Antonio Gamero

List of Publications by Year
in descending order

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54	1,433	279798	330143
papers	citations	23 h-index	37 g-index

54	54	54	840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental investigation and characterization of the departure from local thermodynamic equilibrium along a surfaceâ€waveâ€sustained discharge at atmospheric pressure. Journal of Applied Physics, 1996, 80, 46-55.	2.5	112
2	An easy way to determine simultaneously the electron density and temperature in high-pressure plasmas by using Stark broadening. Journal Physics D: Applied Physics, 2003, 36, L55-L59.	2.8	77
3	A Stark broadening method to determine simultaneously the electron temperature and density in high-pressure microwave plasmas. Journal Physics D: Applied Physics, 2007, 40, 5929-5936.	2.8	76
4	On the use of the line-to-continuum intensity ratio for determining the electron temperature in a high-pressure argon surface-microwave discharge. Journal Physics D: Applied Physics, 1995, 28, 1099-1110.	2.8	70
5	On the differences between ionizing helium and argon plasmas at atmospheric pressure. Plasma Sources Science and Technology, 2003, 12, 30-38.	3.1	69
6	The behavior of molecules in microwave-induced plasmas studied by optical emission spectroscopy. 1. Plasmas at atmospheric pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1998, 53, 1553-1566.	2.9	66
7	The role of molecular rare gas ions in plasmas operated at atmospheric pressure. Plasma Sources Science and Technology, 2003, 12, 464-474.	3.1	64
8	Spectroscopic study of a stationary surface-wave sustained argon plasma column at atmospheric pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1733-1745.	2.9	58
9	Using the van der Waals broadening of the spectral atomic lines to measure the gas temperature of an argon microwave plasma at atmospheric pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 169-176.	2.9	56
10	Stark broadening for simultaneous diagnostics of the electron density and temperature in atmospheric microwave discharges. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 58-68.	2.9	44
11	The behavior of molecules in microwave-induced plasmas studied by optical emission spectroscopy. 2: Plasmas at reduced pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 1085-1098.	2.9	43
12	Preliminary spectroscopic experiments with helium microwave induced plasma produced in air by use of a new structure: the axial injection torch. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1996, 51, 467-479.	2.9	42
13	Single-shot Thomson scattering on argon plasmas created by the Microwave Plasma Torch; evidence for a new plasma class. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1135-1146.	2.9	41
14	Atmospheric microwave-induced plasmas in Ar/H₂ mixtures studied with a combination of passive and active spectroscopic methods. Journal Physics D: Applied Physics, 2010, 43, 395202.	2.8	40
15	HÎ² Stark broadening in cold plasmas with low electron densities calibrated with Thomson scattering. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 73, 39-47.	2.9	39
16	Determination of bromide by low power surfatron microwave induced plasma after bromine continuous generation. Talanta, 1992, 39, 341-347.	5.5	37
17	Chemical generation of chlorine, bromine and iodine for sample introduction into a surfatron-generated argon microwave-induced plasma. Analytical Chemistry, 1992, 64, 1374-1378.	6.5	34
18	The electron density stabilisation process in pulsed surface wave plasmas. Journal Physics D: Applied Physics, 1988, 21, 1275-1281.	2.8	33

#	Article	IF	Citations
19	Thomson scattering on argon surfatron plasmas at intermediate pressures: Axial profiles of the electron temperature and electron density. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 225-233.	2.9	33
20	A novel method to determine the electron temperature and density from the absolute intensity of line and continuum emission: application to atmospheric microwave induced Ar plasmas. Journal Physics D: Applied Physics, 2009, 42, 155208.	2.8	32
21	Study of surface-wave-produced plasma column lengths. Journal Physics D: Applied Physics, 1987, 20, 1250-1258.	2.8	28
22	Excitation Kinetic in an Argon Plasma Column Produced by a Surface Wave at Atmospheric Pressure. Journal of the Physical Society of Japan, 1996, 65, 948-954.	1.6	27
23	Populations of excited atomic states along argon surface-wave plasma columns at low and intermediate pressures. Journal of Applied Physics, 2000, 87, 7652-7659.	2.5	24
24	An experimental study of the deviation from equilibrium in a high-pressure microwave helium plasma produced by an axial injection torch. Journal Physics D: Applied Physics, 1996, 29, 681-686.	2.8	22
25	Effective recombination coefficients in argon surface-wave-produced plasma. Journal Physics D: Applied Physics, 1988, 21, 1377-1383.	2.8	21
26	Electron temperature measurement in a surface-wave-produced argon plasma at intermediate pressures. European Physical Journal D, 2001, 14, 361-366.	1.3	21
27	Experimental study of the ionization front in pulsedâ€surfaceâ€waveâ€produced plasmas. Journal of Applied Physics, 1989, 65, 2199-2204.	2.5	19
28	How do numbers begin? (The first digit law). European Journal of Physics, 2007, 28, L17-L25.	0.6	19
29	Experimental investigation of the electron energy distribution function (EEDF) by Thomson scattering and optical emission spectroscopy. Journal Physics D: Applied Physics, 2012, 45, 475202.	2.8	19
30	Gas temperature determination in an argon non-thermal plasma at atmospheric pressure from broadenings of atomic emission lines. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 129, 14-20.	2.9	14
31	Empirical similarity laws for argon plasmas produced by a surface wave at 2.45 GHz. Journal Physics D: Applied Physics, 1988, 21, 1112-1116.	2.8	13
32	Experimental study of the creation of a surface-wave-sustained argon plasma column at atmospheric pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1727-1737.	2.9	13
33	An experimental study on the asymmetry and the dip form of the H line profiles in microwave produced plasmas at atmospheric pressure. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 939-947.	2.9	13
34	Electron production and loss processes in a spectrochemical inductively coupled argon plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 783-795.	2.9	12
35	Entrainment of ambient air into a spectrochemical inductively coupled argon plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 457-467.	2.9	11
36	Measuring the electron density in plasmas from the difference of Lorentzian part of the widths of two Balmer series hydrogen lines. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 107, 164-169.	2.9	11

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37	Reexamination of recent experimental results in surfaceâ€waveâ€produced argon plasmas at 2.45 GHz: Comparison with the diffusionâ€recombination model results. Journal of Applied Physics, 1988, 64, 3419-3423.	2.5	10
38	Thermal inequilibrium of atmospheric helium microwave plasma produced by an axial injection torch. Journal of Applied Physics, 2005, 98, 093304.	2.5	10
39	Spectroscopic study of a surface-wave-sustained argon plasma column at atmospheric pressure by means of a power interruption technique. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1611-1621.	2.9	8
40	The Stark-crossing method for the simultaneous determination of the electron temperature and density in plasmas. Journal of Physics: Conference Series, 2006, 44, 70-79.	0.4	8
41	Temperature diagnostics in a high-pressure hydrogen microwave plasma torch I: experimental characterization. Journal of Physics: Conference Series, 2006, 44, 179-184.	0.4	7
42	Temporal evolution of the electric field intensity in pulsed surface-wave-produced plasmas. Journal Physics D: Applied Physics, 1989, 22, 1482-1486.	2.8	6
43	Multiple diagnostics in a high-pressure hydrogen microwave plasma torch. Applied Physics Letters, 2010, 96, 051501.	3.3	5
44	SPECTROSCOPIC STUDY OF A HELIUM MICROWAVE DISCHARGE PRODUCED BY THE AXIAL INJECTION TORCH. High Temperature Material Processes, 2004, 8, 519-533.	0.6	5
45	Virtual instrument for the diagnosis of surface wave discharges. Review of Scientific Instruments, 2006, 77, 103503.	1.3	4
46	Excitation Equilibria in an Argon Surface-Wave-Produced and -Sustained Plasmas. Japanese Journal of Applied Physics, 2002, 41, 5659-5667.	1.5	3
47	Characterization of a high-pressure hydrogen microwave plasma torch using the method of dBR. Journal of Physics: Conference Series, 2006, 44, 185-190.	0.4	3
48	Using the Pairs of Lines Broadened by Collisions with Neutral and Charged Particles for Gas Temperature Determination of Argon Non-Thermal Plasmas at Atmospheric Pressure. Atoms, 2017, 5, 41.	1.6	3
49	Spectroscopic diagnostics of high pressure discharges. European Physical Journal Special Topics, 1998, 08, Pr7-339-Pr7-348.	0.2	2
50	Phase diagrams and radial distribution of the electric field components of coaxial discharges with outer dielectric tube at different wave modes. Journal of Physics: Conference Series, 2007, 63, 012024.	0.4	2
51	Experimental characterization of the HÎ²-line profiles in microwave-produced plasmas at atmospheric pressure. Journal of Physics: Conference Series, 2010, 207, 012013.	0.4	2
52	Preliminary spectroscopic measurements on a low-pressure argon, 2.45ÂGHz microwave-fed QL-lamp. Journal Physics D: Applied Physics, 2004, 37, 1228-1233.	2.8	1
53	ENTRAINMENT OF AMBIENT AIR INTO AN ARGON ICP. High Temperature Material Processes, 2003, 7, 83-91.	0.6	1
54	Microwave discharges used as excitation sources for spectro-chemical analysis. AIP Conference Proceedings, 1996, , .	0.4	0