

# Rodney L Anderson

## List of Publications by Year in descending order

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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	Exploring the Low-Thrust Transfer Design Space in an Ephemeris Model via Multi-Objective Reinforcement Learning. , 2022, , .		1
2	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
3	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
4	Exploring Transfers between Earth-Moon Halo Orbits via Multi-Objective Reinforcement Learning. , 2021, 50100, .		1
5	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
6	Endgame Design for Europa Lander: Ganymede to Europa Approach. Journal of the Astronautical Sciences, 2021, 68, 96-119.	1.5	4
7	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
8	Designing Low-Thrust Transfers to High-Inclination Science Orbits via Hybrid Optimization. Journal of Spacecraft and Rockets, 2021, 58, 1339-1351.	1.9	3
9	Computing libration point isolated invariant sets using isolating blocks. Physica D: Nonlinear Phenomena, 2020, 405, 132361.	2.8	3
10	Planar low-energy asteroid and comet transit analysis using isolating blocks. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1.	1.4	2
11	Multielement Separated Representations for Orbit Uncertainty Propagation. Journal of Guidance, Control, and Dynamics, 2019, 42, 1930-1945.	2.8	4
12	Analysis of Petal Rotation Trajectory Characteristics. Journal of Guidance, Control, and Dynamics, 2018, 41, 827-840.	2.8	4
13	Isolating blocks as computational tools in the circular restricted three-body problem. Physica D: Nonlinear Phenomena, 2017, 343, 38-50.	2.8	12
14	Magnetour: Surfing planetary systems on electromagnetic and multi-body gravity fields. Acta Astronautica, 2017, 138, 543-558.	3.2	1
15	Computer Aided Ballistic Orbit Classification Around Small Bodies. Journal of the Astronautical Sciences, 2016, 63, 175-205.	1.5	7
16	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
17	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
18	Approaching Moons from Resonance via Invariant Manifolds. Journal of Guidance, Control, and Dynamics, 2015, 38, 1097-1109.	2.8	15

#	ARTICLE	IF	CITATIONS
19	Spatial approaches to moons from resonance relative to invariant manifolds. <i>Acta Astronautica</i> , 2014, 105, 355-372.	3.2	11
20	Analysis of Petal Rotation Trajectory Characteristics. , 2014, , .		4
21	Surveying Ballistic Transfers to Low Lunar Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1501-1511.	2.8	14
22	Targeting low-energy transfers to low lunar orbit. <i>Acta Astronautica</i> , 2013, 84, 1-14.	3.2	12
23	Comparison of low-energy lunar transfer trajectories to invariant manifolds. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2013, 115, 311-331.	1.4	14
24	Effect of Density Model Time-Delay Errors on Orbit Prediction. <i>Journal of Spacecraft and Rockets</i> , 2013, 50, 1096-1105.	1.9	2
25	Survey of Ballistic Transfers to the Lunar Surface. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1256-1267.	2.8	15
26	A Dynamical Systems Analysis of Resonant Flybys: Ballistic Case. <i>Journal of the Astronautical Sciences</i> , 2011, 58, 167-194.	1.5	17
27	Preliminary Study of Geosynchronous Orbit Transfers from LEO using Invariant Manifolds. <i>Journal of the Astronautical Sciences</i> , 2011, 58, 295-310.	1.5	1
28	Optimal transfers between unstable periodic orbits using invariant manifolds. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2011, 109, 241-264.	1.4	52
29	The use of invariant manifolds for transfers between unstable periodic orbits of different energies. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 107, 471-485.	1.4	42
30	Dynamical Systems Analysis of Planetary Flybys and Approach: Planar Europa Orbiter. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1899-1912.	2.8	21
31	Sensitivity of Orbit Predictions to Density Variability. <i>Journal of Spacecraft and Rockets</i> , 2009, 46, 1214-1230.	1.9	28
32	Role of Invariant Manifolds in Low-Thrust Trajectory Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2009, 32, 1921-1930.	2.8	59