

Daniel J Scheeres

List of Publications by Year in descending order

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484
papers

17,977
citations

15504

65
h-index

21540

114
g-index

504
all docs

504
docs citations

504
times ranked

4109
citing authors

#	ARTICLE	IF	CITATIONS
19	Autonomous Exploration of a Small Near-Earth Asteroid. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 701-718.	2.8	12
20	Inverting gas-surface interaction parameters from Fourier drag-coefficient estimates for a given atmospheric model. <i>Advances in Space Research</i> , 2021, 68, 1902-1927.	2.6	3
21	Radar and Optical Study of Defunct Geosynchronous Satellites. <i>Journal of the Astronautical Sciences</i> , 2021, 68, 728-749.	1.5	3
22	A satellite orbit drift in binary near-Earth asteroids (66391) 1999 KW4 and (88710) 2001 SL9 – Indication of the BYORP effect. <i>Icarus</i> , 2021, 360, 114321.	2.5	21
23	Limiting Behavior of Asteroid Obliquity and Spin Using a Semi-analytic Thermal Model of the YORP Effect. <i>Astronomical Journal</i> , 2021, 162, 8.	4.7	7
24	The Feasibility of Targeting Chaotic Regions in the GNSS Regime. <i>Journal of the Astronautical Sciences</i> , 2021, 68, 553-584.	1.5	2
25	Delta-V-Based Analysis of Spacecraft Pursuit – Evasion Games. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1961-1971.	2.8	18
26	Multi-Objective Optimization of Covariance and Energy for Asteroid Transfers. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1253-1265.	2.8	7
27	Modified granular impact force laws for the OSIRIS-REx touchdown on the surface of asteroid (101955) Bennu. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5087-5105.	4.4	21
28	Rotational states and shapes of Ryugu and Bennu: Implications for interior structure and strength. <i>Planetary and Space Science</i> , 2021, 204, 105268.	1.7	15
29	The effect of planetary flybys on singly synchronous binary asteroids. <i>Icarus</i> , 2021, 367, 114554.	2.5	12
30	Laboratory experiments with self-cohesive powders: Application to the morphology of regolith on small asteroids. <i>Planetary and Space Science</i> , 2021, 207, 105321.	1.7	4
31	Optimal Spacecraft Guidance With Asynchronous Measurements and Noisy Impulsive Controls. , 2021, 5, 1813-1818.		4
32	The excited spin state of Dimorphos resulting from the DART impact. <i>Icarus</i> , 2021, 370, 114624.	2.5	33
33	Internal rubble properties of asteroid (101955) Bennu. <i>Icarus</i> , 2021, 370, 114665.	2.5	15
34	Observation and Maneuver Detection for Cislunar Vehicles. <i>Journal of the Astronautical Sciences</i> , 2021, 68, 826-854.	1.5	6
35	Analysis of Cohesion in Fast-spinning Small Bodies. <i>Planetary Science Journal</i> , 2021, 2, 229.	3.6	1
36	Libration-induced Orbit Period Variations Following the DART Impact. <i>Planetary Science Journal</i> , 2021, 2, 242.	3.6	14

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37	Sensitivity of Optimal Control Problems Arising from their Hamiltonian Structure. <i>Journal of the Astronautical Sciences</i> , 2020, 67, 539-551.	1.5	1
38	GOES spin state diversity and the implications for GEO debris mitigation. <i>Acta Astronautica</i> , 2020, 167, 212-221.	3.2	7
39	Cohesive regolith on fast rotating asteroids. <i>Icarus</i> , 2020, 338, 113443.	2.5	27
40	Disassociation energies for the finite-density N-body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2020, 132, 1.	1.4	3
41	Spin state evolution of asteroid (367943) Duende during its 2013 earth flyby. <i>Icarus</i> , 2020, 340, 113518.	2.5	6
42	Observational investigation of the 2013 near-Earth encounter by asteroid (367943) Duende. <i>Icarus</i> , 2020, 340, 113519.	2.5	5
43	Simulation of Nonspherical Asteroid Landers: Contact Modeling and Shape Effects on Bouncing. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 109-130.	1.9	24
44	Heterogeneous mass distribution of the rubble-pile asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	10.3	50
45	Trajectory Estimation for Particles Observed in the Vicinity of (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006363.	3.6	51
46	Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Bennu and (162173) Ryugu. <i>Icarus</i> , 2020, 352, 113946.	2.5	28
47	Drag Coefficient Model to Track Variations due to Attitude and Orbital Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1915-1926.	2.8	6
48	Higher-Order Corrections for Frozen Terminator Orbit Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1642-1655.	2.8	12
49	Gravitational Force Model Aliasing with Nongravitational Force Coefficients in Dynamic Prediction. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1984-1997.	2.8	2
50	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006475.	3.6	60
51	Minimum Bounds on Multispacecraft \hat{P}^V Optimal Cooperative Rendezvous. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 2333-2348.	2.8	3
52	Orbit insertion strategy of Hayabusa2's rover with large release uncertainty around the asteroid Ryugu. <i>Astrodynamic</i> s, 2020, 4, 309-329.	2.4	12
53	Radar observations and a physical model of binary near-Earth asteroid 65803 Didymos, target of the DART mission. <i>Icarus</i> , 2020, 348, 113777.	2.5	106
54	Estimation of Stochastic Events for Vehicles in NRHOs. , 2020, , .		0

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55	Dynamical Evolution of Simulated Particles Ejected From Asteroid Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006229.	3.6	23
56	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. Astronomical Journal, 2020, 160, 14.	4.7	34
57	Particle Ejection Contributions to the Rotational Acceleration and Orbit Evolution of Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006284.	3.6	12
58	Optimal Control of Sampled Linear Systems With Control-Linear Noise. , 2020, 4, 650-655.		7
59	Generalized Spacecraft Formation Design through Exploitation of Quasi-Periodic Tori Families. , 2020, , .		1
60	Doubly synchronous binary asteroid mass parameter observability. Icarus, 2020, 341, 113439.	2.5	22
61	Post-main-sequence debris from rotation-induced YORP break-up of small bodies â€œ II. Multiple fissions, internal strengths, and binary production. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2437-2445.	4.4	27
62	A Drag Coefficient Modeling Approach Using Spatial and Temporal Fourier Expansions for Orbit Determination. Journal of the Astronautical Sciences, 2020, 67, 1139-1168.	1.5	6
63	Evolution of an Asteroid Family under YORP, Yarkovsky, and Collisions. Astronomical Journal, 2020, 160, 128.	4.7	9
64	High-fidelity Modeling of Rotationally Fissioned Asteroids. Planetary Science Journal, 2020, 1, 25.	3.6	11
65	King-Hele orbit theory for periodic orbit and attitude variations. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1168-1187.	4.4	0
66	Rotationally induced failure of irregularly shaped asteroids. Icarus, 2019, 317, 354-364.	2.5	35
67	Representing dynamics in the eccentric Hill system using a neural network architecture. Astrodynamics, 2019, 3, 301-324.	2.4	1
68	Detection of Rotational Acceleration of Bennu Using HST Light Curve Observations. Geophysical Research Letters, 2019, 46, 1956-1962.	4.0	36
69	Small Solar System Bodies as granular media. Astronomy and Astrophysics Review, 2019, 27, 1.	25.5	31
70	Asteroid pairs: A complex picture. Icarus, 2019, 333, 429-463.	2.5	47
71	Study of the roto-orbital motion using intermediaries: numerical experiments. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1.	1.4	1
72	Identifying heteroclinic connections using artificial neural networks. Acta Astronautica, 2019, 161, 192-199.	3.2	12

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73	Leveraging Artificial Neural Networks to Systematically Explore Solar Gravity Driven Transfers in the Martian System. <i>Journal of the Astronautical Sciences</i> , 2019, 66, 282-321.	1.5	0
74	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019, 10, 1291.	12.8	99
75	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	10.1	132
76	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019, 12, 242-246.	12.9	161
77	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
78	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	27.8	364
79	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu – A spinning top-shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
80	Hybrid Differential Dynamic Programming in the Circular Restricted Three-Body Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 963-975.	2.8	6
81	Systematic Structure and Sinks in the YORP Effect. <i>Astronomical Journal</i> , 2019, 157, 105.	4.7	17
82	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019, 874, L10.	8.3	30
83	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	12.6	129
84	Assessing possible mutual orbit period change by shape deformation of Didymos after a kinetic impact in the NASA-led Double Asteroid Redirection Test. <i>Advances in Space Research</i> , 2019, 63, 2515-2534.	2.6	21
85	Dynamics in the Phobos environment. <i>Advances in Space Research</i> , 2019, 63, 476-495.	2.6	27
86	Orbital Stability Regions for Hypothetical Natural Satellites of (101955) Bennu. <i>Journal of Spacecraft and Rockets</i> , 2019, 56, 789-800.	1.9	7
87	A New Equilibrium State for Singly Synchronous Binary Asteroids. <i>Astrophysical Journal Letters</i> , 2018, 857, L5.	8.3	3
88	A revised shape model of asteroid (216) Kleopatra. <i>Icarus</i> , 2018, 311, 197-209.	2.5	25
89	Rotational evolution of self-gravitating aggregates with cores of variable strength. <i>Planetary and Space Science</i> , 2018, 157, 39-47.	1.7	39
90	Drag-perturbed bounded relative trajectories in low Earth orbit: A semi-analytical approach. <i>Acta Astronautica</i> , 2018, 153, 229-239.	3.2	0

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91	The OSIRIS-REx Radio Science Experiment at Bennu. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	36
92	Spacecraft Rendezvous and Pursuit/Evasion Analysis Using Reachable Sets. , 2018, , .		4
93	Differential Dynamic Programming in the Three-Body Problem. , 2018, , .		0
94	Fully Numerical Methods for Continuing Families of Quasi-Periodic Invariant Tori in Astrodynamics. <i>Journal of the Astronautical Sciences</i> , 2018, 65, 157-182.	1.5	35
95	A Radial Axial-symmetric Intermediary Model for the Roto-orbital Motion. <i>Journal of the Astronautical Sciences</i> , 2018, 65, 1-28.	1.5	6
96	Optimal Deployment of Solar Radiation Pressure Enhancement Devices for Space Debris Mitigation. , 2018, , .		2
97	Nonlinear Attractive and Reachable Sets Under Optimal Control in Three-Body Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1766-1775.	2.8	3
98	Solar-Sail Orbital Motion About Asteroids and Binary Asteroid Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1947-1962.	2.8	22
99	An optimization approach for observation association with systemic uncertainty applied to electro-optical systems. <i>Advances in Space Research</i> , 2018, 61, 2709-2724.	2.6	2
100	Stability of the Euler resting N-body relative equilibria. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2018, 130, 1.	1.4	3
101	Hybrid Method for Uncertainty Propagation of Orbital Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 240-254.	2.8	11
102	Disaggregation of small, cohesive rubble pile asteroids due to YORP. <i>Icarus</i> , 2018, 304, 183-191.	2.5	25
103	Equatorial cavities on asteroids, an evidence of fission events. <i>Icarus</i> , 2018, 304, 192-208.	2.5	29
104	The YORP effect on the GOES 8 and GOES 10 satellites: A case study. <i>Advances in Space Research</i> , 2018, 61, 122-144.	2.6	12
105	Asteroid clusters similar to asteroid pairs. <i>Icarus</i> , 2018, 304, 110-126.	2.5	43
106	Scaling behavior of cohesive self-gravitating aggregates. <i>Physical Review E</i> , 2018, 98, .	2.1	12
107	YORP equilibria: ways out of YORP cycles. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 15-15.	0.0	0
108	Geotechnical Properties of Asteroids Affecting Surface Operations, Mining, and In Situ Resource Utilization Activities. , 2018, , 439-476.		4

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109	Dynamics and Stability of Sun-Driven Transfers from Low Earth to Geosynchronous Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2002-2010.	2.8	3
110	Implications of cohesive strength in asteroid interiors and surfaces and its measurement. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	19
111	Prearrival Deployment Analysis of Rovers on Hayabusa2 Asteroid Explorer. <i>Journal of Spacecraft and Rockets</i> , 2018, 55, 797-817.	1.9	31
112	Rolling resistance of a spherical pod on a granular bed. <i>Granular Matter</i> , 2017, 19, 1.	2.2	14
113	Precise Solar Radiation Pressure Models for Small-Body Orbiters: Applications to OSIRIS-REx Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 1638-1650.	2.8	4
114	Lift-Off Velocity on Solar-System Small Bodies. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 1990-2005.	2.8	8
115	Constraints on bounded motion and mutual escape for the full 3-body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2017, 128, 131-148.	1.4	4
116	Numerical investigation of the dynamical environment of 65803 Didymos. <i>Advances in Space Research</i> , 2017, 59, 1304-1320.	2.6	33
117	Reactive and Robust Paradigms for Autonomous Mission Design at Small Bodies. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 333-343.	2.8	1
118	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017, 212, 925-984.	8.1	426
119	Parametric Study of Ballistic Lander Deployment to Small Bodies. <i>Journal of Spacecraft and Rockets</i> , 2017, 54, 1330-1355.	1.9	27
120	Looking into the evolution of granular asteroids in the Solar System. <i>EPJ Web of Conferences</i> , 2017, 140, 14004.	0.3	3
121	Shape Dependence of the Kinetic Deflection of Asteroids. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 2417-2431.	2.8	18
122	Constraints on the perturbed mutual motion in Didymos due to impact-induced deformation of its primary after the DART impact. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1641-1648.	4.4	16
123	Design of Bounded Relative Trajectories in the Earth Zonal Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3075-3087.	2.8	15
124	Goldstone radar evidence for short-axis mode non-principal-axis rotation of near-Earth asteroid (214869) 2007 PA8. <i>Icarus</i> , 2017, 286, 314-329.	2.5	6
125	Sensitivity Analysis of the OSIRIS-REx Terminator Orbits to Maneuver Errors. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 81-95.	2.8	23
126	Mutual potential between two rigid bodies with arbitrary shapes and mass distributions. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2017, 127, 369-395.	1.4	49

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127	Bounded relative motion under zonal harmonics perturbations. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2017, 127, 527-548.	1.4	16
128	The effect of asteroid topography on surface ablation deflection. <i>Advances in Space Research</i> , 2017, 59, 1144-1155.	2.6	7
129	Small solar system bodies as granular systems. <i>EPJ Web of Conferences</i> , 2017, 140, 14011.	0.3	1
130	Precise Model for Small-Body Thermal Radiation Pressure Acting on Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 2432-2441.	2.8	7
131	Dynamics of the Jupiter Trojans with Saturn's perturbation when the two planets are in migration. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2016, 125, 451-484.	1.4	6
132	Obliquity dependence of the tangential YORP. <i>Astronomy and Astrophysics</i> , 2016, 592, A115.	5.1	7
133	EQUILIBRIUM ROTATION STATES OF DOUBLY SYNCHRONOUS BINARY ASTEROIDS. <i>Astrophysical Journal Letters</i> , 2016, 833, L23.	8.3	5
134	Maneuver Detection with Event Representation Using Thrust Fourier Coefficients. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 1080-1091.	2.8	13
135	The lift-off velocity on the surface of an arbitrary body. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2016, 125, 1-31.	1.4	11
136	The geophysical environment of Bennu. <i>Icarus</i> , 2016, 276, 116-140.	2.5	92
137	Relative Equilibria in the Full N-Body Problem with Applications to the Equal Mass Problem. <i>Mathematics for Industry</i> , 2016, , 31-81.	0.4	8
138	Attractive Sets to Unstable Orbits Using Optimal Feedback Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2725-2739.	2.8	8
139	Linearized Lambert's Problem Solution. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2205-2218.	2.8	14
140	Dynamics of rotationally fissioned asteroids: non-planar case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3982-3992.	4.4	17
141	Energy dissipation end states of the sphere restricted planar three-body problem with collisional interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 794-801.	4.4	1
142	Optimization of Hybrid Method for Uncertainty Propagation of Non-Keplerian Motion. , 2016, , .		1
143	Tracking Maneuvering Satellite Using Thrust-Fourier-Coefficient Event Representation. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2554-2562.	2.8	10
144	Relative Equilibria in the Spherical, Finite Density Three-Body Problem. <i>Journal of Nonlinear Science</i> , 2016, 26, 1445-1482.	2.1	11

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145	Matching asteroid population characteristics with a model constructed from the YORP-induced rotational fission hypothesis. <i>Icarus</i> , 2016, 277, 381-394.	2.5	15
146	Fission and reconfiguration of bilobate comets as revealed by 67P/Churyumovâ€™Gerasimenko. <i>Nature</i> , 2016, 534, 352-355.	27.8	68
147	Forced periodic motions by solar radiation pressure around uniformly rotating asteroids. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2016, 126, 405-432.	1.4	26
148	Coupled orbitâ€™attitude dynamics and relative state estimation of spacecraft near small Solar System bodies. <i>Advances in Space Research</i> , 2016, 57, 1747-1761.	2.6	44
149	Disruption patterns of rotating self-gravitating aggregates: A survey on angle of friction and tensile strength. <i>Icarus</i> , 2016, 271, 453-471.	2.5	58
150	Bounded relative orbits about asteroids for formation flying and applications. <i>Acta Astronautica</i> , 2016, 123, 364-375.	3.2	30
151	Physical models for the normal YORP and diurnal Yarkovsky effects. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3977-3989.	4.4	20
152	Orbit determination across unknown maneuvers using the essential Thrust-Fourier-Coefficients. <i>Acta Astronautica</i> , 2016, 118, 90-95.	3.2	6
153	Failure mode diagram of rubble pile asteroids: Application to (25143) asteroid Itokawa. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 122-127.	0.0	1
154	Hill Stability of Configurations in the Full N-Body Problem. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 128-134.	0.0	3
155	Dynamics of Satellites Around Asteroids in Presence of Solar Radiation Pressure. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 259-264.	0.0	0
156	Maneuver Detection and Reconstruction of Stationkeeping Spacecraft at GEO using the Optimal Control-Based Estimator. <i>IFAC-PapersOnLine</i> , 2015, 48, 216-221.	0.9	9
157	Adaptive Reachability Analysis to Achieve Mission Objectives in Strongly Non-Keplerian Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 468-477.	2.8	13
158	Event Representation-Based Orbit Determination Across Unknown Space Events. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 2351-2365.	2.8	7
159	Variation of delivered impulse as a function of asteroid shape. , 2015, , .		3
160	Stable motions around triangular libration points in the real Earthâ€™Moon system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4172-4181.	4.4	13
161	Abstraction Predictive Control for Chaotic Spacecraft Orbit Design**This work was supported by a NASA Space Technology Research Fellowship, grant #NNX12AM40H.. <i>IFAC-PapersOnLine</i> , 2015, 48, 178-184.	0.9	0
162	Human exploration of near Earth Asteroids: Architecture of proximity operations. <i>Acta Astronautica</i> , 2015, 110, 18-28.	3.2	4

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163	On the a and g families of orbits in the Hill problem with solar radiation pressure and their application to asteroid orbiters. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2015, 121, 365-384.	1.4	9
164	Locating Large Solar Power Satellites in the Geosynchronous Laplace Plane. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 489-505.	2.8	20
165	Analytical solution for the normal emission portion of the averaged Yarkovsky- O' Keefe- $Radzviesski$ - $Paddack$ coefficient for a single facet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 4029-4038.	4.4	1
166	Reachability Using Arbitrary Performance Indices. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 1099-1103.	5.7	6
167	Improving Space Object Catalog Maintenance Through Advances in Solar Radiation Pressure Modeling. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 1366-1381.	2.8	21
168	Effect of Dynamical Accuracy for Uncertainty Propagation of Perturbed Keplerian Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 2287-2300.	2.8	12
169	Evolution of angular velocity for defunct satellites as a result of YORP: An initial study. <i>Advances in Space Research</i> , 2015, 56, 237-251.	2.6	15
170	INTERNAL STRUCTURE OF ASTEROIDS HAVING SURFACE SHEDDING DUE TO ROTATIONAL INSTABILITY. <i>Astrophysical Journal</i> , 2015, 808, 63.	4.5	71
171	Tractable Expressions for Nonlinearly Propagated Uncertainties. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 1146-1151.	2.8	15
172	Spectral slope variations for OSIRIS-REx target Asteroid (101955) Bennu: Possible evidence for a fine-grained regolith equatorial ridge. <i>Icarus</i> , 2015, 256, 22-29.	2.5	54
173	Efficiently evaluating reachable sets in the circular restricted 3-body problem. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 454-467.	4.7	3
174	Finite-time control for spacecraft body-fixed hovering over an asteroid. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 506-520.	4.7	73
175	The OSIRIS-REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. <i>Meteoritics and Planetary Science</i> , 2015, 50, 834-849.	1.6	168
176	Temporarily Captured Asteroids as a Pathway to Affordable Asteroid Retrieval Missions. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 2132-2145.	2.8	17
177	STRESS AND FAILURE ANALYSIS OF RAPIDLY ROTATING ASTEROID (29075) 1950 DA. <i>Astrophysical Journal Letters</i> , 2015, 798, L8.	8.3	55
178	Landslides and Mass shedding on spinning spheroidal asteroids. <i>Icarus</i> , 2015, 247, 1-17.	2.5	82
179	In search of the source of asteroid (101955) Bennu: Applications of the stochastic YORP model. <i>Icarus</i> , 2015, 247, 191-217.	2.5	125
180	The Yarkovsky and YORP Effects. , 2015, , .		60

#	ARTICLE	IF	CITATIONS
181	Laplace Plane Dynamics with Solar Radiation Pressure in the Vicinity of an Asteroid. , 2014, , .		1
182	On-Orbit Operational Range Computation Using Gauss's Variational Equations with J2 Perturbations. Journal of Guidance, Control, and Dynamics, 2014, 37, 608-622.	2.8	26
183	A THREE-DIMENSIONAL MODEL OF TANGENTIAL YORP. Astrophysical Journal, 2014, 794, 22.	4.5	31
184	Long-Life Europa Geodesy Orbits Accounting for Navigation Uncertainties. Journal of Guidance, Control, and Dynamics, 2014, 37, 413-424.	2.8	1
185	Combined optimal control and state estimation for the purposes of maneuver detection and reconstruction. , 2014, , .		6
186	CONSTRAINTS ON THE PHYSICAL PROPERTIES OF MAIN BELT COMET P/2013 R3 FROM ITS BREAKUP EVENT. Astrophysical Journal Letters, 2014, 789, L12.	8.3	64
187	Jovian Capture of a Spacecraft with a Self-Balanced Electrodynamic Bare Tether. Journal of Spacecraft and Rockets, 2014, 51, 1401-1412.	1.9	2
188	Estimation of Asteroid Landing Trajectories Via Line-Of-Sight Measurements. , 2014, , .		1
189	Essential Thrust-Fourier-Coefficient Set of Averaged Gauss Equations for Orbital Mechanics. Journal of Guidance, Control, and Dynamics, 2014, 37, 1236-1249.	2.8	11
190	Estimation of Dynamics of Space Objects from Visual Feedback during Proximity Operations. , 2014, , .		6
191	LAPLACE PLANE MODIFICATIONS ARISING FROM SOLAR RADIATION PRESSURE. Astrophysical Journal, 2014, 786, 45.	4.5	10
192	Sandcastles in space. Nature, 2014, 512, 139-140.	27.8	4
193	Autonomous Maneuver Planning at Small Bodies via Mission Objective Reachability Analysis. , 2014, , .		6
194	Analytical Metrics for Asteroid Mitigation. , 2014, , .		0
195	The strength of regolith and rubble pile asteroids. Meteoritics and Planetary Science, 2014, 49, 788-811.	1.6	195
196	Effect of rotational disruption on the size-frequency distribution of the Main Belt asteroid population. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 439, L95-L99.	3.3	35
197	FORMATION OF THE WIDE ASYNCHRONOUS BINARY ASTEROID POPULATION. Astrophysical Journal, 2014, 780, 60.	4.5	27
198	ANALYSIS OF ASTEROID (216) KLEOPATRA USING DYNAMICAL AND STRUCTURAL CONSTRAINTS. Astrophysical Journal, 2014, 780, 160.	4.5	35

#	ARTICLE	IF	CITATIONS
199	The classical Laplace plane as a stable disposal orbit for geostationary satellites. <i>Advances in Space Research</i> , 2014, 53, 1219-1228.	2.6	25
200	On the Milankovitch orbital elements for perturbed Keplerian motion. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 118, 197-220.	1.4	71
201	General Solar Radiation Pressure Model for Global Positioning System Orbit Determination. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 325-330.	2.8	3
202	Close proximity dynamics and control about asteroids. , 2014, , .		11
203	Applications of Symplectic Topology to Orbit Uncertainty and Spacecraft Navigation. <i>Journal of the Astronautical Sciences</i> , 2014, 59, 63-83.	1.5	3
204	Averaging analyses for spacecraft orbital motions around asteroids. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014, 30, 294-300.	3.4	4
205	Identifying and Estimating Mismodeled Dynamics via Optimal Control Policies and Distance Metrics. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 1512-1523.	2.8	10
206	Human exploration of near earth asteroids: Mission analysis for chemical and electric propulsion. <i>Acta Astronautica</i> , 2014, 104, 313-323.	3.2	13
207	Contact Motion on Surface of Asteroid. <i>Journal of Spacecraft and Rockets</i> , 2014, 51, 1857-1871.	1.9	56
208	Optimal Formation Reconfigurations Subject to Hill Three-Body Dynamics. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 700-705.	2.8	4
209	Optimal tracking and formation keeping near a general Keplerian orbit under nonlinear perturbations. <i>Advances in Space Research</i> , 2014, 54, 1019-1028.	2.6	7
210	Almost global asymptotic tracking control for spacecraft body-fixed hovering over an asteroid. <i>Aerospace Science and Technology</i> , 2014, 38, 105-115.	4.8	62
211	Saturn Trojans: a dynamical point of view. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1420-1433.	4.4	12
212	Morphology driven density distribution estimation for small bodies. <i>Icarus</i> , 2014, 233, 179-193.	2.5	23
213	Association of optical tracklets from a geosynchronous belt survey via the direct Bayesian admissible region approach. <i>Advances in Space Research</i> , 2014, 53, 295-308.	2.6	20
214	Small body surface gravity fields via spherical harmonic expansions. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 119, 169-206.	1.4	46
215	Dynamics of the Jupiter Trojans with Saturn's perturbation in the present configuration of the two planets. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 119, 119-142.	1.4	9
216	Observer-based body-frame hovering control over a tumbling asteroid. <i>Acta Astronautica</i> , 2014, 102, 124-139.	3.2	30

#	ARTICLE	IF	CITATIONS
217	Linearized Lambert's Solution for Computationally Efficient Applications. , 2014, , .		0
218	Spherical Harmonic Potentials within the Brillouin Sphere. , 2014, , .		0
219	Hill Stability in the Full 3-Body Problem. Proceedings of the International Astronomical Union, 2014, 9, 134-137.	0.0	6
220	Surface Gravity Fields for Asteroids and Comets. Journal of Guidance, Control, and Dynamics, 2013, 36, 362-374.	2.8	64
221	Long-term dynamics of high area-to-mass ratio objects in high-Earth orbit. Advances in Space Research, 2013, 52, 1545-1560.	2.6	49
222	Applications of the admissible region to space-based observations. Advances in Space Research, 2013, 52, 696-704.	2.6	13
223	Recursive computation of mutual potential between two polyhedra. Celestial Mechanics and Dynamical Astronomy, 2013, 117, 245-262.	1.4	20
224	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. Icarus, 2013, 226, 663-670.	2.5	63
225	Deployment of a lander on the binary asteroid (175706) 1996 FG3, potential target of the european MarcoPolo-R sample return mission. Acta Astronautica, 2013, 89, 60-70.	3.2	20
226	Shape model and surface properties of the OSIRIS-REx target Asteroid (101955) Bennu from radar and lightcurve observations. Icarus, 2013, 226, 629-640.	2.5	186
227	Dynamic limits on planar libration-orbit coupling around an oblate primary. Celestial Mechanics and Dynamical Astronomy, 2013, 115, 365-396.	1.4	22
228	Ballistic Deployment of Science Packages on Binary Asteroids. Journal of Guidance, Control, and Dynamics, 2013, 36, 700-709.	2.8	24
229	SPIN STATE AND MOMENT OF INERTIA CHARACTERIZATION OF 4179 TOUTATIS. Astronomical Journal, 2013, 146, 95.	4.7	34
230	Fourier Coefficient Selection for Low-Thrust Control Shaping. Journal of Guidance, Control, and Dynamics, 2013, 36, 1783-1786.	2.8	1
231	Granular cohesion and fast rotators in the NEA population. , 2013, , .		1
232	Experimental demonstration of the role of cohesion in electrostatic dust lofting. Geophysical Research Letters, 2013, 40, 1038-1042.	4.0	40
233	Dynamics of levitating dust particles near asteroids and the Moon. Journal of Geophysical Research E: Planets, 2013, 118, 116-125.	3.6	47
234	A Nonlinear Observer Design for a Rigid Body in the Proximity of a Spherical Asteroid. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
235	Identifying and Quantifying Mis-Modeled Dynamics via Optimal Control Problem Distance Metrics. , 2012, , .		2
236	Periodic Orbits of a Hill-Tether Problem Originated from Collinear Points. Journal of Guidance, Control, and Dynamics, 2012, 35, 222-233.	2.8	3
237	Dynamics of a Tethered Observatory at Jupiter. Journal of Guidance, Control, and Dynamics, 2012, 35, 195-207.	2.8	4
238	Object Correlation, Maneuver Detection, and Characterization Using Control Distance Metrics. Journal of Guidance, Control, and Dynamics, 2012, 35, 1312-1325.	2.8	43
239	Computational Efficiency of Symplectic Integrators for Space Debris Orbit Propagation. , 2012, , .		1
240	Orbital Motion in Strongly Perturbed Environments. , 2012, , .		161
241	Efficiently Locating Impact and Escape Scenarios in Spacecraft Reachability Sets. , 2012, , .		2
242	Understanding and Utilizing Properties of Phase Space near a Periodic Orbit for the Jupiter Europa Orbiter. , 2012, , .		1
243	Orbit Mechanics About Asteroids and Comets. Journal of Guidance, Control, and Dynamics, 2012, 35, 987-997.	2.8	107
244	Minimum energy configurations in the N-body problem and the celestial mechanics of granular systems. Celestial Mechanics and Dynamical Astronomy, 2012, 113, 291-320.	1.4	28
245	Studies of 3D dust motion about asteroids. , 2012, , .		0
246	Analytical Nonlinear Propagation of Uncertainty in the Two-Body Problem. Journal of Guidance, Control, and Dynamics, 2012, 35, 497-509.	2.8	64
247	Correlation of Optical Observations of Earth-Orbiting Objects and Initial Orbit Determination. Journal of Guidance, Control, and Dynamics, 2012, 35, 208-221.	2.8	43
248	Long-term Dynamics of HAMR Objects in HEO. , 2012, , .		5
249	Optimal Formation Reconfiguration by Using Generating Functions: Applications to the Hill Three-Body Problem. , 2012, , .		1
250	Orbital mechanics about small bodies. Acta Astronautica, 2012, 72, 1-14.	3.2	96
251	DEM simulation of rotation-induced reshaping and disruption of rubble-pile asteroids. Icarus, 2012, 218, 876-894.	2.5	79
252	Reachability Results for Nonlinear Systems with Ellipsoidal Initial Sets. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1583-1600.	4.7	27

#	ARTICLE	IF	CITATIONS
253	Dynamic stabilization of L2 periodic orbits using attitude-orbit coupling effects. Journal of Aerospace Engineering, Sciences and Applications, 2012, 4, 73-81.	0.3	4
254	Correlation of multiple singular observations and initial state estimation by means of probability distributions of high codimension. , 2011, , .		1
255	Perturbation Theory for Hamilton's Principal Function. Journal of Guidance, Control, and Dynamics, 2011, 34, 1129-1142.	2.8	1
256	Implications of electrostatics and cohesion for asteroid surface exploration. , 2011, , .		0
257	SIMULATING ASTEROID RUBBLE PILES WITH A SELF-GRAVITATING SOFT-SPHERE DISTINCT ELEMENT METHOD MODEL. Astrophysical Journal, 2011, 727, 120.	4.5	78
258	The role of cohesive forces in particle launching on the Moon and asteroids. Planetary and Space Science, 2011, 59, 1758-1768.	1.7	96
259	Combined effect of YORP and collisions on the rotation rate of small Main Belt asteroids. Icarus, 2011, 214, 622-631.	2.5	45
260	Radar and optical observations and physical modeling of triple near-Earth Asteroid (136617) 1994 CC. Icarus, 2011, 216, 241-256.	2.5	56
261	Optimal transfers between unstable periodic orbits using invariant manifolds. Celestial Mechanics and Dynamical Astronomy, 2011, 109, 241-264.	1.4	52
262	A numerical model of cohesion in planetary rings. Icarus, 2011, 212, 719-735.	2.5	14
263	Dynamics of rotationally fissioned asteroids: Source of observed small asteroid systems. Icarus, 2011, 214, 161-178.	2.5	179
264	Radar observations and the shape of near-Earth asteroid 2008 EV5. Icarus, 2011, 212, 649-660.	2.5	77
265	Radar and photometric observations and shape modeling of contact binary near-Earth Asteroid (8567) 1996 HW1. Icarus, 2011, 214, 210-227.	2.5	46
266	Optimal reachability sets using Generalized Independent Parameters. , 2011, , .		0
267	LQR performance index distribution with uncertain boundary conditions. , 2011, , .		2
268	Orbital Targeting Using Reduced Eccentric Anomaly Low-Thrust Coefficients. Journal of Guidance, Control, and Dynamics, 2011, 34, 820-831.	2.8	14
269	Reachability set subspace computation for nonlinear systems using sampling methods. , 2011, , .		3
270	LONG-TERM STABLE EQUILIBRIA FOR SYNCHRONOUS BINARY ASTEROIDS. Astrophysical Journal Letters, 2011, 736, L19.	8.3	55

#	ARTICLE	IF	CITATIONS
271	Applications of V-Infinity Leveraging Maneuvers to Endgame Strategies for Planetary Moon Orbiters. <i>Journal of Guidance, Control, and Dynamics</i> , 2011, 34, 1298-1310.	2.8	8
272	Small-Body Postrendezvous Characterization via Slow Hyperbolic Flybys. <i>Journal of Guidance, Control, and Dynamics</i> , 2011, 34, 1815-1827.	2.8	18
273	Correlation of Optical Observations of Earth-Orbiting Objects by Means of Probability Distributions. , 2010, , .		4
274	Equivalent Average Trajectory Dynamics Using the Reduced Low-Thrust Coefficients. , 2010, , .		0
275	Circular and zero-inclination solutions for optical observations of Earth-orbiting objects. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 106, 157-182.	1.4	18
276	Secular orbit variation due to solar radiation effects: a detailed model for BYORP. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 106, 261-300.	1.4	48
277	Averaged rotational dynamics of an asteroid in tumbling rotation under the YORP torque. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 106, 301-337.	1.4	19
278	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
279	Radar observations and a physical model of contact binary Asteroid 4486 Mithra. <i>Icarus</i> , 2010, 208, 207-220.	2.5	21
280	Detailed prediction for the BYORP effect on binary near-Earth Asteroid (66391) 1999 KW4 and implications for the binary population. <i>Icarus</i> , 2010, 209, 494-509.	2.5	48
281	Scaling forces to asteroid surfaces: The role of cohesion. <i>Icarus</i> , 2010, 210, 968-984.	2.5	249
282	A perturbation theory. <i>Acta Astronautica</i> , 2010, 67, 27-37.	3.2	6
283	Formation of asteroid pairs by rotational fission. <i>Nature</i> , 2010, 466, 1085-1088.	27.8	171
284	Object Correlation, Maneuver Detection, and Maneuver Characterization using Control Effort Metrics with Uncertain Boundary Conditions and Measurements. , 2010, , .		6
285	Analytical Estimates of Gravity Field via Flybys. , 2010, , .		2
286	Interplanetary Transfers Between Halo Orbits: Connectivity Between Escape and Capture Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 803-813.	2.8	20
287	New Solar Radiation Pressure Force Model for Navigation. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1418-1428.	2.8	47
288	Numerical Method of Symplectic State Transition Matrix and Application to Fully Perturbed Earth Orbit. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2010, 53, 105-113.	0.7	1

#	ARTICLE	IF	CITATIONS
289	Series Expansion Form of an Approximate State Transition Matrix for Fully Perturbed Orbits. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pd_53-Pd_60.	0.2	0
290	Analytical reachability results for a class of nonlinear systems with ellipsoidal initial sets. , 2009, , .		0
291	Metrics on the space of bounded Keplerian orbits and space situational awareness. , 2009, , .		5
292	Reduction of Low-Thrust Continuous Controls for Trajectory Dynamics. Journal of Guidance, Control, and Dynamics, 2009, 32, 780-787.	2.8	39
293	Stability of Sun-Synchronous Orbits in the Vicinity of a Comet. Journal of Guidance, Control, and Dynamics, 2009, 32, 1550-1559.	2.8	17
294	Correlation of Optical Observations of Objects in Earth Orbit. Journal of Guidance, Control, and Dynamics, 2009, 32, 194-209.	2.8	59
295	Optimal Timing of Control-Law Updates for Unstable Systems with Continuous Control. Journal of Guidance, Control, and Dynamics, 2009, 32, 878-887.	2.8	7
296	THE EFFECT OF THE DUST SIZE DISTRIBUTION ON ASTEROID POLARIZATION. Astronomical Journal, 2009, 138, 1557-1562.	4.7	13
297	A second-order optimization algorithm using quadric control updates for multistage optimal control problems. Optimal Control Applications and Methods, 2009, 30, 525-536.	2.1	2
298	Binary asteroid orbit expansion due to continued YORP spin-up of the primary and primary surface particle motion. Icarus, 2009, 201, 135-152.	2.5	15
299	Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target. Icarus, 2009, 201, 153-166.	2.5	24
300	Stability of the planar full 2-body problem. Celestial Mechanics and Dynamical Astronomy, 2009, 104, 103-128.	1.4	94
301	Computing the effects of YORP on the spin rate distribution of the NEO population. Icarus, 2009, 202, 95-103.	2.5	37
302	Minimum energy asteroid reconfigurations and catastrophic disruptions. Planetary and Space Science, 2009, 57, 154-164.	1.7	25
303	Applied Reachability for Space Situational Awareness and Safety in Spacecraft Proximity Operations. , 2009, , .		8
304	Control of Science Orbits About Planetary Satellites. Journal of Guidance, Control, and Dynamics, 2009, 32, 223-231.	2.8	9
305	Computation and Applications of an Orbital Dynamics Symplectic State Transition Matrix. Journal of Guidance, Control, and Dynamics, 2009, 32, 1111-1123.	2.8	6
306	State Transition Matrix Approximation Using a Generalized Averaging Method. Journal of Guidance, Control, and Dynamics, 2009, 32, 1781-1794.	2.8	6

#	ARTICLE	IF	CITATIONS
307	Third-Body-Driven vs. One-Impulse Plane Changes. <i>Journal of the Astronautical Sciences</i> , 2009, 57, 545-559.	1.5	5
308	Asteroid surface probes: A low-cost approach for the in situ exploration of small solar system objects. , 2009, , .		4
309	Dynamics of Symplectic Subvolumes. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 180-201.	1.6	9
310	The Modeling and Dynamics of Small Asteroids as Physical Bodies. , 2009, , .		0
311	Dynamics and Control of Surface Exploration Robots on Asteroids. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 135-150.	1.0	8
312	Simulation and analysis of the dynamics of binary near-Earth Asteroid (66391) 1999 KW4. <i>Icarus</i> , 2008, 194, 410-435.	2.5	61
313	Effect of density inhomogeneity on YORP: The case of Itokawa. <i>Icarus</i> , 2008, 198, 125-129.	2.5	46
314	The eccentric frame decomposition of central force fields. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 100, 43-62.	1.4	1
315	Energy and stability in the Full Two Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 100, 63-91.	1.4	42
316	Rotational dynamics of a solar system body under solar radiation torques. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 101, 69-103.	1.4	33
317	On the rotation of comet Borrelly's nucleus. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008, 102, 133-147.	1.4	7
318	General dynamics in the Restricted Full Three Body Problem. <i>Acta Astronautica</i> , 2008, 62, 563-576.	3.2	30
319	Stresses in accreted planetary bodies. <i>International Journal of Solids and Structures</i> , 2008, 45, 540-550.	2.7	7
320	Multi-wavelength observations of Asteroid 2100 Ra-Shalom. <i>Icarus</i> , 2008, 193, 20-38.	2.5	34
321	Physical properties of near-Earth Asteroid (33342) 1998 WT24. <i>Icarus</i> , 2008, 195, 614-621.	2.5	24
322	Dynamics and Control for Surface Exploration of Small Bodies. , 2008, , .		21
323	Dynamically Relevant Local Coordinates for Halo Orbits. , 2008, , .		4
324	Preliminary Analysis of Space Transportation Systems with Spaceports Around Libration Points. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
325	Trajectory Control for General Solar Sails. , 2008, , .		1
326	Spacecraft Dynamics in the Vicinity of a Comet in a Rotating Frame. , 2008, , .		2
327	Characterization of Spacecraft and Debris Trajectory Stability within Binary Asteroid Systems. , 2008, , .		1
328	Io Exploration with Electrodynamic Tethers. , 2008, , .		2
329	Characterizing and navigating small bodies with imaging data. Meteoritics and Planetary Science, 2008, 43, 1049-1061.	1.6	209
330	Global Solution for the Optimal Feedback Control of the Underactuated Heisenberg System. IEEE Transactions on Automatic Control, 2008, 53, 2638-2642.	5.7	10
331	Dynamical Characterization and Stabilization of Large Gravity-Tractor Designs. Journal of Guidance, Control, and Dynamics, 2008, 31, 501-521.	2.8	18
332	Examining Groundtrack Geometry Transitions by Evaluating the Number of Longitude-Rate Zeros. Journal of Guidance, Control, and Dynamics, 2008, 31, 1516-1521.	2.8	1
333	Restricted Full Three-Body Problem: Application to Binary System 1999 KW4. Journal of Guidance, Control, and Dynamics, 2008, 31, 162-171.	2.8	43
334	Analysis of Capture Trajectories into Periodic Orbits About Libration Points. Journal of Guidance, Control, and Dynamics, 2008, 31, 1344-1351.	2.8	20
335	Periodic Orbits in Rotating Second Degree and Order Gravity Fields. Research in Astronomy and Astrophysics, 2008, 8, 108-118.	1.1	33
336	Optimal timing of control law updates for unstable systems with continuous control. , 2008, , .		1
337	Solar-Sail Navigation: Estimation of Force, Moments, and Optical Parameters. Journal of Guidance, Control, and Dynamics, 2007, 30, 660-668.	2.8	28
338	Nonlinear Semi-Analytic Methods for Trajectory Estimation. Journal of Guidance, Control, and Dynamics, 2007, 30, 1668-1676.	2.8	60
339	Boundedness of Spacecraft Hovering Under Dead-Band Control in Time-Invariant Systems. Journal of Guidance, Control, and Dynamics, 2007, 30, 601-610.	2.8	60
340	Models for the Comet Dynamical Environment. Journal of Guidance, Control, and Dynamics, 2007, 30, 1445-1454.	2.8	7
341	Dynamics of symplectic subvolumes. , 2007, , .		0
342	Regolith Migration and Sorting on Asteroid Itokawa. Science, 2007, 316, 1011-1014.	12.6	271

#	ARTICLE	IF	CITATIONS
343	Spin Rate of Asteroid (54509) 2000 PH5 Increasing Due to the YORP Effect. <i>Science</i> , 2007, 316, 274-277.	12.6	147
344	Nonlinear Semi-Analytic Methods for Spacecraft Trajectory Design, Control, and Navigation. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
345	Multiple Gravity Assists, Capture, and Escape in the Restricted Three-Body Problem. <i>SIAM Journal on Applied Dynamical Systems</i> , 2007, 6, 576-596.	1.6	73
346	Optimal motion planning for dual-spacecraft interferometry. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2007, 43, 723-737.	4.7	5
347	Fundamental Constraints on Uncertainty Evolution in Hamiltonian Systems. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 686-691.	5.7	9
348	Optimal Formation Design for Imaging and Fuel Usage. <i>Journal of Guidance, Control, and Dynamics</i> , 2007, 30, 1511-1515.	2.8	1
349	Radar observations and a physical model of Asteroid 1580 Betulia. <i>Icarus</i> , 2007, 186, 152-177.	2.5	87
350	The effect of YORP on Itokawa. <i>Icarus</i> , 2007, 188, 425-429.	2.5	65
351	The dynamical evolution of uniformly rotating asteroids subject to YORP. <i>Icarus</i> , 2007, 188, 430-450.	2.5	104
352	Physical modeling of near-Earth Asteroid (29075) 1950 DA. <i>Icarus</i> , 2007, 190, 608-621.	2.5	39
353	Rotational fission of contact binary asteroids. <i>Icarus</i> , 2007, 189, 370-385.	2.5	142
354	Stability of equilibrium points in the restricted full three-body problem. <i>Acta Astronautica</i> , 2007, 60, 141-152.	3.2	28
355	An overview of the LIDAR observations of asteroid 25143 Itokawa. <i>Advances in Space Research</i> , 2007, 40, 187-192.	2.6	18
356	The Rubble-Pile Asteroid Itokawa as Observed by Hayabusa. <i>Science</i> , 2006, 312, 1330-1334.	12.6	761
357	Optimal Control of Spacecraft Orbital Maneuvers by the Hamilton-Jacobi Theory. , 2006, , .		0
358	Realistic Models for the Comet Dynamical Environment. , 2006, , .		0
359	Polyhedral Potential and Variational Integrator Computation of the Full Two Body Problem. , 2006, , .		11
360	Nonlinear Semi-Analytic Method for Spacecraft Navigation. , 2006, , .		3

#	ARTICLE	IF	CITATIONS
361	Astrodynamic Science About Itokawa, Gravity and Ephemeris. , 2006, , .		7
362	Landmark Navigation Studies and Target Characterization in the Hayabusa Encounter with Itokawa. , 2006, , .		37
363	The Actual Dynamical Environment About Itokawa. , 2006, , .		43
364	Fundamental limits on spacecraft orbit uncertainty and distribution propagation. Journal of the Astronautical Sciences, 2006, 54, 505-523.	1.5	23
365	Binary Asteroid Observation Orbits from a Global Dynamical Perspective. SIAM Journal on Applied Dynamical Systems, 2006, 5, 252-279.	1.6	22
366	Globally Optimal Feedback Control Law of the Underactuated Heisenberg System by Generating Functions. , 2006, , .		2
367	Solving optimal feedback control problems by the Hamilton-Jacobi theory. , 2006, , .		1
368	General Dynamics in the Restricted Full Three-Body Problem. , 2006, , .		0
369	The Dynamics of NEO Binary Asteroids. Proceedings of the International Astronomical Union, 2006, 2, 177-190.	0.0	3
370	Determination of optimal feedback terminal controllers for general boundary conditions using generating functions. Automatica, 2006, 42, 869-875.	5.0	66
371	Bifurcations and dynamical evolution of eigenvalues of Hamiltonian systems. Physica D: Nonlinear Phenomena, 2006, 213, 66-75.	2.8	2
372	Relative Equilibria for General Gravity Fields in the Sphere-Restricted Full 2-Body Problem. Celestial Mechanics and Dynamical Astronomy, 2006, 94, 317-349.	1.4	53
373	Simulation of the full two rigid body problem using polyhedral mutual potential and potential derivatives approach. Celestial Mechanics and Dynamical Astronomy, 2006, 96, 317-339.	1.4	54
374	Radar and optical observations and physical modeling of near-Earth Asteroid 10115 (1992 SK). Icarus, 2006, 181, 145-155.	2.5	17
375	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. Science, 2006, 312, 1350-1353.	12.6	349
376	Radar Imaging of Binary Near-Earth Asteroid (66391) 1999 KW4. Science, 2006, 314, 1276-1280.	12.6	254
377	Fundamental constraints on uncertainty evolution in Hamiltonian systems. , 2006, , .		0
378	Nonlinear Mapping of Gaussian Statistics: Theory and Applications to Spacecraft Trajectory Design. Journal of Guidance, Control, and Dynamics, 2006, 29, 1367-1375.	2.8	164

#	ARTICLE	IF	CITATIONS
379	Solving Optimal Continuous Thrust Rendezvous Problems with Generating Functions. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 321-331.	2.8	89
380	Design of Science Orbits About Planetary Satellites: Application to Europa. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 1147-1158.	2.8	67
381	Dynamical Configuration of Binary Near-Earth Asteroid (66391) 1999 KW4. <i>Science</i> , 2006, 314, 1280-1283.	12.6	119
382	Spacecraft Formation Dynamics and Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 121-133.	2.8	41
383	Mass and Local Topography Measurements of Itokawa by Hayabusa. <i>Science</i> , 2006, 312, 1344-1347.	12.6	213
384	Solving Two-Point Boundary Value Problems Using Generating Functions: Theory and Applications to Astrodynamics. <i>Elsevier Astrodynamics Series</i> , 2006, , 53-105.	0.4	6
385	Maximizing Payload Mass Fractions of Spacecraft for Interplanetary Electric Propulsion Missions. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 822-827.	1.9	17
386	Robust Capture and Transfer Trajectories for Planetary Satellite Orbiters. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 342-353.	2.8	41
387	Relative Equilibria for General Gravity Fields in the Sphere-Restricted Full Two-Body Problem. <i>Annals of the New York Academy of Sciences</i> , 2005, 1065, 375-390.	3.8	0
388	Abrupt alteration of Asteroid 2004 MN4's spin state during its 2029 Earth flyby. <i>Icarus</i> , 2005, 178, 281-283.	2.5	44
389	Mutual Potential of Homogeneous Polyhedra. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2005, 91, 337-349.	1.4	54
390	Periodic Orbits in the Restricted Full Three-Body , 2005, , .		3
391	Control of Hovering Spacecraft Near Small Bodies: Application to Asteroid 25143 Itokawa. <i>Journal of Guidance, Control, and Dynamics</i> , 2005, 28, 343-354.	2.8	138
392	Generalized Model for Solar Sails. <i>Journal of Spacecraft and Rockets</i> , 2005, 42, 182-185.	1.9	64
393	Design of Spacecraft Formation Orbits Relative to a Stabilized Trajectory. <i>Journal of Guidance, Control, and Dynamics</i> , 2005, 28, 782-794.	2.8	17
394	Estimating Parameterized Post-Newtonian Parameters from Spacecraft Radiometric Tracking Data. <i>Journal of Spacecraft and Rockets</i> , 2005, 42, 559-568.	1.9	9
395	The Restricted Hill Full 4-Body Problem: application to spacecraft motion about binary asteroids. <i>Dynamical Systems</i> , 2005, 20, 23-44.	0.4	36
396	Radar observations of Itokawa in 2004 and improved shape estimation. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1563-1574.	1.6	24

#	ARTICLE	IF	CITATIONS
397	Effects of Orbit Variations and J2 Perturbations on a Class of Earth-Orbiting Interferometric Observatories. <i>Journal of the Astronautical Sciences</i> , 2005, 53, 147-166.	1.5	2
398	Close proximity operations at small bodies: orbiting, hovering, and hopping. , 2004, , 313-336.		12
399	Solutions of optimal feedback control problems with general boundary conditions using Hamiltonian dynamics and generating functions. , 2004, , .		9
400	Deflection of spacecraft trajectories as a new test of general relativity: Determining the parametrized post-Newtonian parameters $\hat{\gamma}^2$ and $\hat{\gamma}^3$. <i>Physical Review D</i> , 2004, 69, .	4.7	8
401	First-Order Analytical Solution for Spacecraft Motion About (433) Eros. <i>Journal of Guidance, Control, and Dynamics</i> , 2004, 27, 290-293.	2.8	11
402	Solving Relative Two-Point Boundary Value Problems: Spacecraft Formulation Flight Transfers Application. <i>Journal of Guidance, Control, and Dynamics</i> , 2004, 27, 693-704.	2.8	78
403	Interferometric Observatories in Earth Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2004, 27, 297-301.	2.8	20
404	Bounds on Rotation Periods of Disrupted Binaries in the Full 2-Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2004, 89, 127-140.	1.4	12
405	Geometric Mechanics and the Dynamics of Asteroid Pairs. <i>Annals of the New York Academy of Sciences</i> , 2004, 1017, 11-38.	3.8	41
406	Stability of Relative Equilibria in the Full Two-Body Problem. <i>Annals of the New York Academy of Sciences</i> , 2004, 1017, 81-94.	3.8	43
407	Optimal Plane Changes Using Third-Body Forces. <i>Annals of the New York Academy of Sciences</i> , 2004, 1017, 255-266.	3.8	2
408	On The Concept Of Periapsis In Hill's Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2004, 90, 165-178.	1.4	8
409	A Test of General Relativity: Estimating PPN parameters $\hat{\gamma}^3$ and $\hat{\gamma}^2$ from Spacecraft Radiometric Tracking Data. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 134, 181-183.	0.4	0
410	Evolution of NEO rotation rates due to close encounters with Earth and Venus. <i>Icarus</i> , 2004, 170, 312-323.	2.5	40
411	Numerical determination of stability regions for orbital motion in uniformly rotating second degree and order gravity fields. <i>Planetary and Space Science</i> , 2004, 52, 685-692.	1.7	93
412	Close Proximity Operations for Implementing Mitigation Strategies. , 2004, , .		11
413	The Mechanics of Moving Asteroids. , 2004, , .		39
414	Spacecraft Formation Dynamics and Design. , 2004, , .		2

#	ARTICLE	IF	CITATIONS
415	Identifying Safe Zones for Planetary Satellite Orbiters. , 2004, , .		2
416	The Dynamical Environment About Asteroid 25143 Itokawa, Target of the Hayabusa Mission. , 2004, , .		19
417	Spacecraft Descent and Translation in the Small-body Fixed Frame. , 2004, , .		9
418	Orbit Design for General Relativity Experiments: Heliocentric and Mercury-centric Cases. , 2004, , .		0
419	Radar observations of asteroid 25143 Itokawa (1998 SF36). Meteoritics and Planetary Science, 2004, 39, 407-424.	1.6	66
420	The Influence of Reactive Torques on Comet Nucleus Rotation. Celestial Mechanics and Dynamical Astronomy, 2003, 86, 249-275.	1.4	12
421	Stability of Surface Motion on a Rotating Ellipsoid. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 263-290.	1.4	51
422	High-resolution model of Asteroid 4179 Toutatis. Icarus, 2003, 161, 346-355.	2.5	99
423	Stabilizing Motion Relative to an Unstable Orbit: Applications to Spacecraft Formation Flight. Journal of Guidance, Control, and Dynamics, 2003, 26, 62-73.	2.8	93
424	Escaping Trajectories in the Hill Three-Body Problem and Applications. Journal of Guidance, Control, and Dynamics, 2003, 26, 224-232.	2.8	68
425	New Class of Optimal Plane Change Maneuvers. Journal of Guidance, Control, and Dynamics, 2003, 26, 750-757.	2.8	16
426	Statistical Analysis of Control Maneuvers in Unstable Orbital Environments. Journal of Guidance, Control, and Dynamics, 2003, 26, 758-769.	2.8	30
427	NAVIGATION OF SPACECRAFT IN UNSTABLE ORBITAL ENVIRONMENTS. , 2003, , .		2
428	Spacecraft Motion About Slowly Rotating Asteroids. Journal of Guidance, Control, and Dynamics, 2002, 25, 765-775.	2.8	57
429	Control of Hovering Spacecraft Using Altimetry. Journal of Guidance, Control, and Dynamics, 2002, 25, 786-795.	2.8	90
430	A First Order Analytical Solution for Spacecraft Motion about (433)Eros. , 2002, , .		7
431	Formation Flight with Generating Functions: Solving the Relative Boundary Value Problem. , 2002, , .		7
432	Optimal Placement of Statistical Maneuvers in an Unstable Orbital Environment. , 2002, , .		2

#	ARTICLE	IF	CITATIONS
433	Transformation of spherical harmonic coefficients to ellipsoidal harmonic coefficients. <i>Astronomy and Astrophysics</i> , 2002, 387, 1114-1122.	5.1	21
434	Determination of Shape, Gravity, and Rotational State of Asteroid 433 Eros. <i>Icarus</i> , 2002, 155, 3-17.	2.5	237
435	Evolution of Comet Nucleus Rotation. <i>Icarus</i> , 2002, 157, 205-218.	2.5	34
436	Stability of Binary Asteroids. <i>Icarus</i> , 2002, 159, 271-283.	2.5	41
437	Energy and Stress Distributions in Ellipsoids. <i>Icarus</i> , 2002, 159, 314-321.	2.5	20
438	Stability in the Full Two-Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2002, 83, 155-169.	1.4	74
439	Stability in the Full Two-Body Problem. , 2002, , 155-169.		10
440	Stability Bounds for Three-Dimensional Motion Close to Asteroids. <i>Journal of the Astronautical Sciences</i> , 2002, 50, 389-409.	1.5	41
441	The Dynamics of Formation Flight About a Stable Trajectory. <i>Journal of the Astronautical Sciences</i> , 2002, 50, 269-287.	1.5	9
442	Spacecraft Dynamics in the Vicinity of a Comet. <i>Journal of the Astronautical Sciences</i> , 2002, 50, 35-52.	1.5	60
443	Radar observations of asteroid 1998 ML14. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1225-1236.	1.6	19
444	Secular Motion in a 2nd Degree and Order-Gravity Field with no Rotation. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001, 79, 183-200.	1.4	28
445	Changes in Rotational Angular Momentum due to Gravitational Interactions between Two Finite Bodies*. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001, 81, 39-44.	1.4	22
446	Solar Sail Orbit Operations at Asteroids. <i>Journal of Spacecraft and Rockets</i> , 2001, 38, 279-286.	1.9	65
447	Influence of Unstable Manifolds on Orbit Uncertainty. <i>Journal of Guidance, Control, and Dynamics</i> , 2001, 24, 573-585.	2.8	28
448	Development of a Target Marker for Landing on Asteroids. <i>Journal of Spacecraft and Rockets</i> , 2001, 38, 601-608.	1.9	27
449	Deflection of Spacecraft Trajectories as a New Test of General Relativity. <i>Physical Review Letters</i> , 2001, 86, 2942-2945.	7.8	9
450	Stability Analysis of Planetary Satellite Orbiters: Application to the Europa Orbiter. <i>Journal of Guidance, Control, and Dynamics</i> , 2001, 24, 778-787.	2.8	105

#	ARTICLE	IF	CITATIONS
451	Changes in Rotational Angular Momentum Due to Gravitational Interactions Between Two Finite Bodies. , 2001, , 39-44.		4
452	Effects of Gravitational Interactions on Asteroid Spin States. Icarus, 2000, 147, 106-118.	2.5	87
453	Radar Observations and Physical Model of Asteroid 6489 Golevka. Icarus, 2000, 148, 37-51.	2.5	65
454	Estimating asteroid density distributions from shape and gravity information. Planetary and Space Science, 2000, 48, 965-971.	1.7	32
455	Radar Observations of Asteroid 216 Kleopatra. Science, 2000, 288, 836-839.	12.6	172
456	Radio Science Results During the NEAR-Shoemaker Spacecraft Rendezvous with Eros. Science, 2000, 289, 2085-2088.	12.6	172
457	Evaluation of the Dynamic Environment of an Asteroid: Applications to 433 Eros. Journal of Guidance, Control, and Dynamics, 2000, 23, 466-475.	2.8	167
458	The Effect of C22 on Orbit Energy and Angular Momentum. International Astronomical Union Colloquium, 1999, 172, 339-348.	0.1	2
459	Satellite Dynamics about Small Bodies: Averaged Solar Radiation Pressure Effects. Journal of the Astronautical Sciences, 1999, 47, 25-46.	1.5	60
460	The Effect of C22 on Orbit Energy and Angular Momentum. Celestial Mechanics and Dynamical Astronomy, 1999, 73, 339-348.	1.4	28
461	Deconstructing Castalia: Evaluating a Postimpact State. Icarus, 1999, 139, 383-386.	2.5	24
462	The Effect of C 22 on Orbit Energy and Angular Momentum. , 1999, , 339-348.		10
463	The Restricted Hill Four-Body Problem with Applications to the Earth"Moon"Sun System. Celestial Mechanics and Dynamical Astronomy, 1998, 70, 75-98.	1.4	65
464	Disruption of kilometre-sized asteroids by energetic collisions. Nature, 1998, 393, 437-440.	27.8	166
465	Dynamics of Orbits Close to Asteroid 4179 Toutatis. Icarus, 1998, 132, 53-79.	2.5	176
466	ROSETTA mission: satellite orbits around a cometary nucleus. Planetary and Space Science, 1998, 46, 649-671.	1.7	52
467	Debris and Sample Transport About Asteroids. , 1998, , .		3
468	Estimating the Mass of Asteroid 253 Mathilde from Tracking Data During the NEAR Flyby. Science, 1997, 278, 2106-2109.	12.6	181

#	ARTICLE	IF	CITATIONS
469	Exterior gravitation of a polyhedron derived and compared with harmonic and mascon gravitation representations of asteroid 4769 Castalia. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1997, 65, 313.	1.4	322
470	Issues of Landing on Near Earth Asteroids. , 1996, , 54.		0
471	Radar Observations of Asteroid 1620 Geographos. <i>Icarus</i> , 1996, 121, 46-66.	2.5	53
472	Orbits Close to Asteroid 4769 Castalia. <i>Icarus</i> , 1996, 121, 67-87.	2.5	260
473	Navigation for low-cost missions to small solar-system bodies. <i>Acta Astronautica</i> , 1995, 35, 211-220.	3.2	7
474	Dynamics about Uniformly Rotating Triaxial Ellipsoids: Applications to Asteroids. <i>Icarus</i> , 1994, 110, 225-238.	2.5	216
475	The restricted P + 2 body problem. <i>Acta Astronautica</i> , 1993, 29, 237-248.	3.2	21
476	Linear stability of a self-gravitating ring. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1991, 51, 83-103.	1.4	21
477	Solutions of the optimal feedback control problem using hamiltonian dynamics and generating functions. , 0, , .		5
478	Control of a satellite formation for imaging applications. , 0, , .		17
479	Optimal fuel-image motion planning for a class of dual spacecraft formations. , 0, , .		4
480	Formulation of a Hamiltonian Cauchy Problem for Solving Optimal Feedback Control Problems. , 0, , .		1
481	Optimal formation control for imaging and fuel usage with terminal imaging constraints. , 0, , .		3
482	Extended applications of generating functions to optimal feedback control problems. , 0, , .		3
483	Resonance-Averaged Solar Torque Dynamics for Tumbling Satellites. <i>Journal of Guidance, Control, and Dynamics</i> , 0, , 1-12.	2.8	1
484	A framework to estimate local atmospheric densities with reduced drag coefficient biases. <i>Space Weather</i> , 0, , .	3.7	0