

# J J E Herrera-Velázquez

## List of Publications by Year in descending order

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29  
papers

328  
citations

840776

11  
h-index

839539

18  
g-index

29  
all docs

29  
docs citations

29  
times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Fast neutron dosimetry using CR-39 track detectors with polyethylene as radiator. <i>Radiation Measurements</i> , 2013, 50, 71-73.	1.4	43
4	Reaction-diffusion equations in one dimension: particular solutions and relaxation. <i>Physica D: Nonlinear Phenomena</i> , 1992, 57, 249-266.	2.8	24
5	Lyapunov stability analysis of magnetohydrodynamic plasma equilibria with axisymmetric toroidal flow. <i>Physics of Fluids</i> , 1988, 31, 1930.	1.4	23
6	Angular distribution of fusion products and x rays emitted by a small dense plasma focus machine. <i>Journal of Applied Physics</i> , 2007, 101, 013303.	2.5	20
7	High contrast radiography using a small dense plasma focus. <i>Applied Physics Letters</i> , 2008, 92, 051502.	3.3	19
8	Radiative instabilities in plasmas: impurity motion and recombination effects. <i>Plasma Physics and Controlled Fusion</i> , 1995, 37, 285-294.	2.1	15
9	Entropy production and transport in relation to Tokamak temperature profiles. <i>Plasma Physics and Controlled Fusion</i> , 1992, 34, 977-988.	2.1	13
10	Slow Thermal Waves in Impurity Seeded Radiative Plasmas. <i>Physical Review Letters</i> , 1996, 76, 760-763.	7.8	13
11	Davydov soliton evolution in temperature gradients driven by hyperbolic waves. <i>Physica D: Nonlinear Phenomena</i> , 2004, 191, 156-177.	2.8	13
12	Impact of E $\times$ B drifts on impurity distribution in the scrape-off layer of a tokamak. <i>Physics of Plasmas</i> , 2000, 7, 1184-1191.	1.9	9
13	Results of Joint Experiments and other IAEA activities on research using small tokamaks. <i>Nuclear Fusion</i> , 2009, 49, 104026.	3.5	9
14	Neutron emission characterisation at the FN-II Dense Plasma Focus. <i>Journal of Physics: Conference Series</i> , 2014, 511, 012021.	0.4	6
15	Impurity penetration through the stochastic layer near the separatrix in tokamaks. <i>Physics of Plasmas</i> , 1995, 2, 1540-1547.	1.9	4
16	On the beam-target nature of neutron production in the FN-II dense plasma focus device. , 2001, , .		4
17	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
18	LWR spent fuel transmutation with fusion-fission hybrid reactors. <i>Progress in Nuclear Energy</i> , 2013, 65, 50-55.	2.9	3

#	ARTICLE	IF	CITATIONS
19	Design and Simulation of ISTTOK Real-Time Magnetic Multiple-Input Multiple-Output Control. IEEE Transactions on Plasma Science, 2018, 46, 2362-2369.	1.3	3
20	Effect of induced toroidal rotation on poloidal rotation and ion heat conductivity of tokamak edge plasmas. Plasma Physics and Controlled Fusion, 1997, 39, 1681-1692.	2.1	2
21	Real-time plasma control based on the ISTTOK tomography diagnostic. Review of Scientific Instruments, 2008, 79, 10F329.	1.3	2
22	Bean-Shaped Spherical Tokamak Equilibrium With Ergodic Limiter. IEEE Transactions on Plasma Science, 2014, 42, 585-589.	1.3	2
23	Complementary Characterization of Laser-Induced Plasmas by Optical Emission Spectroscopy and Triple Langmuir Probe. IEEE Transactions on Plasma Science, 2019, 47, 5299-5305.	1.3	2
24	Hall-magnetohydrodynamic ion acceleration model in a z-pinch discharge during $\alpha = 0$ instability. Plasma Physics and Controlled Fusion, 2009, 51, 075012.	2.1	1
25	Dynamics of the expansion discharge originated by a dense plasma focus. Journal of Physics: Conference Series, 2012, 370, 012059.	0.4	1
26	Soft x-ray measurements in the FN-II dense plasma focus device for different anode configurations. Journal of Physics: Conference Series, 2012, 370, 012057.	0.4	0
27	Feasibility of a multi-purpose demonstration neutron source based on a compact superconducting spherical tokamak. Fusion Engineering and Design, 2013, 88, 3312-3323.	1.9	0
28	Special Issue on Selected Papers of the 16th Latin American Workshop on Plasma Physics (LAWPP 2017). IEEE Transactions on Plasma Science, 2018, 46, 2346-2347.	1.3	0
29	Exploring the limits of Solov'ev profiles. Physics of Plasmas, 2021, 28, 092509.	1.9	0