

Pablo Fajardo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2649180/publications.pdf>

Version: 2024-02-01

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	Characterization of a radial turbocharger turbine in pulsating flow by means of CFD and its application to engine modeling. <i>Applied Energy</i> , 2013, 103, 116-127.	10.1	109
2	A physically based methodology to extrapolate performance maps of radial turbines. <i>Energy Conversion and Management</i> , 2012, 55, 149-163.	9.2	56
3	Turbine adapted maps for turbocharger engine matching. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 146-153.	2.7	39
4	Development and validation of a radial variable geometry turbine model for transient pulsating flow applications. <i>Energy Conversion and Management</i> , 2014, 85, 190-203.	9.2	36
5	Experimental characterization of a 1kW Helicon Plasma Thruster. <i>Vacuum</i> , 2018, 149, 69-73.	3.5	34
6	Set-Up Analysis and Optimization of CFD Simulations for Radial Turbines. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2013, 7, 441-460.	3.1	28
7	Coupling methodology of 1D finite difference and 3D finite volume CFD codes based on the Method of Characteristics. <i>Mathematical and Computer Modelling</i> , 2011, 54, 1738-1746.	2.0	25
8	Development of Non-Reflecting Boundary Condition for Application in 3D Computational Fluid Dynamics Codes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012, 6, 447-460.	3.1	23
9	Axissymmetric plasma plume characterization with 2D and 3D particle codes. <i>Plasma Sources Science and Technology</i> , 2018, 27, 104009.	3.1	23
10	Analysis of bifurcations in a Bård-Marangoni problem: Gravitational effects. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 33-41.	4.8	20
11	Numerical treatment of a magnetized electron fluid model within an electromagnetic plasma thruster simulation code. <i>Plasma Sources Science and Technology</i> , 2019, 28, 115004.	3.1	20
12	CFD Study of Needle Motion Influence on the Spray Conditions of Single-Hole Injectors. <i>Atomization and Sprays</i> , 2011, 21, 31-40.	0.8	19
13	A moving mesh generation strategy for solving an injector internal flow problem. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1143-1150.	2.0	18
14	Hybrid plasma simulations of a magnetically shielded Hall thruster. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	14
15	Influence of geometrical parameters on the linear stability of a Bård-Marangoni problem. <i>Physical Review E</i> , 2016, 93, 043105.	2.1	12
16	Analysis of the Numerical Diffusion in Anisotropic Mediums: Benchmarks for Magnetic Field Aligned Meshes in Space Propulsion Simulations. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 354.	2.5	11
17	Parametric study of the radial plasma-wall interaction in a Hall thruster. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 474003.	2.8	11
18	Three-dimensional neutralizer effects on a Hall-effect thruster near plume. <i>Acta Astronautica</i> , 2021, 187, 498-510.	3.2	11

#	ARTICLE	IF	CITATIONS
19	Contribution to the Modeling and Understanding of Cold Pulsating Flow Influence in the Efficiency of Small Radial Turbines for Turbochargers. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	1.1	10
20	Codimension-three bifurcations in a BÄ©nard-Marangoni problem. <i>Physical Review E</i> , 2013, 88, 015001.	2.1	10
21	Magnetized fluid electron model within a two-dimensional hybrid simulation code for electrodeless plasma thrusters. <i>Plasma Sources Science and Technology</i> , 2022, 31, 045021.	3.1	9
22	Analysis of the influence of different real flow effects on computational fluid dynamics boundary conditions based on the method of characteristics. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1957-1964.	2.0	7
23	Assessment of secondary bubble formation on a backward-facing step geometry. <i>Physics of Fluids</i> , 2016, 28, .	4.0	7
24	Macroscopic plasma analysis from 1D-radial kinetic results of a Hall thruster discharge. <i>Plasma Sources Science and Technology</i> , 2021, 30, 115011.	3.1	7
25	Effect of the horizontal aspect ratio on thermocapillary convection stability in annular pool with surface heat dissipation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119140.	4.8	6
26	Collisionless electron cooling in a plasma thruster plume: experimental validation of a kinetic model. <i>Plasma Sources Science and Technology</i> , 2020, 29, 035029.	3.1	6
27	Mechanically Amplified Milli-Newton Thrust Balance for Direct Thrust Measurements of Electric Thrusters for Space Propulsion. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-18.	4.7	6
28	On heavy particle-wall interaction in axisymmetric plasma discharges. <i>Plasma Sources Science and Technology</i> , 0, , .	3.1	4
29	Assessment of experimental optical techniques for characterizing heat transfer using numerical simulations. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 84-98.	3.1	3
30	Experimental Assessment of RANS Models for Wind Load Estimation over Solar-Panel Arrays. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2496.	2.5	3
31	Influence of flow tree-dimensionality on the heat transfer of a narrow channel backward facing step flows. <i>International Journal of Thermal Sciences</i> , 2018, 132, 234-248.	4.9	2
32	Contribution to the Understanding of Cold Pulsating Flow Influence in the Efficiency of Small Radial Turbines for Turbochargers. , 2012, , .		1
33	Collisionless electron cooling in unmagnetized plasma thruster plumes. , 2016, , .		1
34	On the onset of instabilities in a BÄ©nard-Marangoni problem in an annular domain with temperature gradient. <i>Thermal Science</i> , 2017, 21, 585-596.	1.1	1
35	Some Results of the Educational Experiment APIS (Cervantes Mission on Board ISS). <i>Microgravity Science and Technology</i> , 2009, 21, 247-255.	1.4	0
36	Sidewall effects on heat transfer in narrow backward facing step in transitional regime. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 76, 628-647.	2.1	0

#	ARTICLE	IF	CITATIONS
37	Helicon and ECR plasma sources for space propulsion: simulation and testing. , 2019, , .		0
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 Moon's Surface (Lunar Zebro Mission). Advances in Astronautics Science and Technology, 0, , .	0.8	0