

# 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

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39  
docs citations

39  
times ranked

861  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Gas temperature and air fraction diagnosis of helium cold atmospheric plasmas by means of atomic emission lines. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 193, 106437.  | 2.9 | 2         |
| 2  | Promise of nonthermal plasmas in addressing emerging environmental and health problems: Present and future. <i>Physics of Plasmas</i> , 2022, 29, .  | 1.9 | 7         |
| 3  | 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        |
| 4  | 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         |
| 5  | Preparation of graphene-based nanomaterials by pulsed RF discharges on liquid organic compounds. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 435202.   | 2.8 | 3         |
| 6  | 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        |
| 7  | 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         |
| 8  | 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        |
| 9  | 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        |
| 10 | 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         |
| 11 | 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        |
| 12 | 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        |
| 13 | 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       |
| 14 | Overview of Experimental Studies of Plasma in Liquid Water at the University of Michigan and Progress towards a Practical Plasma Water Reactor. , 2017, , .  |     | 0         |
| 15 | 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         |
| 16 | Clinical and Biological Principles of Cold Atmospheric Plasma Application in Skin Cancer. <i>Advances in Therapy</i> , 2016, 33, 894-909.  | 2.9 | 107       |
| 17 | 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        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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         |
| 22 | 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         |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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         |
| 29 | 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        |
| 30 | 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         |
| 31 | 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        |
| 32 | 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         |
| 33 | 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        |
| 34 | 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        |
| 35 | 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         |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | 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        |
| 39 | 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        |