Antonio Viviani

List of Publications by Year
in descending order

17	115	1684188 5	1372567 10
papers	citations	h-index	g-index

17	17	17	51
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-objective optimization for re-entry spacecraft conceptual design using a free-form shape generator. Aerospace Science and Technology, 2017, 71, 312-324.	4.8	32
2	An optimization-based procedure for self-generation of Re-entry Vehicles shape. Aerospace Science and Technology, 2017, 68, 123-134.	4.8	19
3	Aeroshape design of reusable re-entry vehicles by multidisciplinary optimization and computational fluid dynamics. Aerospace Science and Technology, 2020, 105, 106029.	4.8	18
4	Thermal Protection System Design of a Reusable Launch Vehicle Using Integral Soft Objects. International Journal of Aerospace Engineering, 2019, 2019, 1-14.	0.9	10
5	Phase-A design of a reusable re-entry vehicle. Acta Astronautica, 2021, 187, 141-155.	3.2	10
6	Aerodynamic Analysis of a Capsule Vehicle for a Manned Exploration Mission to Mars. , 2009, , .		9
7	Low speed longitudinal aerodynamics of a blended wing-body re-entry vehicle. Aerospace Science and Technology, 2020, 107, 106303.	4.8	8
8	The influence of the gravity force on instabilities of the floating droplet. International Journal of Non-Linear Mechanics, 2022, 138, 103857.	2.6	4
9	An optimal heat-flux targeting procedure for LEO re-entry of reusable vehicles. Aerospace Science and Technology, 2021, 112, 106608.	4.8	2
10	Nonlinear convective flows in a two-layer system under the action of spatial temperature modulation of heat release/consumption at the interface. Acta Astronautica, 2018, 147, 297-315.	3.2	1
11	Nonlinear dynamics of a two-layer system under the action of spatial temperature modulation of an interfacial heat release. European Journal of Mechanics, B/Fluids, 2019, 78, 11-20.	2.5	1
12	Low Speed Aerodynamic Analysis of the N2A Hybrid Wingâ€“Body. Aerospace, 2022, 9, 89.	2.2	1
13	Parametric Integral Soft Objects-based Procedure for Thermal Protection System Modeling of Reusable Launch Vehicle. , 0, , .		0
14	Introductory Chapter: Hypersonic Vehicles - Past, Present, and Future Insights. , 2019, , .		0
15	Measure method of effective diffusion in gas oscillating in channels of variable radius or porous medium. MethodsX, 2021, 8, 101552.	1.6	0
16	Free Topology Generation of Thermal Protection System for Reusable Space Vehicles Using Integral Soft Objects. Lecture Notes in Mechanical Engineering, 2020, , 84-98.	0.4	0
17	Lifting Entry Analysis for Manned Mars Exploration Missions. , 0, , .		0