

# Fermã-n Castillo Mejã-a

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7538148/publications.pdf>

Version: 2024-02-01

21  
papers

478  
citations

933447

10  
h-index

794594

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of thermal and non-thermal mechanisms coexisting in dense plasma focus D-D nuclear reactions. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 141-147.	2.8	73
2	Small plasma focus studied as a source of hard X-ray. <i>IEEE Transactions on Plasma Science</i> , 2001, 29, 921-926.	1.3	70
3	Characterization of the axial plasma shock in a table top plasma focus after the pinch and its possible application to testing materials for fusion reactors. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	51
4	Isotropic and anisotropic components of neutron emissions at the FN-II and PACO dense plasma focus devices. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 289-300.	2.1	48
5	Some experimental research on anisotropic effects in the neutron emission of dense plasma-focus devices. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 1499-1506.	2.8	47
6	Neutron anisotropy and X-ray production of the FN-II dense plasma focus device. <i>Brazilian Journal of Physics</i> , 2002, 32, 3.	1.4	46
7	Fast neutron dosimetry using CR-39 track detectors with polyethylene as radiator. <i>Radiation Measurements</i> , 2013, 50, 71-73.	1.4	43
8	Filamentary structures in dense plasma focus: Current filaments or vortex filaments?. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	32
9	Langmuir Probe and Optical Emission Spectroscopy Studies of Low-Pressure Gas Mixture of CO <sub>2</sub> and N <sub>2</sub> . <i>Plasma Science and Technology</i> , 2010, 12, 314-319.	1.5	17
10	Experimental studies on the formation of argon atoms in Ar+ atoms collisions. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 107-116.	1.5	12
11	Optical and Electrical Characteristics of AC Glow-Discharge Plasma in N <sub>2</sub> O. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 1497-1502.	1.3	9
12	Comparative study on the decomposition process of N-isopropylacrylamide in He, N <sub>2</sub> and air plasmas. <i>Plasma Sources Science and Technology</i> , 2007, 16, 427-433.	3.1	9
13	Experimental study of single-electron loss by Ar <sup>+</sup> ions in rare-gas atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 1485-1495.	1.5	6
14	Small plasma focus as neutron pulsed source for nuclides identification. <i>Review of Scientific Instruments</i> , 2013, 84, 103501.	1.3	6
15	N <sup>+</sup> charge transfer in N <sub>2</sub> at low-keV collisions. <i>International Journal of Mass Spectrometry</i> , 2002, 218, 161-165.	1.5	3
16	Neutron yield and pressure evolution during a dense plasma focus device shot series. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5902-5906.	2.8	3
17	Experimental investigation of the formation of N atoms in N + Ne, Kr, and Xe collisions. <i>International Journal of Mass Spectrometry</i> , 2001, 208, 81-88.	1.5	1
18	Neutron Emission and Angular Distribution in Compact Plasma Focus Devices Operating at Hundreds of Joules. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1

#	ARTICLE	IF	CITATIONS
19	Failure Analysis of Austenitic Stainless Steel Implant Screws and Prospection of Chemical Composition Using Artificial Intelligence. World Journal of Engineering and Technology, 2022, 10, 98-118.	0.5	1
20	Surface modification of polyethylene terephthalate (PET) by corona discharge plasma. Journal of Nuclear Physics Material Sciences Radiation and Applications, 2021, 8, 129-134.	0.2	0
21	Mapping of Radon ( $^{220}\text{Rn}$ and $^{222}\text{Rn}$ ) Concentration Distribution in a Microclimate Condition Cellar Using Nuclear Track Methodology. Journal of Environmental Protection, 2019, 10, 919-928.	0.7	0