU pulsed DEMO. Plasma Physics and Controlled Fusion, 2021, 63, 065014.	2.1	6
3	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
4	Overview of the SPARC tokamak. Journal of Plasma Physics, 2020, 86, .	2.1	181
5	Fast-ion physics in SPARC. Journal of Plasma Physics, 2020, 86, .	2.1	17
6	Analysis of the inter-species power balance in JET plasmas. Nuclear Fusion, 2020, 60, 036004.	3.5	13
7	Synthetic diagnostic for the JET scintillator probe lost alpha measurements. Journal of Instrumentation, 2019, 14, C09018-C09018.	1.2	0
8	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
9	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
10	Improvements in physics models of AFSI-ASCOT-based synthetic neutron diagnostics at JET. Fusion Engineering and Design, 2019, 146, 1587-1590.	1.9	6
11	Sensitivity of fast ion losses to magnetic perturbations in the European DEMO. Fusion Engineering and Design, 2019, 146, 1615-1619.	1.9	5
12	Versatile fusion source integrator AFSI for fast ion and neutron studies in fusion devices. Nuclear Fusion, 2018, 58, 016023.	3.5	17
13	Clearing the road for high-fidelity fast ion simulations in full three dimensions. Journal of Plasma Physics, 2018, 84, .	2.1	2
14	Mechanics of ELM control coil induced fast particle transport in ITER. Nuclear Fusion, 2018, 58, 076021.	3.5	18
15	Conceptual design of the DEMO neutral beam injectors: main developments and R&D achievements. Nuclear Fusion, 2017, 57, 056026.	3.5	46
16	Synthetic neutron camera and spectrometer in JET based on AFSI-ASCOT simulations. Journal of Instrumentation, 2017, 12, C09010-C09010.	1.2	7
17	Effect of plasma response on the fast ion losses due to ELM control coils in ITER. Nuclear Fusion, 2016, 56, 046014.	3.5	31
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	ITER fast ion confinement in the presence of the European test blanket module. Nuclear Fusion, 2015, 55, 093010.	3.5	11
20	Monte Carlo method and High Performance Computing for solving Fokkerâ€“Planck equation of minority plasma particles. Journal of Plasma Physics, 2015, 81, .	2.1	9
21	Semi-empirical extrapolation of JET baseline and hybrid scenario fusion performance to D-T operation. Nuclear Fusion, 0, , .	3.5	3