Juan Pablo Catalan

List of Publications by Year
in descending order

29	391	840776	794594
papers	citations	11	19
		h-index	g-index

29	29	29	476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of JET results for optimising ITER operation. Nuclear Fusion, 2022, 62, 042026.	3.5	52
2	D1SUNED system for the determination of decay photon related quantities. Fusion Engineering and Design, 2020, 151, 111399.	1.9	42
3	Development of the R2SUNED Code System for Shutdown Dose Rate Calculations. IEEE Transactions on Nuclear Science, 2016, 63, 375-384.	2.0	39
4	On the solvatochromism of the n →π* electronic transitions in ketones. Physical Chemistry Chemical Physics, 2011, 13, 4072.	2.8	31
5	Methodological approach for DEMO neutronics in the European PPPT programme: Tools, data and analyses. Fusion Engineering and Design, 2017, 123, 26-31.	1.9	30
6	Neutronic analyses and tools development efforts in the European DEMO programme. Fusion Engineering and Design, 2014, 89, 1880-1884.	1.9	24
7	ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET. Fusion Engineering and Design, 2017, 123, 171-176.	1.9	20
8	Neutronics experiments and analyses in preparation of DT operations at JET. Fusion Engineering and Design, 2016, 109-111, 895-905.	1.9	19
9	Shutdown dose rate assessment for a DCLL blanket-based reactor: Application of the R2S-UNED approach. Fusion Engineering and Design, 2013, 88, 2088-2091.	1.9	18
10	MCNP model of the ITER Tokamak Complex. Fusion Engineering and Design, 2018, 136, 859-863.	1.9	16
11	ITER plasma source and building modelling to produce radiation maps. Nuclear Fusion, 2018, 58, 126012.	3.5	15
12	Neutronic analysis of a dual He/LiPb coolant breeding blanket for DEMO. Fusion Engineering and Design, 2011, 86, 2293-2296.	1.9	9
13	Global shutdown dose rate maps for a DEMO conceptual design. Fusion Engineering and Design, 2015, 98-99, 1524-1527.	1.9	9
14	Questioning the photophysical model for the indole chromophore in the light of evidence obtained by controlling the non-specific effect of the medium with 1-chlorobutane as solvent. Physical Chemistry Chemical Physics, 2011, 13, 15022.	2.8	8
15	Development of the automatic void generation module in GEOUNED conversion tool. Fusion Engineering and Design, 2021, 168, 112366.	1.9	8
16	Development of radiation sources for nuclear analysis beyond ITER bio-shield: SRC-UNED code. Computer Physics Communications, 2022, 275, 108309.	7.5	8
17	Preliminary neutronic assessment of a helium-cooled Li8PbO6 breeding blanket design for DEMO. Fusion Engineering and Design, 2012, 87, 195-199.	1.9	6
18	Shielding proposal to reduce cross-talk from ITER lower port to equatorial port. Fusion Engineering and Design, 2015, 101, 67-72.	1.9	5

#	Article	IF	Citations
19	Neutronics in support of the Bioshield Plug design of equatorial port 12 for ITER. Fusion Engineering and Design, 2015, 96-97, 231-235.	1.9	5
20	Assessment and optimization of MCNP memory management for detailed geometry of nuclear fusion facilities. Fusion Engineering and Design, 2018, 136, 386-389.	1.9	5
21	Uncertainty propagation from neutron flux to decay gamma source in R2S methodology. Fusion Engineering and Design, 2019, 146, 1100-1103.	1.9	4
22	Development of a methodology to estimate the statistical SDR uncertainty with R2S-UNED. Fusion Engineering and Design, 2021, 168, 112696.	1.9	4
23	Preliminary neutronic assessments for the development of the VIS/IR diagnostic systems located in the ITER EPP. Fusion Engineering and Design, 2015, 100, 629-637.	1.9	3
24	Dynamic and thermal simulations of a fast-ion loss detector for ITER. Fusion Engineering and Design, 2017, 123, 807-810.	1.9	3
25	Assessment of radioactive wastes from a DCLL fusion reactor: Disposal in El Cabril facility. Fusion Engineering and Design, 2014, 89, 2038-2042.	1.9	2
26	Activity inventories and decay heat calculations for a DEMO with HCPB and HCLL blanket modules. Fusion Engineering and Design, 2016, 109-111, 347-352.	1.9	2
27	Shutdown dose rate assessment of the interspace components of wide angle viewing system diagnostic for ITER. Fusion Engineering and Design, 2021, 172, 112916.	1.9	2
28	Analysis of discrepancies between D1S and R2S results of 2016 DD JET Campaign. Nuclear Fusion, 2022, 62, 096015.	3.5	2
29	A method for assessing 3D decay heat and temperature considering accurate distributions of the decay gamma fields. Fusion Engineering and Design, 2021, 168, 112610.	1.9	0