Pablo Fajardo

List of Publications by Year
in descending order

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39 papers	593 citations	623734 14 h-index	642732 23 g-index
40 all docs	40 docs citations	40 times ranked	402 citing authors

#	Article	IF	Citations
1	Hybrid plasma simulations of a magnetically shielded Hall thruster. Journal of Applied Physics, 2022, 131, .	2.5	14
2	Magnetized fluid electron model within a two-dimensional hybrid simulation code for electrodeless plasma thrusters. Plasma Sources Science and Technology, 2022, 31, 045021.	3.1	9
3	Experimental Assessment of RANS Models for Wind Load Estimation over Solar-Panel Arrays. Applied Sciences (Switzerland), 2021, 11, 2496.	2.5	3
4	Three-dimensional neutralizer effects on a Hall-effect thruster near plume. Acta Astronautica, 2021, 187, 498-510.	3.2	11
5	Mechanically Amplified Milli-Newton Thrust Balance for Direct Thrust Measurements of Electric Thrusters for Space Propulsion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-18.	4.7	6
6	Macroscopic plasma analysis from 1D-radial kinetic results of a Hall thruster discharge. Plasma Sources Science and Technology, 2021, 30, 115011.	3.1	7
7	Effect of the horizontal aspect ratio on thermocapillary convection stability in annular pool with surface heat dissipation. International Journal of Heat and Mass Transfer, 2020, 148, 119140.	4.8	6
8	Collisionless electron cooling in a plasma thruster plume: experimental validation of a kinetic model. Plasma Sources Science and Technology, 2020, 29, 035029.	3.1	6
9	Sidewall effects on heat transfer in narrow backward facing step in transitional regime. Numerical Heat Transfer; Part A: Applications, 2019, 76, 628-647.	2.1	0
10	Numerical treatment of a magnetized electron fluid model within an electromagnetic plasma thruster simulation code. Plasma Sources Science and Technology, 2019, 28, 115004.	3.1	20
11	Parametric study of the radial plasma-wall interaction in a Hall thruster. Journal Physics D: Applied Physics, 2019, 52, 474003.	2.8	11
12	Helicon and ECR plasma sources for space propulsion: simulation and testing. , 2019, , .		0
13	Experimental characterization of a 1ÂkW Helicon Plasma Thruster. Vacuum, 2018, 149, 69-73.	3.5	34
14	Axisymmetric plasma plume characterization with 2D and 3D particle codes. Plasma Sources Science and Technology, 2018, 27, 104009.	3.1	23
15	Influence of flow tree-dimensionality on the heat transfer of a narrow channel backward facing step flows. International Journal of Thermal Sciences, 2018, 132, 234-248.	4.9	2
16	On the onset of instabilities in a BÃ©nard-Marangoni problem in an annular domain with temperature gradient. Thermal Science, 2017, 21, 585-596.	1.1	1
17	Analysis of the Numerical Diffusion in Anisotropic Mediums: Benchmarks for Magnetic Field Aligned Meshes in Space Propulsion Simulations. Applied Sciences (Switzerland), 2016, 6, 354.	2.5	11
18	Collisionless electron cooling in unmagnetized plasma thruster plumes. , 2016, , .		1

#	Article	IF	Citations
19	Influence of geometrical parameters on the linear stability of a BÃ©nard-Marangoni problem. Physical Review E, 2016, 93, 043105.	2.1	12
20	Assessment of secondary bubble formation on a backward-facing step geometry. Physics of Fluids, 2016, 28, .	4.0	7
21	Assessment of experimental optical techniques for characterizing heat transfer using numerical simulations. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 84-98.	3.1	3
22	Analysis of bifurcations in a BÃ©nardâ€“Marangoni problem: Gravitational effects. International Journal of Heat and Mass Transfer, 2014, 73, 33-41.	4.8	20
23	Development and validation of a radial variable geometry turbine model for transient pulsating flow applications. Energy Conversion and Management, 2014, 85, 190-203.	9.2	36
24	Codimension-three bifurcations in a BÃ©nard-Marangoni problem. Physical Review E, 2013, 88, 015001.	2.1	10
25	Analysis of the influence of different real flow effects on computational fluid dynamics boundary conditions based on the method of characteristics. Mathematical and Computer Modelling, 2013, 57, 1957-1964.	2.0	7
26	Characterization of a radial turbocharger turbine in pulsating flow by means of CFD and its application to engine modeling. Applied Energy, 2013, 103, 116-127.	10.1	109
27	Set-Up Analysis and Optimization of CFD Simulations for Radial Turbines. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 441-460.	3.1	28
28	Contribution to the Modeling and Understanding of Cold Pulsating Flow Influence in the Efficiency of Small Radial Turbines for Turbochargers. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	10
29	Development of Non-Reflecting Boundary Condition for Application in 3D Computational Fluid Dynamics Codes. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 447-460.	3.1	23
30	Contribution to the Understanding of Cold Pulsating Flow Influence in the Efficiency of Small Radial Turbines for Turbochargers. , 2012, , .		1
31	A physically based methodology to extrapolate performance maps of radial turbines. Energy Conversion and Management, 2012, 55, 149-163.	9.2	56
32	Turbine adapted maps for turbocharger engine matching. Experimental Thermal and Fluid Science, 2011, 35, 146-153.	2.7	39
33	Coupling methodology of 1D finite difference and 3D finite volume CFD codes based on the Method of Characteristics. Mathematical and Computer Modelling, 2011, 54, 1738-1746.	2.0	25
34	CFD Study of Needle Motion Influence on the Spray Conditions of Single-Hole Injectors. Atomization and Sprays, 2011, 21, 31-40.	0.8	19
35	A moving mesh generation strategy for solving an injector internal flow problem. Mathematical and Computer Modelling, 2010, 52, 1143-1150.	2.0	18
36	Some Results of the Educational Experiment APIS (Cervantes Mission on Board ISS). Microgravity Science and Technology, 2009, 21, 247-255.	1.4	0

#	Article	IF	Citations
37	On heavy particle-wall interaction in axisymmetric plasma discharges. Plasma Sources Science and Technology, 0, , .	3.1	4
38	Recursive Computation of Complex Frequencies of Vibrating Non-Viscous Damped Systems. , 0, , .		0
39	The Complete Set of Thermo-mechanical-Radiation Methods, Simulations and Results for a Swarm of Nanorovers Deployed on the Moonâ€™s Surface (Lunar Zebro Mission). Advances in Astronautics Science and Technology, 0, , .	0.8	0