

Guido Colasurdo

List of Publications by Year in descending order

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60
papers

691
citations

840776

11
h-index

642732

23
g-index

61
all docs

61
docs citations

61
times ranked

205
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Low-Thrust Escape Trajectories Using Gravity Assist. Journal of Guidance, Control, and Dynamics, 1999, 22, 637-642.	2.8	134
2	Indirect optimization method for impulsive transfers. , 1994, , .		70
3	Optimization Procedure for Preliminary Design of Opposition-Class Mars Missions. Journal of Guidance, Control, and Dynamics, 1998, 21, 134-140.	2.8	43
4	Unsteady compressible flow - A computational method consistent with the physical phenomena. AIAA Journal, 1981, 19, 852-856.	2.6	36
5	Optimization of Variable-Specific-Impulse Interplanetary Trajectories. Journal of Guidance, Control, and Dynamics, 2004, 27, 678-684.	2.8	34
6	Convex Approach to Three-Dimensional Launch Vehicle Ascent Trajectory Optimization. Journal of Guidance, Control, and Dynamics, 2021, 44, 1116-1131.	2.8	32
7	Simple Strategy for Powered Swingby. Journal of Guidance, Control, and Dynamics, 1999, 22, 156-159.	2.8	30
8	Improved Edelbaum's Approach to Optimize Low Earth/Geostationary Orbits Low-Thrust Transfers. Journal of Guidance, Control, and Dynamics, 2007, 30, 1504-1511.	2.8	30
9	Optimization of γ Earth-Gravity-Assist Trajectories. Journal of Guidance, Control, and Dynamics, 1998, 21, 991-995.	2.8	27
10	Tour of Jupiter Galilean moons: Winning solution of GTOC6. Acta Astronautica, 2014, 102, 190-199.	3.2	26
11	Optimal Control Law for Interplanetary Trajectories with Nonideal Solar Sail. Journal of Spacecraft and Rockets, 2003, 40, 260-265.	1.9	25
12	Missions to asteroids using solar electric propulsion. Acta Astronautica, 2002, 50, 705-711.	3.2	18
13	Mixture-Ratio Control to Improve Hydrogen-Fuel Rocket Performance. Journal of Spacecraft and Rockets, 1997, 34, 214-217.	1.9	13
14	Optimal Low-Thrust Maneuvers in Presence of Earth Shadow. , 2004, , .		13
15	Analysis of air-turbo-rocket performance. Journal of Propulsion and Power, 1995, 11, 950-954.	2.2	10
16	Integrated Optimization of First-Stage SRM and Ascent Trajectory of Multistage Launch Vehicles. Journal of Spacecraft and Rockets, 2021, 58, 786-797.	1.9	9
17	Evolutionary Optimization of Multirendezvous Impulsive Trajectories. International Journal of Aerospace Engineering, 2021, 2021, 1-19.	0.9	9
18	1st ACT global trajectory optimisation competition: Results found at the Politecnico of Turin. Acta Astronautica, 2007, 61, 769-774.	3.2	8

#	ARTICLE	IF	CITATIONS
19	Indirect Optimization of Satellite Deployment into a Highly Elliptic Orbit. International Journal of Aerospace Engineering, 2012, 2012, 1-14.	0.9	8
20	Four-Impulsive Rendezvous Maneuvers for Spacecrafts in Circular Orbits Using Genetic Algorithms. Mathematical Problems in Engineering, 2012, 2012, 1-16.	1.1	8
21	Indirect Methods for the Optimization of Spacecraft Trajectories. Springer Optimization and Its Applications, 2012, , 141-158.	0.9	8
22	Preliminary Capture Trajectory Design for Europa Tomography Probe. International Journal of Aerospace Engineering, 2018, 2018, 1-12.	0.9	8
23	Resonant Fly-by Missions to Near Earth Asteroids. Celestial Mechanics and Dynamical Astronomy, 2002, 83, 49-62.	1.4	7
24	Optimal Performance of a Dual-Fuel Single-Stage Rocket. Journal of Spacecraft and Rockets, 1998, 35, 667-671.	1.9	6
25	Low-Thrust Trajectories to Mercury with Multiple Gravity Assists. , 2007, , .		6
26	Indirect Optimization of Finite-Thrust Cooperative Rendezvous. Journal of Guidance, Control, and Dynamics, 2015, 38, 304-314.	2.8	6
27	Space Engineering. Springer Optimization and Its Applications, 2016, , .	0.9	6
28	Optimization of rocket ascent trajectories using an indirect procedure. , 1995, , .		5
29	Mars gravity assist to improve missions towards main-belt asteroids. Acta Astronautica, 2003, 53, 521-526.	3.2	5
30	Optimal trajectories towards near-earth-objects using solar electric propulsion (SEP) and gravity assisted maneuver. Journal of Aerospace Engineering, Sciences and Applications, 2008, 1, 51-64.	0.3	5
31	Optimal finite-thrust spacecraft trajectories. , 1992, , .		4
32	Minimum-Fuel Escape from Two-Body Sun-Earth System. Journal of Guidance, Control, and Dynamics, 1999, 22, 632-636.	2.8	4
33	Optimal Geometry of Self-Field Magnetoplasmadynamic Thrusters. Journal of Propulsion and Power, 2001, 17, 472-474.	2.2	4
34	Trade-off Between Payload and Trip-Time for EP Interplanetary Trajectories. , 2004, , .		4
35	Optimal propellant control in hybrid rocket engines. , 1995, , .		3
36	Characteristics of Electric Propulsion Systems for Optimal Interplanetary Trajectories. , 2003, , .		3

#	ARTICLE	IF	CITATIONS
37	Integrated Design of Hybrid Rocket Upper Stage and Launcher Trajectory. , 2009, , .		3
38	Tentative Solutions for Indirect Optimization of Spacecraft Trajectories. Springer Optimization and Its Applications, 2016, , 87-102.	0.9	3
39	Optimal three-dimensional trajectories for manned Mars missions. , 1996, , .		2
40	A new mission concept to reach near-Earth planets. , 2000, , .		2
41	On the use of A* search for active debris removal mission planning. Journal of Space Safety Engineering, 2021, 8, 245-255.	0.9	2
42	A Physically Consistent Time-Dependent Method for the Solution of the Euler Equations in Transonic Flow. , 1981, , 125-135.		2
43	A new configuration of the thermally actuated Vuilleumier refrigerator. , 1993, , .		1
44	An analysis of air-turborocket performance. , 1993, , .		1
45	Optimal low-thrust escape from the solar system. , 1994, , .		1
46	Indirect approach for minimum-fuel aeroassisted transfers. , 1996, , .		1
47	Optimal geometry of self-field magnetoplasmadynamic thrusters. , 1998, , .		1
48	Energy Management in Rocket Propulsion. Journal of Propulsion and Power, 2000, 16, 705-708.	2.2	1
49	Channel geometry for optimal MPD acceleration. , 2000, , .		1
50	Improved Edelbaum's Approach to Optimize LEO-GEO Low-Thrust Transfers. , 2004, , .		1
51	Deployment of a Two-Spacecraft Formation into a Highly Elliptic Orbit with Collision Avoidance. , 2012, , .		1
52	Resonant Fly-by Missions to near Earth Asteroids. , 2002, , 49-62.		1
53	Heat Transfer Analysis in Pressurizer Tank Under Microgravity. , 1986, , .		0
54	Mixture-ratio control to improve LOX/LH2 rocket performance. , 1996, , .		0

#	ARTICLE	IF	CITATIONS
55	Numerical tracking of the solid-gas interface in rocket motors. , 1997, , .		0
56	Optimal Performance of Enthalpy Rocket. Journal of Propulsion and Power, 1999, 15, 485-488.	2.2	0
57	One-dimensional analysis of parabolic-profile MPD thrusters. , 2001, , .		0
58	A small spacecraft to probe the interior of the Jovian moon Europa: Europa Tomography Probe (ETP) system design. Acta Astronautica, 2020, 166, 137-146.	3.2	0
59	NUMERICAL ANALYSIS OF GRAIN BURNBACK IN SOLID PROPELLANTS. International Journal of Energetic Materials and Chemical Propulsion, 2002, 5, 646-651.	0.3	0
60	Optimal Control of a Grey Solar Sail for Interplanetary Missions. Journal of the Astronautical Sciences, 2003, 51, 405-418.	1.5	0