

Maria Garcia

List of Publications by Year in descending order

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39
papers

937
citations

471509

17
h-index

454955

30
g-index

39
all docs

39
docs citations

39
times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave atmospheric pressure plasma jets for wastewater treatment: Degradation of methylene blue as a model dye. <i>Chemosphere</i> , 2017, 180, 239-246.	8.2	116
2	Clinical and Biological Principles of Cold Atmospheric Plasma Application in Skin Cancer. <i>Advances in Therapy</i> , 2016, 33, 894-909.	2.9	107
3	Spectroscopic study of a stationary surface-wave sustained argon plasma column at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1733-1745.	2.9	58
4	Using the van der Waals broadening of the spectral atomic lines to measure the gas temperature of an argon microwave plasma at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 169-176.	2.9	56
5	Determination of the Excitation Temperature in a Nonthermodynamic-Equilibrium High-Pressure Helium Microwave Plasma Torch. <i>Applied Spectroscopy</i> , 1997, 51, 778-784.	2.2	55
6	Using the Stark Broadening of the $H\text{I}^{\pm}$, $H\text{I}^2$ and $H\text{I}^3$ Lines for the Measurement of Electron Density and Temperature in a Plasma at Atmospheric Pressure. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2249-2254.	1.6	52
7	Characterization and study of the thermodynamic equilibrium departure of an argon plasma flame produced by a surface-wave sustained discharge. <i>Journal of Applied Physics</i> , 2000, 88, 34-39.	2.5	42
8	On the use of the $H\text{I}^{\pm}$ spectral line to determine the electron density in a microwave (2.45GHz) plasma torch at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 540-544.	2.9	40
9	Role of dissociative recombination in the excitation kinetics of an argon microwave plasma at atmospheric pressure. <i>Journal of Applied Physics</i> , 2005, 97, 113305.	2.5	34
10	Influence of the thermodynamic equilibrium state in the excitation of samples by a plasma at atmospheric pressure. <i>Journal of Applied Physics</i> , 2002, 92, 2269-2275.	2.5	32
11	Transformation of light paraffins in a microwave-induced plasma-based reactor at reduced pressure. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4111-4122.	7.1	27
12	Self-organization in 1 atm DC glows with liquid anodes: current understanding and potential applications. <i>Plasma Sources Science and Technology</i> , 2020, 29, 034004.	3.1	25
13	Optical Emission Spectroscopy Investigation of a 1-atm DC Glow Discharge With Liquid Anode and Associated Self-Organization Patterns. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3214-3227.	1.3	24
14	An investigation of an underwater steam plasma discharge as alternative to air plasmas for water purification. <i>Plasma Sources Science and Technology</i> , 2015, 24, 055005.	3.1	23
15	An experimental study of the deviation from equilibrium in a high-pressure microwave helium plasma produced by an axial injection torch. <i>Journal Physics D: Applied Physics</i> , 1996, 29, 681-686.	2.8	22
16	Excitation of Species in an Expanded Argon Microwave Plasma at Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 241-255.	2.4	22
17	Gas temperature determination of non-thermal atmospheric plasmas from the collisional broadening of argon atomic emission lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 93-103.	2.3	19
18	Spectroscopic characterization of a neon surface-wave sustained (2.45GHz) discharge at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 948-956.	2.9	15

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19	Gas temperature determination in microwave discharges at atmospheric pressure by using different Optical Emission Spectroscopy techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 90, 61-67.	2.9	14
20	Gas temperature determination in an argon non-thermal plasma at atmospheric pressure from broadenings of atomic emission lines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 14-20.	2.9	14
21	The variation in self-organized anode plasma pattern structure with solution electrolyte type in 1 atm DC glow discharge. <i>Plasma Sources Science and Technology</i> , 2021, 30, 015007.	3.1	14
22	Experimental study of the creation of a surface-wave-sustained argon plasma column at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1727-1737.	2.9	13
23	Understanding the plasma and power characteristics of a self-generated steam bubble discharge. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 355203.	2.8	13
24	Measuring the electron density in plasmas from the difference of Lorentzian part of the widths of two Balmer series hydrogen lines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 107, 164-169.	2.9	11
25	Application of LIBS technology for determination of Cl concentrations in mortar samples. <i>Construction and Building Materials</i> , 2019, 204, 716-726.	7.2	10
26	Self-absorbing method to measure the population of the metastable levels in an argon microwave plasma at atmospheric pressure. <i>EPJ Applied Physics</i> , 2004, 28, 325-330.	0.7	9
27	Selectivity Control in a Microwave Surface-Wave Plasma Reactor for Hydrocarbon Conversion. <i>Plasma Processes and Polymers</i> , 2011, 8, 709-717.	3.0	9
28	Spectroscopic study of a surface-wave-sustained argon plasma column at atmospheric pressure by means of a power interruption technique. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1611-1621.	2.9	8
29	Study of the plasma-liquid interaction for an argon nonthermal microwave plasma jet from the analysis of benzene degradation. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000030.	3.0	8
30	Tutorial and Simulation Electrooptic and Acoustooptic Software as Innovative Methodology to Improve the Quality of Electronic and Computer Engineering Formation. <i>IEEE Transactions on Education</i> , 2006, 49, 302-308.	2.4	7
31	Characterization of an Air-Based Coaxial Dielectric Barrier Discharge Plasma Source for Biofilm Eradication. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 535-556.	2.4	7
32	Promise of nonthermal plasmas in addressing emerging environmental and health problems: Present and future. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
33	Virtual web sound laboratories as an educational tool in physics teaching in engineering. <i>Computer Applications in Engineering Education</i> , 2011, 19, 759-769.	3.4	6
34	Experimental Method for Determining the Damping Parameter of Spectral Lines Emitted by a Microwave Plasma at Atmospheric Pressure. <i>Applied Spectroscopy</i> , 2005, 59, 1457-1464.	2.2	5
35	Measuring the air fraction and the gas temperature in non-thermal argon plasma jets through the study of the air influence on the collisional broadening of some argon atomic emission lines. <i>Plasma Sources Science and Technology</i> , 2020, 29, 055006.	3.1	5
36	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. <i>Atoms</i> , 2017, 5, 41.	1.6	3

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37	Preparation of graphene-based nanomaterials by pulsed RF discharges on liquid organic compounds. Journal Physics D: Applied Physics, 2020, 53, 435202.	2.8	3
38	Gas temperature and air fraction diagnosis of helium cold atmospheric plasmas by means of atomic emission lines. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 193, 106437.	2.9	2
39	Overview of Experimental Studies of Plasma in Liquid Water at the University of Michigan and Progress towards a Practical Plasma Water Reactor. , 2017, , .		0