Rodney L Anderson

List of Publications by Year
in descending order

32
papers	489
citations	759233
12
h-index	752698
20
g-index
35
all docs	35
docs citations	35
times ranked	192
citing authors

#	Article	IF	Citations
1	Role of Invariant Manifolds in Low-Thrust Trajectory Design. Journal of Guidance, Control, and Dynamics, 2009, 32, 1921-1930.	2.8	59
2	Optimal transfers between unstable periodic orbits using invariant manifolds. Celestial Mechanics and Dynamical Astronomy, 2011, 109, 241-264.	1.4	52
3	The use of invariant manifolds for transfers between unstable periodic orbits of different energies. Celestial Mechanics and Dynamical Astronomy, 2010, 107, 471-485.	1.4	42
4	Sensitivity of Orbit Predictions to Density Variability. Journal of Spacecraft and Rockets, 2009, 46, 1214-1230.	1.9	28
5	Dynamical Systems Analysis of Planetary Flybys and Approach: Planar Europa Orbiter. Journal of Guidance, Control, and Dynamics, 2010, 33, 1899-1912.	2.8	21
6	Broad search for unstable resonant orbits in the planar circular restricted three-body problem. Celestial Mechanics and Dynamical Astronomy, 2016, 124, 177-199.	1.4	19
7	A Dynamical Systems Analysis of Resonant Flybys: Ballistic Case. Journal of the Astronautical Sciences, 2011, 58, 167-194.	1.5	17
8	Survey of Ballistic Transfers to the Lunar Surface. Journal of Guidance, Control, and Dynamics, 2012, 35, 1256-1267.	2.8	15
9	Approaching Moons from Resonance via Invariant Manifolds. Journal of Guidance, Control, and Dynamics, 2015, 38, 1097-1109.	2.8	15
10	Surveying Ballistic Transfers to Low Lunar Orbit. Journal of Guidance, Control, and Dynamics, 2013, 36, 1501-1511.	2.8	14
11	Comparison of low-energy lunar transfer trajectories to invariant manifolds. Celestial Mechanics and Dynamical Astronomy, 2013, 115, 311-331.	1.4	14
12	Rapid and accurate methods for computing whiskered tori and their manifolds in periodically perturbed planar circular restricted 3-body problems. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	1.4	13
13	Targeting low-energy transfers to low lunar orbit. Acta Astronautica, 2013, 84, 1-14.	3.2	12
14	Isolating blocks as computational tools in the circular restricted three-body problem. Physica D: Nonlinear Phenomena, 2017, 343, 38-50.	2.8	12
15	Spatial approaches to moons from resonance relative to invariant manifolds. Acta Astronautica, 2014, 105, 355-372.	3.2	11
16	High-order resonant orbit manifold expansions for mission design in the planar circular restricted 3-body problem. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105691.	3.3	10
17	Tour Design Using Resonant-Orbit Invariant Manifolds in Patched Circular Restricted Three-Body Problems. Journal of Guidance, Control, and Dynamics, 2021, 44, 106-119.	2.8	9
18	Computer Aided Ballistic Orbit Classification Around Small Bodies. Journal of the Astronautical Sciences, 2016, 63, 175-205.	1.5	7

#	Article	IF	Citations
19	Analysis of Petal Rotation Trajectory Characteristics. Journal of Guidance, Control, and Dynamics, 2018, 41, 827-840.	2.8	4
20	Multielement Separated Representations for Orbit Uncertainty Propagation. Journal of Guidance, Control, and Dynamics, 2019, 42, 1930-1945.	2.8	4
21	Cell-mapping orbit search for mission design at ocean worlds using parallel computing. Journal of the Astronautical Sciences, 2021, 68, 172-196.	1.5	4
22	Endgame Design for Europa Lander: Ganymede to Europa Approach. Journal of the Astronautical Sciences, 2021, 68, 96-119.	1.5	4
23	Analysis of Petal Rotation Trajectory Characteristics. , 2014, , .		4
24	Trajectory Design for MoonRise: A Proposed Lunar South Pole Aitken Basin Sample Return Mission. Journal of the Astronautical Sciences, 2015, 62, 44-72.	1.5	3
25	Computing libration point isolated invariant sets using isolating blocks. Physica D: Nonlinear Phenomena, 2020, 405, 132361.	2.8	3
26	Designing Low-Thrust Transfers to High-Inclination Science Orbits via Hybrid Optimization. Journal of Spacecraft and Rockets, 2021, 58, 1339-1351.	1.9	3
27	Effect of Density Model Time-Delay Errors on Orbit Prediction. Journal of Spacecraft and Rockets, 2013, 50, 1096-1105.	1.9	2
28	Planar low-energy asteroid and comet transit analysis using isolating blocks. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1.	1.4	2
29	Preliminary Study of Geosynchronous Orbit Transfers from LEO using Invariant Manifolds. Journal of the Astronautical Sciences, 2011, 58, 295-310.	1.5	1
30	Magnetour: Surfing planetary systems on electromagnetic and multi-body gravity fields. Acta Astronautica, 2017, 138, 543-558.	3.2	1
31	Exploring Transfers between Earth-Moon Halo Orbits via Multi-Objective Reinforcement Learning. , 2021, 50100, .		1
32	Exploring the Low-Thrust Transfer Design Space in an Ephemeris Model via Multi-Objective Reinforcement Learning. , 2022, , .		1