Nicolas Fedorczak

List of Publications by Year
in descending order

24	417	623734	752698
papers	citations	14 h-index	20 g-index

24	24	24	501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the interplay between interchange turbulence and sheared flows. Physics of Plasmas, 2022, 29, 072306.	1.9	1
2	Cross diagnostics measurements of heat load profiles on the lower tungsten divertor of WEST in L-mode experiments. Nuclear Materials and Energy, 2021, 27, 100961.	1.3	10
3	Divertor power loads and scrape off layer width in the large aspect ratio full tungsten tokamak WEST. Nuclear Fusion, 2021, 61, 096027.	3.5	17
4	In situ observation of tungsten plasma-facing components after the first phase of operation of the WEST tokamak. Nuclear Fusion, 2021, 61, 106011.	3.5	18
5	Sustained W-melting experiments on actively cooled ITER-like plasma facing unit in WEST. Physica Scripta, 2021, 96, 124057.	2.5	19
6	A new mechanism for filament disconnection at the X-point: poloidal shear in radial E Ã— B velocity. Nuclear Fusion, 2020, 60, 046002.	3.5	6
7	Infra-red thermography estimate of deposited heat load dynamics on the lower tungsten divertor of WEST. Physica Scripta, 2020, T171, 014046.	2.5	7
8	3D structure and dynamics of filaments in turbulence simulations of WEST diverted plasmas. Nuclear Fusion, 2019, 59, 096006.	3.5	15
9	Impact of the plasma geometry on divertor power exhaust: experimental evidence from TCV and simulations with SolEdge2D and TOKAM3X. Plasma Physics and Controlled Fusion, 2018, 60, 014007.	2.1	30
10	Turbulent heat transport in TOKAM3X edge plasma simulations. Contributions To Plasma Physics, 2018, 58, 484-489.	1.1	9
11	Drive of parallel flows by turbulence and large-scale E Ã— B transverse transport in divertor geometry. Nuclear Fusion, 2017, 57, 036029.	3.5	31
12	Width of turbulent SOL in circular plasmas: A theoretical model validated on experiments in Tore Supra tokamak. Nuclear Materials and Energy, 2017, 12, 838-843.	1.3	13
13	Measurement and modelling of suprathermal electron bursts generated in front of a lower hybrid antenna. Nuclear Fusion, 2016, 56, 036004.	3.5	10
14	Multi-scale self-organisation of edge plasma turbulent transport in 3D global simulations. Plasma Physics and Controlled Fusion, 2015, 57, 054014.	2.1	19
15	Impact of the plasma-wall contact position on edge turbulent transport and poloidal asymmetries in 3D global turbulence simulations. Journal of Nuclear Materials, 2015, 463, 654-658.	2.7	9
16	Scrape-off layer power flux measurements in the Tore Supra tokamak. Journal of Nuclear Materials, 2013, 438, S184-S188.	2.7	26
17	Electrostatic transport in L-mode scrape-off layer plasmas of Tore Supra tokamak. II. Transport by fluctuations. Physics of Plasmas, 2012, 19, 072314.	1.9	17
18	Shear-induced Reynolds stress at the edge of L-mode tokamak plasmas. Nuclear Fusion, 2012, 52, 103013.	3.5	44

#	Article	IF	Citations
19	Electrostatic transport in L-mode scrape-off layer plasmas in the Tore Supra tokamak. I. Particle balance. Physics of Plasmas, 2012, 19, 072313.	1.9	12
20	Experimental investigation on the poloidal extent of the turbulent radial flux in tokamak scrape-off layer. Journal of Nuclear Materials, 2011, 415, S467-S470.	2.7	18
21	Applications of SOLEDGE-2D code to complex SOL configurations and analysis of Mach probe measurements. Journal of Nuclear Materials, 2011, 415, S589-S592.	2.7	18
22	The Mistral base case to validate kinetic and fluid turbulence transport codes of the edge and SOL plasmas. Journal of Nuclear Materials, 2011, 415, S597-S600.	2.7	13
23	Transition to supersonic flows in the edge plasma. Plasma Physics and Controlled Fusion, 2011, 53, 054019.	2.1	35
24	Flow generation and intermittent transport in the scrape-off-layer of the Tore Supra tokamak. Journal of Nuclear Materials, 2009, 390-391, 368-371.	2.7	20