

Nicolas Fedorczak

List of Publications by Year in descending order

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24
all docs

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docs citations

24
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-induced Reynolds stress at the edge of L-mode tokamak plasmas. Nuclear Fusion, 2012, 52, 103013.	3.5	44
2	Transition to supersonic flows in the edge plasma. Plasma Physics and Controlled Fusion, 2011, 53, 054019.	2.1	35
3	Drive of parallel flows by turbulence and large-scale E \times B transverse transport in divertor geometry. Nuclear Fusion, 2017, 57, 036029.	3.5	31
4	Impact of the plasma geometry on divertor power exhaust: experimental evidence from TCV and simulations with SoEdge2D and TOKAM3X. Plasma Physics and Controlled Fusion, 2018, 60, 014007.	2.1	30
5	Scrape-off layer power flux measurements in the Tore Supra tokamak. Journal of Nuclear Materials, 2013, 438, S184-S188.	2.7	26
6	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
7	Multi-scale self-organisation of edge plasma turbulent transport in 3D global simulations. Plasma Physics and Controlled Fusion, 2015, 57, 054014.	2.1	19
8	Sustained W-melting experiments on actively cooled ITER-like plasma facing unit in WEST. Physica Scripta, 2021, 96, 124057.	2.5	19
9	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
10	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
11	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
12	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
13	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
14	3D structure and dynamics of filaments in turbulence simulations of WEST diverted plasmas. Nuclear Fusion, 2019, 59, 096006.	3.5	15
15	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
16	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
17	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
18	Measurement and modelling of suprathreshold electron bursts generated in front of a lower hybrid antenna. Nuclear Fusion, 2016, 56, 036004.	3.5	10

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Turbulent heat transport in TOKAM3X edge plasma simulations. Contributions To Plasma Physics, 2018, 58, 484-489.	1.1	9
22	Infra-red thermography estimate of deposited heat load dynamics on the lower tungsten divertor of WEST. Physica Scripta, 2020, T171, 014046.	2.5	7
23	A new mechanism for filament disconnection at the X-point: poloidal shear in radial $E \times B$ velocity. Nuclear Fusion, 2020, 60, 046002.	3.5	6
24	On the interplay between interchange turbulence and sheared flows. Physics of Plasmas, 2022, 29, 072306.	1.9	1