

# Juan Pablo Catalan

## List of Publications by Year in descending order

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times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of JET results for optimising ITER operation. Nuclear Fusion, 2022, 62, 042026.	3.5	52
2	Development of radiation sources for nuclear analysis beyond ITER bio-shield: SRC-UNED code. Computer Physics Communications, 2022, 275, 108309.	7.5	8
3	Analysis of discrepancies between D1S and R2S results of 2016 DD JET Campaign. Nuclear Fusion, 2022, 62, 096015.	3.5	2
4	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
5	Development of the automatic void generation module in GEOUNED conversion tool. Fusion Engineering and Design, 2021, 168, 112366.	1.9	8
6	Development of a methodology to estimate the statistical SDR uncertainty with R2S-UNED. Fusion Engineering and Design, 2021, 168, 112696.	1.9	4
7	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
8	D1SUNED system for the determination of decay photon related quantities. Fusion Engineering and Design, 2020, 151, 111399.	1.9	42
9	Uncertainty propagation from neutron flux to decay gamma source in R2S methodology. Fusion Engineering and Design, 2019, 146, 1100-1103.	1.9	4
10	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
11	MCNP model of the ITER Tokamak Complex. Fusion Engineering and Design, 2018, 136, 859-863.	1.9	16
12	ITER plasma source and building modelling to produce radiation maps. Nuclear Fusion, 2018, 58, 126012.	3.5	15
13	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
14	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
15	Dynamic and thermal simulations of a fast-ion loss detector for ITER. Fusion Engineering and Design, 2017, 123, 807-810.	1.9	3
16	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
17	Neutronics experiments and analyses in preparation of DT operations at JET. Fusion Engineering and Design, 2016, 109-111, 895-905.	1.9	19
18	Development of the R2SUNED Code System for Shutdown Dose Rate Calculations. IEEE Transactions on Nuclear Science, 2016, 63, 375-384.	2.0	39

#	ARTICLE	IF	CITATIONS
19	Shielding proposal to reduce cross-talk from ITER lower port to equatorial port. Fusion Engineering and Design, 2015, 101, 67-72.	1.9	5
20	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
21	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
22	Global shutdown dose rate maps for a DEMO conceptual design. Fusion Engineering and Design, 2015, 98-99, 1524-1527.	1.9	9
23	Neutronic analyses and tools development efforts in the European DEMO programme. Fusion Engineering and Design, 2014, 89, 1880-1884.	1.9	24
24	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
25	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
26	Preliminary neutronic assessment of a helium-cooled Li8PbO6 breeding blanket design for DEMO. Fusion Engineering and Design, 2012, 87, 195-199.	1.9	6
27	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
28	On the solvatochromism of the $n \rightarrow \pi^*$ electronic transitions in ketones. Physical Chemistry Chemical Physics, 2011, 13, 4072.	2.8	31
29	Neutronic analysis of a dual He/LiPb coolant breeding blanket for DEMO. Fusion Engineering and Design, 2011, 86, 2293-2296.	1.9	9