

# Maria Victoria Lapuerta Gonzalez

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

355  
citations

933264

10  
h-index

794469

19  
g-index

29  
all docs

29  
docs citations

29  
times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Project Based Learning experiences in the space engineering education at Technical University of Madrid. <i>Advances in Space Research</i> , 2015, 56, 1319-1330.	1.2	51
2	Experimental evidence of thermocapillarity in phase change materials in microgravity: Measuring the effect of Marangoni convection in solid/liquid phase transitions. <i>International Communications in Heat and Mass Transfer</i> , 2020, 113, 104529.	2.9	47
3	The Thermocapillary Effects in Phase Change Materials in Microgravity experiment: Design, preparation and execution of a parabolic flight experiment. <i>Acta Astronautica</i> , 2019, 162, 185-196.	1.7	44
4	Motivational impact of active learning methods in aerospace engineering students. <i>Acta Astronautica</i> , 2019, 165, 344-354.	1.7	33
5	Thermocapillary effects during the melting in microgravity of phase change materials with a liquid bridge geometry. <i>International Journal of Heat and Mass Transfer</i> , 2021, 178, 121586.	2.5	32
6	Control of Rayleigh-Taylor instability by vertical vibration in large aspect ratio containers. <i>Physical Review E</i> , 2001, 64, 016318.	0.8	30
7	Fuzzy attitude control for a nanosatellite in low Earth orbit. <i>Expert Systems With Applications</i> , 2016, 58, 102-118.	4.4	25
8	Challenge-Based Learning in Aerospace Engineering Education: The ESA Concurrent Engineering Challenge at the Technical University of Madrid. <i>Acta Astronautica</i> , 2020, 171, 369-377.	1.7	16
9	General parametric analysis of the linear two-stream instability. <i>Physics of Plasmas</i> , 2002, 9, 1513-1519.	0.7	15
10	Weakly dissipative Faraday waves in 2D large aspect ratio annuli. <i>Physica D: Nonlinear Phenomena</i> , 2002, 173, 178-203.	1.3	11
11	Dynamic model of a plasma structure with an intermediate double-layer, formed outside an anodic plasma contactor. <i>Physics of Plasmas</i> , 2000, 7, 2693-2703.	0.7	7
12	Multistream instabilities in three-species plasmas formed around strong double layers. <i>Physics of Plasmas</i> , 2002, 9, 3236-3244.	0.7	7
13	Components of a Wind Tunnel Balance: Design and Calibration. , 0, , .		7
14	Comparison of collisionless macroscopic models and application to the ionâ€“electron instability. <i>Physics of Plasmas</i> , 2001, 8, 3873-3878.	0.7	5
15	Parameterized fuzzy-logic controllers for the attitude control of nanosatellites in low earth orbits. A comparative studio with PID controllers. <i>Expert Systems With Applications</i> , 2021, 174, 114679.	4.4	5
16	Global error analysis of two-dimensional panel methods for dirichlet formulation. <i>Engineering Analysis With Boundary Elements</i> , 2017, 74, 88-99.	2.0	4
17	Weakly threeâ€“dimensional model of spherical contactors in unmagnetized plasmas. <i>Physics of Plasmas</i> , 1995, 2, 3252-3260.	0.7	3
18	Stability of liquid bridges subject to an eccentric rotation. <i>Advances in Space Research</i> , 2008, 41, 2137-2144.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Panel method for mixed configurations with finite thickness and zero thickness. Engineering Analysis With Boundary Elements, 2014, 44, 28-35.	2.0	3
20	Sail optimization for upwind sailing: application in a Tornado, the Olympic class catamaran. Journal of Marine Science and Technology, 2008, 13, 190-206.	1.3	2
21	Experimental and numerical analysis of non-symmetric breakage of liquid columns in an axial gravitational field rotating around an eccentric axis. Advances in Space Research, 2014, 53, 63-70.	1.2	2
22	Results and Experiences from the Execution of the GeoFlow Experiments on the ISS. Microgravity Science and Technology, 2015, 27, 61-74.	0.7	2
23	Global error analysis of two-dimensional panel methods for Neumann formulation. Engineering Analysis With Boundary Elements, 2018, 95, 40-52.	2.0	1
24	Weakly-nonlinear analysis of the Rayleigh-Taylor instability in a vertically vibrated, large aspect ratio container. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 3515-3520.	0.6	0
25	The electron-electron instability in a spherical plasma structure with an intermediate double layer. Physics of Plasmas, 2003, 10, 1351-1363.	0.7	0
26	Thebas experiment during the spanish soyuz mission cervantes. Microgravity Science and Technology, 2007, 19, 249-252.	0.7	0
27	Apis experiment during the spanish soyuz mission cervantes. Microgravity Science and Technology, 2007, 19, 253-259.	0.7	0
28	ULISSE Access to Data. , 2011, , 171-206.		0
29	Effect of the Delay in Fuzzy Attitude Control for Nanosatellites. Advances in Intelligent Systems and Computing, 2020, , 966-981.	0.5	0