

Jonathan Gaspar

List of Publications by Year in descending order

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all docs

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docs citations

53
times ranked

805
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics conclusions in support of ITER W divertor monoblock shaping. Nuclear Materials and Energy, 2017, 12, 60-74.	1.3	128
2	Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
3	Operating a full tungsten actively cooled tokamak: overview of WEST first phase of operation. Nuclear Fusion, 2022, 62, 042007.	3.5	39
4	Integration of fiber Bragg grating temperature sensors in plasma facing components of the WEST tokamak. Review of Scientific Instruments, 2018, 89, 063508.	1.3	32
5	Emissivity measurement of tungsten plasma facing components of the WEST tokamak. Fusion Engineering and Design, 2019, 149, 111328.	1.9	32
6	First heat flux estimation in the lower divertor of WEST with embedded thermal measurements. Fusion Engineering and Design, 2019, 146, 757-760.	1.9	25
7	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23
8	Investigation of plasma wall interactions between tungsten plasma facing components and helium plasmas in the WEST tokamak. Nuclear Fusion, 2022, 62, 076028.	3.5	22
9	Transient induced tungsten melting at the Joint European Torus (JET). Physica Scripta, 2017, T170, 014013.	2.5	20
10	The very high spatial resolution infrared thermography on ITER-like tungsten monoblocks in WEST Tokamak. Fusion Engineering and Design, 2019, 146, 1104-1107.	1.9	20
11	Sustained W-melting experiments on actively cooled ITER-like plasma facing unit in WEST. Physica Scripta, 2021, 96, 124057.	2.5	19
12	First analysis of the misaligned leading edges of ITER-like plasma facing units using a very high resolution infrared camera in WEST. Nuclear Fusion, 2020, 60, 106020.	3.5	18
13	Interpretative transport modeling of the WEST boundary plasma: main plasma and light impurities. Nuclear Fusion, 2020, 60, 126048.	3.5	18
14	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
15	In-situ assessment of the emissivity of tungsten plasma facing components of the WEST tokamak. Nuclear Materials and Energy, 2020, 25, 100851.	1.3	14
16	Infrared thermography in metallic environments of WEST and ASDEX Upgrade. Nuclear Materials and Energy, 2021, 26, 100879.	1.3	13
17	Thermal loads in gaps between ITER divertor monoblocks: First lessons learnt from WEST. Nuclear Materials and Energy, 2021, 27, 100920.	1.3	13
18	Nonlinear heat flux estimation in the JET divertor with the ITER like wall. International Journal of Thermal Sciences, 2013, 72, 82-91.	4.9	11

#	ARTICLE	IF	CITATIONS
19	Heat loads on poloidal and toroidal edges of castellated plasma-facing components in COMPASS. Nuclear Fusion, 2018, 58, 066003.	3.5	11
20	Overview of the emissivity measurements performed in WEST: in situ and post-mortem observations. Nuclear Fusion, 2022, 62, 096023.	3.5	11
21	Heat flux distribution and gyro-radius smoothing effect on misaligned CFC tile in the Tore Supra tokamak. Journal of Nuclear Materials, 2015, 463, 832-836.	2.7	10
22	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
23	Surface heat flux estimation with embedded fiber Bragg gratings measurements: Numerical study. Nuclear Materials and Energy, 2017, 12, 1077-1081.	1.3	9
24	Methodology for heat flux investigation on leading edges using infrared thermography. Nuclear Fusion, 2017, 57, 016009.	3.5	9
25	Long discharges in a steady state with $D_{2</sub>2</sub>$ and $N_{2</sub>2</sub>$ on the actively cooled tungsten upper divertor in WEST. Nuclear Fusion, 2020, 60, 126046.	3.5	9
26	Impact of divertor configuration on recycling neutral fluxes for ITER-like wall in JET H-mode plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 035006.	2.1	8
27	Design and integration of femtosecond Fiber Bragg gratings temperature probes inside actively cooled ITER-like plasma-facing components. Fusion Engineering and Design, 2021, 166, 112376.	1.9	8
28	Inverse radiation problem with infrared images to monitor plasma-facing components temperature in metallic fusion devices. Fusion Engineering and Design, 2020, 159, 111867.	1.9	7
29	Infra-red thermography estimate of deposited heat load dynamics on the lower tungsten divertor of WEST. Physica Scripta, 2020, T171, 014046.	2.5	7
30	Isotope removal experiment in JET-ILW in view of T-removal after the 2nd DT campaign at JET. Physica Scripta, 2022, 97, 044001.	2.5	7
31	An improved model for the accurate calculation of parallel heat fluxes at the JET bulk tungsten outer divertor. Nuclear Fusion, 2018, 58, 106034.	3.5	6
32	Interpretation of temperature distribution observed on W-ITER-like PFUs in WEST monitored with a very-high-resolution IR system. Fusion Engineering and Design, 2021, 168, 112387.	1.9	6
33	Prediction of spatial resolutions of future IR cameras at ITER. Quantitative InfraRed Thermography Journal, 2013, 10, 96-111.	4.2	5
34	In-situ estimation of the thermal resistance of carbon deposits in the JET tokamak. International Journal of Thermal Sciences, 2016, 104, 292-303.	4.9	5
35	Deuterium and helium outgassing following plasma discharges in WEST: Delayed D outgassing during D-to-He changeover experiments studied with threshold ionization mass spectrometry. Nuclear Materials and Energy, 2021, 26, 100885.	1.3	5
36	First temperature database achieved with Fiber Bragg Grating sensors in uncooled plasma facing components of the WEST lower divertor. Fusion Engineering and Design, 2021, 170, 112528.	1.9	5

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37	Heat flux pattern at grazing incidence in Tore Supra: Consequence of tile misalignment. Journal of Nuclear Materials, 2011, 415, S973-S976.	2.7	4
38	Heat Flux estimation in WEST divertor with embedded thermocouples. Journal of Physics: Conference Series, 2016, 745, 032091.	0.4	4
39	An ITER Challenge Absolute Surface Temperature Measurements of Low and Varying Emissivity Tungsten Plasma-Facing Components. IEEE Transactions on Plasma Science, 2020, 48, 2495-2501.	1.3	4
40	Very high-resolution infrared imagery of misaligned tungsten monoblock edge heating in the WEST tokamak. Nuclear Materials and Energy, 2021, 27, 100910.	1.3	4
41	Characterization of time varying thermophysical property of a surface layer: Numerical feasibility for JET tokamak tiles. International Journal of Heat and Mass Transfer, 2013, 56, 147-157.	4.8	3
42	Inverse heat conduction problem using thermocouple deconvolution: application to the heat flux estimation in a tokamak. Inverse Problems in Science and Engineering, 2013, 21, 854-864.	1.2	3
43	Identification of space and time varying thermal resistance: Numerical feasibility for plasma facing materials. Inverse Problems in Science and Engineering, 2014, 22, 213-231.	1.2	3
44	Power deposition on misaligned edges in COMPASS. Nuclear Materials and Energy, 2017, 12, 1374-1378.	1.3	3
45	Heat flux analysis of Type-I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor. Nuclear Materials and Energy, 2018, 17, 182-187.	1.3	3
46	Calorimetry of the JET ITER-Like Wall components. Journal of Nuclear Materials, 2013, 438, S1208-S1211.	2.7	2
47	Wall surface temperature calculation in the SolEdge2D-EIRENE transport code. Physica Scripta, 2016, T167, 014073.	2.5	2
48	Successive identification of surface heat flux and thermophysical properties of plasma facing components inside the JET tokamak: numerical feasibility. Journal of Physics: Conference Series, 2012, 395, 012073.	0.4	1
49	Thermal analysis of protruding surfaces in the JET divertor. Nuclear Fusion, 2017, 57, 066009.	3.5	1
50	Absolute temperature measurement on tungsten surfaces with monochrome and bicolor IR thermography. Nuclear Fusion, 2021, 61, 096003.	3.5	1
51	Heat source estimation in low diffusive materials. Journal of Physics: Conference Series, 2016, 745, 032092.	0.4	0
52	Thermographic reconstruction of heat load on the first wall of Wendelstein 7-X due to ECRH shine-through power. Nuclear Fusion, 2021, 61, 066002.	3.5	0
53	Thermal monitoring of W-coated graphite components facing the West Tokamak plasma with arrays of regenerated FBCs. , 2018, , .		0