

Alexandre Escarguel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/471178/publications.pdf>

Version: 2024-02-01

47
papers

624
citations

623734

14
h-index

610901

24
g-index

47
all docs

47
docs citations

47
times ranked

482
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the deuterium inventory campaign in Tore Supra: Operational conditions and particle balance. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 550-555.	2.7	63
2	Deuterium inventory in Tore Supra: reconciling particle balance and post-mortem analysis. <i>Nuclear Fusion</i> , 2009, 49, 075011.	3.5	53
3	A single laser spark in aqueous medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 64, 353-361.	2.3	40
4	Radial Convection of Plasma Structures in a Turbulent Rotating Magnetized-Plasma Column. <i>Physical Review Letters</i> , 2004, 92, 065004.	7.8	36
5	Spatiotemporal structure of low frequency waves in a magnetized plasma device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 314, 163-167.	2.1	30
6	Si II transition probabilities measurements in a laser induced plasma. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 69, 535-541.	2.3	29
7	Role of the temporal profile of femtosecond lasers of two different colours in holography. <i>Europhysics Letters</i> , 2018, 124, 64002.	2.0	28
8	Uncovering the remarkable contribution of lasers peak intensity region in holography. <i>Laser Physics Letters</i> , 2021, 18, 086003.	1.4	28
9	Analysis of asymmetric $D_{1\pm}$ spectra emitted in front of a neutralizer plate of the Tore-Supra ergodic divertor. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 261-275.	2.1	26
10	Highly nonlinear, sign-varying shift of hydrogen spectral lines in dense plasmas. <i>Physical Review E</i> , 2000, 62, 2667-2671.	2.1	24
11	Formation of spiral structures and radial convection in the edge region of a magnetized rotating plasma. <i>New Journal of Physics</i> , 2005, 7, 225-225.	2.9	23
12	Investigation of steady-state tokamak issues by long pulse experiments on Tore Supra. <i>Nuclear Fusion</i> , 2009, 49, 104010.	3.5	23
13	Dust devil dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7197-7214.	3.3	19
14	Rotation of a magnetized plasma. <i>Physics of Plasmas</i> , 2011, 18, 032108.	1.9	16
15	Development of visible spectroscopy diagnostics for W sources assessment in WEST. <i>Review of Scientific Instruments</i> , 2016, 87, 11E309.	1.3	14
16	Particle collection with the ergodic divertor of Tore Supra. <i>Nuclear Fusion</i> , 2000, 40, 1651-1668.	3.5	13
17	Influence of hot electrons on radiative properties of a helium plasma. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 85-93.	2.1	12
18	Spectral profile analysis of the $D_{1\pm}$ line in the divertor region of Tore-Supra. <i>Journal of Nuclear Materials</i> , 2001, 290-293, 854-858.	2.7	11

#	ARTICLE	IF	CITATIONS
19	Atomic and molecular deuterium edge density evaluation from spectral analysis of the $D_{1\pm}$ line shape. Plasma Physics and Controlled Fusion, 2001, 43, 1733-1746.	2.1	11
20	Plasma flow and carbon production and circulation with the ergodic divertor of Tore Supra. Nuclear Fusion, 2007, 47, 119-134.	3.5	11
21	Optical diagnostics of a low frequency instability rotating around a magnetized plasma column. European Physical Journal D, 2010, 56, 209-214.	1.3	10
22	Characterization of the carbon erosion on the limiter of Tore Supra. Journal of Nuclear Materials, 2009, 390-391, 65-67.	2.7	9
23	Spatially resolved determination of the electronic density and temperature by a visible spectro-tomography diagnostic in a linear magnetized plasma. Scientific Reports, 2020, 10, 5389.	3.3	9
24	Experimental and theoretical evaluation of the HeII6560.1 Å... line contribution to the deuterium $D_{1\pm}$ spectral line shape in Tore Supra Ergodic Divertor plasmas. Plasma Physics and Controlled Fusion, 2001, 43, 177-194.	2.1	8
25	Measurements and controls implementation for WEST. Fusion Engineering and Design, 2017, 123, 1029-1032.	1.9	8
26	Characterisation of radiation and flux measurements on a neutraliser plate of the Tore Supra ergodic divertor. Journal of Nuclear Materials, 2001, 290-293, 250-254.	2.7	7
27	Science and technology research and development in support to ITER and the Broader Approach at CEA. Nuclear Fusion, 2013, 53, 104023.	3.5	6
28	Characterisation of coherent rotating modes in a magnetised plasma column using a mono-sensor tomography diagnostic. Physics of Plasmas, 2016, 23, .	1.9	6
29	Formation of spiral structures of turbulence driven by a strong rotation in magnetically cylindrical plasmas. Physics of Plasmas, 2019, 26, 042305.	1.9	6
30	Experimental study of a drifting low temperature plasma extracted from a magnetized plasma column. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 360, 299-303.	2.1	5
31	Spatially resolved charge exchange flux calculations on the Toroidal Pumped Limiter of Tore Supra. Journal of Nuclear Materials, 2009, 390-391, 482-485.	2.7	5
32	Ion velocity analysis of rotating structures in a magnetic linear plasma device. Physics of Plasmas, 2018, 25, .	1.9	5
33	Holography in education and popular science: a new versatile and vibrationless color device. European Journal of Physics, 2019, 40, 015301.	0.6	5
34	A tomography diagnostic in the visible spectrum to investigate turbulence and coherent modes in the linear plasma column Mistral. Review of Scientific Instruments, 2017, 88, 113507.	1.3	4
35	Hydrogen lines in correlated plasmas. European Physical Journal Special Topics, 2000, 10, Pr5-501-Pr5-504.	0.2	3
36	Spectroscopic analysis of the plasma-neutral relaxation near to the plasma boundary. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 71, 455-463.	2.3	3

#	ARTICLE	IF	CITATIONS
37	An easy teaching tool for holography. European Journal of Physics, 2012, 33, 1803-1811.	0.6	3
38	An easy physics outreach and teaching tool for holography. Journal of Physics: Conference Series, 2013, 415, 012063.	0.4	3
39	Spectroscopic study of neon emission and retention in the Tore Supra ergodic divertor. Journal of Nuclear Materials, 2001, 290-293, 872-876.	2.7	2
40	Modelling of Spectral Lines Emitted by Hydrogen Isotopes for Ionising and Recombining Plasma Conditions of Tokamak Edges. Contributions To Plasma Physics, 2002, 42, 206-211.	1.1	2
41	D Experimental Study in Tore-Supra Ergodic Divertor Plasmas: Molecular Deuterium Density Measurements. Contributions To Plasma Physics, 2002, 42, 622-629.	1.1	2
42	Study of the Plasma-Neutral Relaxation in Tore-Supra Edge Plasmas. Contributions To Plasma Physics, 2002, 42, 630-634.	1.1	1
43	Investigation of particle diffusion and suprathermal electrons in a magnetized helium plasma column. Physics of Plasmas, 2014, 21, 023502.	1.9	1
44	Diagnostics of inhomogeneous plasmas: correction coefficients of the self-absorption and of the effect of spatial inhomogeneity. Journal of Plasma Physics, 2016, 82, .	2.1	1
45	Simulation results for PLATO: a prototype hybrid X-ray photon counting detector with a low energy threshold for fusion plasma diagnostics. Journal of Instrumentation, 2017, 12, C01036-C01036.	1.2	0
46	A very large aperture spectrometer for low light optical emission spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012046.	0.4	0
47	Response to "Comment on "Ion velocity analysis of rotating structures in a magnetic linear plasma device" [Phys. Plasmas 27, 014701 (2020)]. Physics of Plasmas, 2020, 27, 014703.	1.9	0