

# Soumyo Dutta

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

292  
citations

1162889

8  
h-index

1281743

11  
g-index

34  
all docs

34  
docs citations

34  
times ranked

98  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptable Deployable Entry and Placement Technology Sounding Rocket One Modeling and Reconstruction. <i>Journal of Spacecraft and Rockets</i> , 2022, 59, 236-259.	1.3	12
2	Mars Entry, Descent, and Landing Instrumentation 2 Trajectory, Aerodynamics, and Atmosphere Reconstruction. , 2022, , .		10
3	Assessment of the Mars 2020 Entry, Descent, and Landing Simulation. , 2022, , .		13
4	Post-flight Analysis of Atmospheric Properties from Mars 2020 Entry, Descent, and Landing. , 2022, , .		8
5	Flight control methodologies for Neptune aerocapture trajectories. <i>Acta Astronautica</i> , 2022, 193, 255-268.	1.7	7
6	The Case for a New Frontiersâ€œClass Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022, 3, 58.	1.5	12
7	Pre- and Post-entry, Descent and Landing Assessment of the Martian Atmosphere for the Mars 2020 Rover. <i>Planetary Science Journal</i> , 2022, 3, 147.	1.5	4
8	Multi-Model Monte Carlo Estimators for Trajectory Simulation. , 2021, , .		3
9	Aerocapture as an Enhancing Option for Ice Giants Missions. , 2021, 53, .		3
10	EDL Simulation Results for the Mars 2020 Landing Site Safety Assessment. , 2020, , .		4
11	ASPIRE Parachute Modeling and Comparison to Post-Flight Reconstruction. , 2020, , .		0
12	Investigation of direct force control for aerocapture at Neptune. <i>Acta Astronautica</i> , 2020, 175, 375-386.	1.7	18
13	Advanced Supersonic Parachute Inflation Research Experiment Preflight Trajectory Modeling and Postflight Reconstruction. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 1387-1407.	1.3	9
14	Flight Mechanics Modeling and Post-Flight Analysis of ADEPT SR-1. , 2019, , .		9
15	Aerodynamics for the ADEPT SR-1 Flight Experiment. , 2019, , .		3
16	Reconstruction of the Adaptable Deployable Entry and Placement Technology Sounding Rocket One Flight Test. , 2019, , .		3
17	ASPIRE Flight Mechanics Modeling and Post Flight Analysis. , 2018, , .		9
18	Comparison of the Effects of Velocity and Range Triggers on Trajectory Dispersions for the Mars 2020 Mission. , 2017, , .		17

#	ARTICLE	IF	CITATIONS
19	Guidance Scheme for Modulation of Drag Devices to Enable Return from Low Earth Orbit. , 2017, , .		12
20	ADEPT sounding rocket one (SR-1) flight experiment overview. , 2017, , .		4
21	LDSO supersonic Flight Dynamics Test 1: Post-flight reconstruction. , 2015, , .		2
22	Uncertainty Quantification for Mars Entry, Descent, and Landing Reconstruction Using Adaptive Filtering. Journal of Spacecraft and Rockets, 2014, 51, 967-977.	1.3	22
23	Statistical Entry, Descent, and Landing Performance Reconstruction of the Mars Science Laboratory. Journal of Spacecraft and Rockets, 2014, 51, 1048-1061.	1.3	27
24	Atmospheric Data System Sensor Placement Optimization for Mars Entry, Descent, and Landing. Journal of Spacecraft and Rockets, 2014, 51, 163-174.	1.3	11
25	Cramer-Rao Lower-Bound Optimization of Flush Atmospheric Data System Sensor Placement. Journal of Spacecraft and Rockets, 2014, 51, 1773-1788.	1.3	6
26	Analytically-derived Aerodynamic Force and Moment Coefficients of Resident Space Objects in Free-Molecular Flow. , 2014, , .		7
27	Statistical Entry, Descent, and Landing Performance Reconstruction of the Mars Science Laboratory. , 2014, , .		2
28	Cramer-Rao Lower Bound Optimization of Flush Atmospheric Data System Sensor Placement. , 2013, , .		0
29	Uncertainty Quantification for Mars Entry, Descent, and Landing Reconstruction Using Adaptive Filtering. , 2013, , .		2
30	Comparison of Statistical Estimation Techniques for Mars Entry, Descent, and Landing Reconstruction. Journal of Spacecraft and Rockets, 2013, 50, 1207-1221.	1.3	12
31	Comparison of Statistical Estimation Techniques for Mars Entry, Descent and Landing Reconstruction from MEDLI-like Data Sources. , 2012, , .		10
32	Atmospheric Data System Sensor Placement Optimization for Mars Entry, Descent, and Landing. , 2012, , .		2
33	Mission sizing and trade studies for low ballistic coefficient entry systems to Venus. , 2012, , .		11
34	Mars Entry, Descent, and Landing Trajectory and Atmosphere Reconstruction. , 2010, , .		18