JosÃ© Ignacio FernÃ¡ndez Palop

List of Publications by Year
in descending order

35	480	623734 14	713466 21
papers	citations	h-index	g-index

35	35	35	134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low Electron Temperature Plasma Diagnosis: Revisiting Langmuir Electrostatic Probes. Coatings, 2021, 11, 1158.	2.6	4
2	Influence of the Ion Mass in the Radial to Orbital Transition in Weakly Collisional Low-Pressure Plasmas Using Cylindrical Langmuir Probes. Applied Sciences (Switzerland), 2020, 10, 5727.	2.5	4
3	Accurate measurement of the ion saturation current collected by a cylindrical Langmuir probe in cold plasmas. Plasma Processes and Polymers, 2020, 17, 2000073.	3.0	4
4	Floating potential calculation for a Langmuir probe in electronegative plasmas and experimental validation in a glow discharge. Plasma Physics and Controlled Fusion, 2019, 61, 095015.	2.1	4
5	Influence of collisions in a fluid model for the warm-ion sheath around a cylindrical Langmuir probe. Plasma Sources Science and Technology, 2019, 28, 115017.	3.1	3
6	Floating potential in electronegative plasmas for non-zero ion temperatures. Plasma Sources Science and Technology, 2018, 27, 025014.	3.1	10
7	Removal of singularity in radial Langmuir probe models for non-zero ion temperature. Physics of Plasmas, 2017, 24, 103516.	1.9	9
8	Ion injection in electrostatic particle-in-cell simulations of the ion sheath. Journal of Computational Physics, 2017, 350, 747-758.	3.8	6
9	Radial-to-orbital motion transition in cylindrical Langmuir probes studied with particle-in-cell simulations. Plasma Sources Science and Technology, 2016, 25, 01LT03.	3.1	15
10	Experimental radial motion to orbital motion transition in cylindrical Langmuir probes in low pressure plasmas. Plasma Sources Science and Technology, 2015, 24, 025026.	3.1	6
11	Virtual Instrument for automatic low temperature plasmas diagnostic considering finite positive ion temperature. Measurement: Journal of the International Measurement Confederation, 2014, 55, 66-73.	5.0	12
12	Boundary layer structure of the sheath surrounding a cylindrical or spherical probe in electronegative plasmas. Plasma Sources Science and Technology, 2012, 21, 055026.	3.1	6
13	Experimental study of the ion current to a cylindrical Langmuir probe taking into account a finite ion temperature. Journal of Applied Physics, 2012, 111, 063303.	2.5	13
14	Mass spectrometry diagnosis of ion species in low-pressure plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 124024.	2.1	8
15	Study of the electropositive to electronegative sheath transition in weakly ionized plasmas. Plasma Sources Science and Technology, 2011, 20, 015019.	3.1	9
16	Study of sheath thickness in weakly ionized plasmas and its dependence on the electric potential and position of the probe. Plasma Sources Science and Technology, 2010, 19, 025012.	3.1	9
17	A versatile applet to explore the wave behaviour of particles. European Journal of Physics, 2009, 30, 771-776.	0.6	1
18	Effect of Positive-Ion Temperature in the Sheaths Surrounding Cylindrical and Spherical Probes in Electronegative Plasmas. IEEE Transactions on Plasma Science, 2009, 37, 1715-1722.	1.3	3

#	Article	IF	Citations
19	Sheath analysis in collisional electronegative plasmas with finite temperature of positive ions. Journal Physics D: Applied Physics, 2008, 41, 235201.	2.8	16
20	A simple model of the positive ion sheath in front of a plane probe in weakly ionized electropositive plasmas. Journal of Applied Physics, 2008, 104, 083304.	2.5	4
21	Sheath structure in electronegative plasmas. Plasma Sources Science and Technology, 2007, 16, S76-S86.	3.1	40
22	Effect of collisions in the stratified presheath in electronegative plasmas. Applied Physics Letters, 2006, 88, 261502.	3.3	11
23	Influence of the positive ion temperature in cold plasma diagnosis. Applied Physics Letters, 2006, 89, 101501.	3.3	15
24	Floating potential and sheath thickness for cylindrical and spherical probes in electronegative plasmas. Journal of Applied Physics, 2006, 99, 053303.	2.5	17
25	Influence of the positive ion thermal motion on the stratified presheath for spherical and cylindrical Langmuir probes immersed in electronegative plasmas. Journal Physics D: Applied Physics, 2005, 38, 868-871.	2.8	19
26	Sheath structure in electronegative plasmas with finite positive ion temperature. Journal of Applied Physics, 2004, 95, 4585-4592.	2.5	34
27	Analytical fit of the I-V characteristic for cylindrical and spherical probes in electronegative plasmas. Journal of Applied Physics, 2004, 96, 4777-4783.	2.5	25
28	Analytical fit of the Iâ€“V probe characteristic for finite ion temperature values: Justification of the radial model applicability. Journal of Applied Physics, 2004, 95, 2982-2990.	2.5	26
29	LabView virtual instrument for automatic plasma diagnostic. Review of Scientific Instruments, 2004, 75, 90-93.	1.3	32
30	A Simplified Model Joining the Sheath and the Plasma in Electronegative Plasmas. European Physical Journal D, 2004, 54, 225-238.	0.4	5
31	Influence of the positive ion thermal motion on the stratified presheath in electronegative plasmas. Journal Physics D: Applied Physics, 2004, 37, 863-867.	2.8	27
32	Analytical fit of the Iâ€“V characteristic for cylindrical and spherical Langmuir probes. Journal of Applied Physics, 2003, 94, 4788.	2.5	22
33	Transition of the sheath structure in an electrostatic probe from electropositive to electronegative plasma. Journal of Applied Physics, 2002, 91, 2587-2593.	2.5	29
34	Theoretical ion current to cylindrical Langmuir probes for finite ion temperature values. Journal Physics D: Applied Physics, 1996, 29, 2832-2840.	2.8	31
35	Nonlinear theory of surface-waveâ€“particle interactions in a cylindrical plasma. Physical Review E, 1994, 50, 487-492.	2.1	1