

# Antonio Rodero

## List of Publications by Year in descending order

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44  
papers

972  
citations

516710

16  
h-index

454955

30  
g-index

44  
all docs

44  
docs citations

44  
times ranked

848  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Abel inversion method for radially resolved measurements in the axial injection torch. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1665-1680.	2.9	124
2	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
3	The behavior of molecules in microwave-induced plasmas studied by optical emission spectroscopy. 1. Plasmas at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998, 53, 1553-1566.	2.9	66
4	The role of molecular rare gas ions in plasmas operated at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2003, 12, 464-474.	3.1	64
5	CO <sub>2</sub> concentration in naturally ventilated classrooms located in different climates—Measurements and simulations. <i>Energy and Buildings</i> , 2016, 129, 491-498.	6.7	59
6	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
7	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
8	The behavior of molecules in microwave-induced plasmas studied by optical emission spectroscopy. 2: Plasmas at reduced pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 1085-1098.	2.9	43
9	Preliminary spectroscopic experiments with helium microwave induced plasma produced in air by use of a new structure: the axial injection torch. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996, 51, 467-479.	2.9	42
10	Disposal Behavior of Used Masks during the COVID-19 Pandemic in the Moroccan Community: Potential Environmental Impact. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4382.	2.6	39
11	Excitation Kinetic in an Argon Plasma Column Produced by a Surface Wave at Atmospheric Pressure. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 948-954.	1.6	27
12	Radial distribution of electron density, gas temperature and air species in a torch kind helium plasma produced at atmospheric pressure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 709-721.	2.9	23
13	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
14	Radial description of excitation processes of molecular and atomic species in a high-pressure helium microwave plasma torch. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3768-3777.	2.8	22
15	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
16	The analysis of microclimate parameters in the classrooms located in different climate zones. <i>Applied Thermal Engineering</i> , 2017, 113, 1088-1096.	6.0	18
17	Assessment of a new carbon tetrachloride destruction system based on a microwave plasma torch operating at atmospheric pressure. <i>Journal of Hazardous Materials</i> , 2007, 148, 419-427.	12.4	16
18	Application of microwave air plasma in the destruction of trichloroethylene and carbon tetrachloride at atmospheric pressure. <i>Journal of Hazardous Materials</i> , 2011, 186, 820-826.	12.4	15

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19	Determination of Physicochemical Water Quality of the Ghis-Nekor Aquifer (Al Hoceima, Morocco) Using Hydrochemistry, Multiple Isotopic Tracers, and the Geographical Information System (GIS). Water (Switzerland), 2022, 14, 606.	2.7	14
20	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
21	Efficiency of a solar collector system for the public building depending on its location. Environmental Science and Pollution Research, 2020, 27, 101-110.	5.3	12
22	Application of a Microwave Helium Plasma Torch Operating at Atmospheric Pressure to Destroy Trichloroethylene. Plasma Chemistry and Plasma Processing, 2008, 28, 415-428.	2.4	11
23	Thermal inequilibrium of atmospheric helium microwave plasma produced by an axial injection torch. Journal of Applied Physics, 2005, 98, 093304.	2.5	10
24	Modeling of an axial injection torch. EPJ Applied Physics, 2009, 46, 21001.	0.7	10
25	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
26	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
27	Study of the plasma-liquid interaction for an argon nonthermal microwave plasma jet from the analysis of benzene degradation. Plasma Processes and Polymers, 2020, 17, 2000030.	3.0	8
28	Characterization of an Air-Based Coaxial Dielectric Barrier Discharge Plasma Source for Biofilm Eradication. Plasma Chemistry and Plasma Processing, 2018, 38, 535-556.	2.4	7
29	Carbon Dioxide Decomposition by a Parallel-Plate Plasma Reactor: Experiments and 2-D Modelling. Applied Sciences (Switzerland), 2021, 11, 10047.	2.5	7
30	Carbon Dioxide Human Gains—A New Approach of the Estimation. Sustainability, 2019, 11, 7128.	3.2	6
31	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. Plasma Sources Science and Technology, 2020, 29, 055006.	3.1	5
32	Analysis of the Applicability of the Parabolic Trough Solar Thermal Power Plants in the Locations with a Temperate Climate. Energies, 2021, 14, 3003.	3.1	5
33	SPECTROSCOPIC STUDY OF A HELIUM MICROWAVE DISCHARGE PRODUCED BY THE AXIAL INJECTION TORCH. High Temperature Material Processes, 2004, 8, 519-533.	0.6	5
34	Analysis of the Solar Collectors Installation on a Roof of the Small Public Building in Poland, Lithuania and Spain—A Case Study. Proceedings (mdpi), 2018, 2, .	0.2	4
35	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
36	The effect of the gas flow-rate on the radial structure of a torch-like helium plasma. IEEE Transactions on Plasma Science, 2005, 33, 422-423.	1.3	2

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37	Method for Estimation of CO <sub>2</sub> Gains from Persons in Buildings. Proceedings (mdpi), 2018, 2, 1309.	0.2	2
38	Experimental Study of a Rotating Electrode Plasma Reactor for Hydrogen Production from Liquid Petroleum Gas Conversion. Applied Sciences (Switzerland), 2022, 12, 4045.	2.5	2
39	The Advisability of Employment of Renewable Energy Sources in DHW Systems in the Kindergarten. Proceedings (mdpi), 2019, 16, 41.	0.2	1
40	The Study of Soil Temperature Distribution for Very Low-Temperature Geothermal Energy Applications in Selected Locations of Temperate and Subtropical Climate. Energies, 2022, 15, 3345.	3.1	1
41	Distribution of Excited Species in a Helium Plasma Flame During the Destruction of Carbon Tetrachloride at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2008, 36, 984-985.	1.3	0
42	Preface: Proceedings of the 8th International Conference ISMOâ€™19â€™Innovations-Sustainability-Modernity-Openness. Proceedings (mdpi), 2019, 16, .	0.2	0
43	Preliminary Study on the Treatment of Benzene Contaminated Water using an Argon Microwave Plasma Jet. IOP Conference Series: Materials Science and Engineering, 2020, 809, 012019.	0.6	0
44	TIME-DEPENDENT PLASMA PROPERTIES STUDIED WITH A 2-D THOMSON SCATTERING SYSTEM. High Temperature Material Processes, 2002, 6, 14.	0.6	0