Sing Lee

List of Publications by Year
in descending order

35 papers	1,708 citations	430874 18 h-index	414414 32 g-index
35 all docs	35 docs citations	35 times ranked	308 citing authors

#	Article	IF	Citations
1	A simple facility for the teaching of plasma dynamics and plasma nuclear fusion. American Journal of Physics, 1988, 56, 62-68.	0.7	253
2	Dimensions and lifetime of the plasma focus pinch. IEEE Transactions on Plasma Science, 1996, 24, 1101-1105.	1.3	213
3	High rep rate high performance plasma focus as a powerful radiation source. IEEE Transactions on Plasma Science, 1998, 26, 1119-1126.	1.3	175
4	Plasma Focus Radiative Model: Review of the Lee Model Code. Journal of Fusion Energy, 2014, 33, 319-335.	1.2	127
5	Pinch current limitation effect in plasma focus. Applied Physics Letters, 2008, 92, .	3.3	97
6	Operation of nx2 dense plasma focus device with argon filling as a possible radiation source for micro-machining. IEEE Transactions on Plasma Science, 2002, 30, 1331-1338.	1.3	79
7	Optimizing UNU/ICTP PFF Plasma Focus for Neon Soft X-ray Operation. IEEE Transactions on Plasma Science, 2009, 37, 1276-1282.	1.3	71
8	Plasma focus ion beam fluence and fluxâ€"For various gases. Physics of Plasmas, 2013, 20, .	1.9	67
9	Current and neutron scaling for megajoule plasma focus machines. Plasma Physics and Controlled Fusion, 2008, 50, 105005.	2.1	61
10	Spectral study of the electron beam emitted from a 3â€‰kJ plasma focus. Plasma Sources Science and Technology, 2005, 14, 549-560.	3.1	60
11	Numerical experiments on plasma focus neutron yield versus pressure compared with laboratory experiments. Plasma Physics and Controlled Fusion, 2009, 51, 075006.	2.1	58
12	Model Parameters Versus Gas Pressure in Two Different Plasma Focus Devices Operated in Argon and Neon. Journal of Fusion Energy, 2012, 31, 13-20.	1.2	58
13	Characterizing Plasma Focus Devicesâ€"Role of the Static Inductanceâ€"Instability Phase Fitted by Anomalous Resistances. Journal of Fusion Energy, 2011, 30, 277-282.	1.2	56
14	Nonperturbing plasma-focus measurements in the run-down phase. IEEE Transactions on Plasma Science, 1989, 17, 311-315.	1.3	48
15	Numerical Experiments on Radiative Cooling and Collapse in Plasma Focus Operated in Krypton. Journal of Fusion Energy, 2013, 32, 42-49.	1.2	44
16	An improved radiative plasma focus model calibrated for neon-filled NX2 using a tapered anode. Plasma Sources Science and Technology, 2007, 16, 116-123.	3.1	40
17	Update on the Scientific Status of the Plasma Focus. Plasma, 2021, 4, 450-669.	1.8	29
18	Magnetic Probe Measurements in INTI Plasma Focus to Determine Dependence of Axial Speed with Pressure in Neon. Journal of Fusion Energy, 2012, 31, 411-417.	1.2	23

#	Article	IF	Citations
19	Radiative Collapse in Plasma Focus Operated with Heavy Noble Gases. Journal of Fusion Energy, 2013, 32, 111-116.	1.2	18
20	Properties of Ion Beams Generated by Nitrogen Plasma Focus. Journal of Fusion Energy, 2014, 33, 189-197.	1.2	18
21	SXR Measurements in INTI PF Operated in Neon to Identify Typical (Normal N) Profile for Shots With Good Yield. IEEE Transactions on Plasma Science, 2013, 41, 3166-3172.	1.3	15
22	Some Generalised Characteristics of the Electro-dynamics of the Plasma Focus in Its Axial Phase: Illustrated by an Application to Independantly Determine the Drive Current Fraction and the Mass Swept-Up Fraction. Journal of Fusion Energy, 2014, 33, 235-241.	1.2	14
23	Magnetic Reynolds Number and Neon Current Sheet Structure in the Axial Phase of a Plasma Focus. Journal of Fusion Energy, 2013, 32, 50-55.	1.2	13
24	Conditions for Radiative Cooling and Collapse in the Plasma Focus Illustrated With Numerical Experiments on PF1000. IEEE Transactions on Plasma Science, 2016, 44, 165-173.	1.3	13
25	The Plasma Focusâ€"Numerical Experiments, Insights and Applications. , 2017, , 113-232.		13
26	Deuterium Plasma Focus as a Tool for Testing Materials of Plasma Facing Walls in Thermonuclear Fusion Reactors. Journal of Fusion Energy, 2016, 35, 694-701.	1.2	12
27	Comparison of measured and computed radial trajectories of plasma focus devices UMDPF1 and UMDPF0. Physics of Plasmas, 2015, 22, 092702.	1.9	6
28	Measurements and Simulations of Neutron Emission Versus Deuterium Filling Pressure in Plasma Focus Device PF-24. Journal of Fusion Energy, 2018, 37, 124-129.	1.2	6
29	The study of pinch regimes based on radiation-enhanced compression and anomalous resistivity phenomena and their effects on hard x-ray emission in a Mather type dense plasma focus device (SABALAN2). Physics of Plasmas, 2015, 22, 123507.	1.9	5
30	Effects of Power Terms and Thermodynamics on the Contraction of Pinch Radius in Plasma Focus Devices Using the Lee Model. Journal of Fusion Energy, 2016, 35, 807-815.	1.2	5
31	Investigation of the Measured and Computed Neutron Yield From the PF-24 Device Operated With D2-x %Ar Admixture. IEEE Transactions on Plasma Science, 2019, 47, 4301-4311.	1.3	4
32	Measurement of Model Parameters Versus Gas Pressure in High-Performance Plasma Focus NX1 and NX2 Operated in Neon. IEEE Transactions on Plasma Science, 2017, 45, 2292-2297.	1.3	3
33	Results of plasma radiative compression investigation in the PF-24 device operated with D2, Ar and (100%-x)D2+x%Ar mixtures obtained using the 5-phase Lee model code. Applied Radiation and Isotopes, 2022, 182, 110118.	1.5	3
34	Thermonuclearizing the plasma focus â€“ Converting plasma focus fusion mechanism from beam-gas target to thermonuclear. Plasma Physics and Controlled Fusion, 0, , .	2.1	1
35	Experimental and numerical fitting of model parameters versus the gas pressure using six phase radiative Lee model in AECS PF-1, 2 and INTI PF for nitrogen, argon, and neon gases. Contributions To Plasma Physics, 2020, 60, e201900119.	1.1	0