Hanspeter Schaub

List of Publications by Year
in descending order

177	4,297	172457	175258
papers	citations	29 h-index	52 g-index

181	181	181	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	J2 Invariant Relative Orbits for Spacecraft Formations. Celestial Mechanics and Dynamical Astronomy, 2001, 79, 77-95.	1.4	263
2	Spacecraft Formation Flying Control Using Mean Orbit Elements. Journal of the Astronautical Sciences, 2000, 48, 69-87.	1.5	204
3	Feedback Control Law for Variable Speed Control Moment Gyros. Journal of the Astronautical Sciences, 1998, 46, 307-328.	1.5	161
4	Huber-Based Divided Difference Filtering. Journal of Guidance, Control, and Dynamics, 2007, 30, 885-891.	2.8	155
5	Impulsive Feedback Control to Establish Specific Mean Orbit Elements of Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2001, 24, 739-745.	2.8	152
6	Adaptive Control of Nonlinear Attitude Motions Realizing Linear Closed Loop Dynamics. Journal of Guidance, Control, and Dynamics, 2001, 24, 95-100.	2.8	127
7	Linear Dynamics and Stability Analysis of a Two-Craft Coulomb Tether Formation. Journal of Guidance, Control, and Dynamics, 2006, 29, 831-839.	2.8	79
8	Challenges and Prospects of Coulomb Spacecraft Formation Control. Journal of the Astronautical Sciences, 2004, 52, 169-193.	1.5	78
9	Hybrid Cartesian and Orbit Element Feedback Law for Formation Flying Spacecraft. Journal of Guidance, Control, and Dynamics, 2002, 25, 387-393.	2.8	77
10	Analytical Charge Analysis for Two- and Three-Craft Coulomb Formations. Journal of Guidance, Control, and Dynamics, 2007, 30, 1701-1710.	2.8	72
11	Input shaped large thrust maneuver with a tethered debris object. Acta Astronautica, 2014, 96, 128-137.	3.2	63
12	Geosynchronous Large Debris Reorbiter: Challenges and Prospects. Journal of the Astronautical Sciences, 2012, 59, 161-176.	1.5	56
13	Higher-Order Cayley Transforms with Applications to Attitude Representations. Journal of Guidance, Control, and Dynamics, 1997, 20, 528-534.	2.8	53
14	Cost and risk assessment for spacecraft operation decisions caused by the space debris environment. Acta Astronautica, 2015, 113, 66-79.	3.2	52
15	Multi-Sphere Method for modeling spacecraft electrostatic forces and torques. Advances in Space Research, 2013, 51, 10-20.	2.6	50
16	Formation Establishment and Reconfiguration Using Differential Elements inJ2-Perturbed Orbits. Journal of Guidance, Control, and Dynamics, 2015, 38, 1725-1740.	2.8	48
17	An Instantaneous Eigenstructure Quasivelocity Formulation for Nonlinear Multibody Dynamics. Journal of the Astronautical Sciences, 1997, 45, 279-295.	1.5	46
18	Touchless Electrostatic Three-dimensional Detumbling of Large Axi-symmetric Debris. Journal of the Astronautical Sciences, 2015, 62, 233-253.	1.5	45

#	Article	IF	Citations
19	New Penalty Functions and Optimal Control Formulation for Spacecraft Attitude Control Problems. Journal of Guidance, Control, and Dynamics, 1997, 20, 428-434.	2.8	42
20	Active space debris charging for contactless electrostatic disposal maneuvers. Advances in Space Research, 2014, 53, 110-118.	2.6	42
21	Nonsingular Attitude Filtering Using Modified Rodrigues Parameters. Journal of the Astronautical Sciences, 2009, 57, 777-791.	1.5	40
22	Relative Motion Control For Two-Spacecraft Electrostatic Orbit Corrections. Journal of Guidance, Control, and Dynamics, 2013, 36, 240-249.	2.8	40
23	Tethered towing using open-loop input-shaping and discrete thrust levels. Acta Astronautica, 2014, 105, 373-384.	3.2	39
24	Prospects and challenges of touchless electrostatic detumbling of small bodies. Advances in Space Research, 2015, 56, 557-568.	2.6	39
25	Necessary conditions for circularly-restricted static coulomb formations. Journal of the Astronautical Sciences, 2006, 54, 525-541.	1.5	32
26	Local debris congestion in the geosynchronous environment with population augmentation. Acta Astronautica, 2014, 94, 619-628.	3.2	31
27	Stabilization of Satellite Motion Relative to a Coulomb Spacecraft Formation. Journal of Guidance, Control, and Dynamics, 2005, 28, 1231-1239.	2.8	30
28	Kinematic Steering Law for Conically Constrained Torque-Limited Spacecraft Attitude Control. Journal of Guidance, Control, and Dynamics, 2018, 41, 1990-2001.	2.8	30
29	Analytic Solutions for Equal Mass Four-Craft Static Coulomb Formation. Journal of the Astronautical Sciences, 2008, 56, 17-40.	1.5	29
30	Spacecraft Attitude Stabilization Using Nonlinear Delayed Multiactuator Control and Inverse Dynamics. Journal of Guidance, Control, and Dynamics, 2013, 36, 1440-1452.	2.8	29
31	Survey of the electrostatic tractor research for reorbiting passive GEO space objects. Astrodynamics, 2018, 2, 291-305.	2.4	29
32	Invariant shape solutions of the spinning three craft Coulomb tether problem. Celestial Mechanics and Dynamical Astronomy, 2006, 96, 137-157.	1.4	28
33	Stability and control of relative equilibria for the three-spacecraft Coulomb tether problem. Acta Astronautica, 2009, 65, 738-754.	3.2	27
34	Hybrid control of orbit normal and along-track two-craft Coulomb tethers. Aerospace Science and Technology, 2009, 13, 183-191.	4.8	26
35	Effective Coulomb force modeling for spacecraft in Earth orbit plasmas. Advances in Space Research, 2014, 54, 209-220.	2.6	26
36	Prospects and Challenges for Touchless Sensing of Spacecraft Electrostatic Potential Using Electrons. IEEE Transactions on Plasma Science, 2019, 47, 3673-3681.	1.3	26

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37	Basilisk: A Flexible, Scalable and Modular Astrodynamics Simulation Framework. Journal of Aerospace Information Systems, 2020, 17, 496-507.	1.4	25
38	Spacecraft Collision Avoidance Using Coulomb Forces with Separation Distance and Rate Feedback. Journal of Guidance, Control, and Dynamics, 2008, 31, 740-750.	2.8	24
39	Collinear invariant shapes for three-spacecraft Coulomb formations. Acta Astronautica, 2012, 72, 78-89.	3.2	23
40	Orbit Boosting Maneuvers for Two-Craft Coulomb Formations. Journal of Guidance, Control, and Dynamics, 2013, 36, 74-82.	2.8	22
41	X-Ray Spectroscopy for Electrostatic Potential and Material Determination of Space Objects. IEEE Transactions on Plasma Science, 2019, 47, 3858-3866.	1.3	22
42	Optimal Reconfigurations of Two-Craft Coulomb Formation in Circular Orbits. Journal of Guidance, Control, and Dynamics, 2012, 35, 1805-1815.	2.8	21
43	Prospects of Relative Attitude Control Using Coulomb Actuation. Journal of the Astronautical Sciences, 2013, 60, 258-277.	1.5	21
44	Hybrid propulsion system for formation flying using electrostatic forces. Aerospace Science and Technology, 2010, 14, 348-355.	4.8	20
45	Nonlinear Charge Control for a Collinear Fixed-Shape Three-Craft Equilibrium. Journal of Guidance, Control, and Dynamics, 2011, 34, 359-366.	2.8	20
46	Linear stability and shape analysis of spinning three-craft Coulomb formations. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 131-148.	1.4	20
47	Attitude and vibration control with double-gimbal variable-speed control moment gyros. Acta Astronautica, 2018, 152, 740-751.	3.2	20
48	Xâ€ray Spectroscopic Determination of Electrostatic Potential and Material Composition for Spacecraft: Experimental Results. Space Weather, 2020, 18, e2019SW002342.	3.7	20
49	Stability and Reconfiguration Analysis of a Circularly Spinning Two-Craft Coulomb Tether. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1675-1686.	4.7	19
50	Electrostatically inflated gossamer space structure voltage requirements due to orbital perturbations. Acta Astronautica, 2013, 84, 109-121.	3.2	19
51	Fully Coupled Reaction Wheel Static and Dynamic Imbalance for Spacecraft Jitter Modeling. Journal of Guidance, Control, and Dynamics, 2018, 41, 1380-1388.	2.8	19
52	Contactless electrostatic detumbling of axi-symmetric GEO objects with nominal pushing or pulling. Advances in Space Research, 2018, 62, 2977-2987.	2.6	19
53	Magnetic Positive Positioning: Toward the application in space propulsion. Acta Astronautica, 2021, 187, 348-361.	3.2	19
54	Tethered Coulomb Structures: Prospects and Challenges. Journal of the Astronautical Sciences, 2009, 57, 347-368.	1.5	18

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55	Optimization of Sphere Population for Electrostatic Multi-Sphere Method. IEEE Transactions on Plasma Science, 2013, 41, 3526-3535.	1.3	18
56	Impacts of tug and debris sizes on electrostatic tractor charging performance. Advances in Space Research, 2015, 55, 630-638.	2.6	17
57	Detumbling Attitude Control Analysis Considering an Electrostatic Pusher Configuration. Journal of Guidance, Control, and Dynamics, 2019, 42, 900-909.	2.8	17
58	Forward dynamics analysis of origami-folded deployable spacecraft structures. Acta Astronautica, 2021, 186, 549-561.	3.2	17
59	Collinear Three-Craft Coulomb Formation Stability Analysis and Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 224-232.	2.8	16
60	Continuous-Time Modeling and Control Using Nonsingular Linearized Relative-Orbit Elements. Journal of Guidance, Control, and Dynamics, 2016, 39, 2605-2614.	2.8	16
61	Electrostatic Spacecraft Collision Avoidance Using Piecewise-Constant Charges. Journal of Guidance, Control, and Dynamics, 2010, 33, 510-520.	2.8	15
62	Coulomb Control of Nonequilibrium Fixed Shape Triangular Three-Vehicle Cluster. Journal of Guidance, Control, and Dynamics, 2011, 34, 259-270.	2.8	15
63	Local orbital debris flux study in the geostationary ring. Advances in Space Research, 2013, 51, 2195-2206.	2.6	15
64	Debris Rotation Analysis During Tethered Towing for Active Debris Removal. Journal of Guidance, Control, and Dynamics, 2017, 40, 1769-1778.	2.8	15
65	Inverted Pendulum Nonlinear Controllers Using Two Reaction Wheels: Design and Implementation. IEEE Access, 2020, 8, 74922-74932.	4.2	15
66	Orbit Radial Dynamic Analysis of Two-Craft Coulomb Formation at Libration Points. Journal of Guidance, Control, and Dynamics, 2014, 37, 682-691.	2.8	14
67	Fixed-axis electric sail deployment dynamics analysis using hub-mounted momentum control. Acta Astronautica, 2018, 144, 160-170.	3.2	14
68	Heterogeneous Surface Multisphere Models Using Method of Moments Foundations. Journal of Spacecraft and Rockets, 2019, 56, 1259-1266.	1.9	14
69	Orbit-nadir aligned coulomb tether reconfiguration analysis. Journal of the Astronautical Sciences, 2008, 56, 573-592.	1.5	13
70	Shadow Set Considerations for Modified Rodrigues Parameter Attitude Filtering. Journal of Guidance, Control, and Dynamics, 2014, 37, 2030-2035.	2.8	13
71	N-Impulse Formation Flying Feedback Control Using Nonsingular Element Description. Journal of Guidance, Control, and Dynamics, 2014, 37, 540-548.	2.8	13
72	Designing solar sail formations in sun-synchronous orbits for geomagnetic tail exploration. Acta Astronautica, 2015, 107, 218-233.	3.2	13

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73	Prospects of Using a Pulsed Electrostatic Tractor With Nominal Geosynchronous Conditions. IEEE Transactions on Plasma Science, 2017, 45, 1887-1897.	1.3	13
74	Experimental Results of Electron Method for Remote Spacecraft Charge Sensing. Space Weather, 2020, 18, e2019SW002341.	3.7	13
75	Impact of Electrostatic Perturbations on Proximity Operations in High Earth Orbits. Journal of Spacecraft and Rockets, 2021, 58, 1293-1302.	1.9	13
76	Nonlinear Feedback Control of a Spinning Two-Spacecraft Coulomb Virtual Structure. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2055-2067.	4.7	12
77	Three-Axis Attitude Control Using Redundant Reaction Wheels with Continuous Momentum Dumping. Journal of Guidance, Control, and Dynamics, 2015, 38, 1865-1871.	2.8	11
78	Attitude control analysis of tethered de-orbiting. Acta Astronautica, 2018, 146, 316-331.	3.2	11
79	Lyapunov Optimal Touchless Electrostatic Detumbling of Space Debris in GEO Using a Surface Multisphere Model. Journal of Spacecraft and Rockets, 2021, 58, 764-778.	1.9	11
80	Electrostatic Inflation of Membrane Space Structures. , 2010, , .		10
81	Sun-Direction Estimation Using a Partially Underdetermined Set of Coarse Sun Sensors. Journal of the Astronautical Sciences, 2014, 61, 85-106.	1.5	10
82	Drift-free solar sail formations in elliptical Sun-synchronous orbits. Acta Astronautica, 2017, 139, 201-212.	3.2	10
83	Deployment Dynamics Analysis of an Origami-Folded Spacecraft Structure with Elastic Hinges. Journal of Spacecraft and Rockets, 2022, 59, 401-420.	1.9	10
84	Adaptive control of nonlinear attitude motions realizing linear closed-loop dynamics. , 1999, , .		9
85	Closed-Loop Charged Relative Motion Experiments Simulating Constrained Orbital Motion. Journal of Guidance, Control, and Dynamics, 2010, 33, 1856-1865.	2.8	9
86	Terrestrial testbed for remote Coulomb spacecraft rotation control. International Journal of Space Science and Engineering, 2014, 2, 96.	0.1	9
87	Speed-constrained three-axes attitude control using kinematic steering. Acta Astronautica, 2018, 147, 1-8.	3.2	9
88	Multisphere Method for Flexible Conducting Space Objects: Modeling and Experiments. Journal of Spacecraft and Rockets, 2020, 57, 225-234.	1.9	9
89	Effects of Electric Potential Uncertainty on Electrostatic Tractor Relative Motion Control Equilibria. Journal of Spacecraft and Rockets, 2022, 59, 552-562.	1.9	9
90	Impacts of Hot Space Plasma and Ion Beam Emission on Electrostatic Tractor Performance. IEEE Transactions on Plasma Science, 2015, 43, 3115-3129.	1.3	8

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91	Space Weather Influence on Relative Motion Control using the Touchless Electrostatic Tractor. Journal of the Astronautical Sciences, 2016, 63, 237-262.	1.5	8
92	Remote Sensing of Spacecraft Potential at Geosynchronous Orbit using Secondary and Photo Electrons. , 2019, , .		8
93	Electrostatic Tractor Analysis Using a Measured Flux Model. Journal of Spacecraft and Rockets, 2020, 57, 207-216.	1.9	8
94	An experimental study to swing up and control a pendulum with two reaction wheels. Meccanica, 2021, 56, 981-990.	2.0	8
95	Electron-Based Touchless Potential Sensing of Shape Primitives and Differentially-Charged Spacecraft. Journal of Spacecraft and Rockets, 2021, 58, 1847-1857.	1.9	8
96	Development and characterization of the ECLIPS space environments simulation facility. Acta Astronautica, 2022, 194, 48-58.	3.2	8
97	Constrained Attitude Maneuvering via Modified-Rodrigues-Parameter-Based Motion Planning Algorithms. Journal of Spacecraft and Rockets, 2022, 59, 1342-1356.	1.9	8
98	Efficient polygonal intersection determination with applications to robotics and vision. , 2005, , .		7
99	Faster-than-natural spacecraft circumnavigation via way points. Acta Astronautica, 2016, 123, 376-386.	3.2	7
100	Modular Software Architecture for Fully Coupled Spacecraft Simulations. Journal of Aerospace Information Systems, 2018, 15, 670-683.	1.4	7
101	Spacecraft formation and orbit control using differential attitude-dependent solar radiation pressure. Advances in Space Research, 2021, 67, 3396-3408.	2.6	7
102	Geometric perspectives on fundamental solutions in the linearized satellite relative motion problem. Acta Astronautica, 2022, 190, 48-61.	3.2	7
103	Generation of Spacecraft Operations Procedures Using Deep Reinforcement Learning. Journal of Spacecraft and Rockets, 2022, 59, 611-626.	1.9	7
104	Remote Electrostatic Potential Sensing for Proximity Operations: Comparison and Fusion of Methods. Journal of Spacecraft and Rockets, 2022, 59, 1425-1436.	1.9	7
105	Stability and Reconfiguration Analysis of a Circularly Spinning 2-Craft Coulomb Tether. , 2007, , .		6
106	Establishing a Formation of Small Satellites in a Lunar Flower Constellation. Journal of the Astronautical Sciences, 2016, 63, 263-286.	1.5	6
107	Space Weather Influence on Electromagnetic Geosynchronous Debris Perturbations Using Statistical Fluxes. Space Weather, 2018, 16, 391-405.	3.7	6
108	Rapid Charged Geosynchronous Debris Perturbation Modeling of Electrodynamic Disturbances. Journal of the Astronautical Sciences, 2018, 65, 135-156.	1.5	6

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109	Improving magnetosphere in situ observations using solar sails. Advances in Space Research, 2018, 61, 74-88.	2.6	6
110	Volume Multi-Sphere-Model Development Using Electric Field Matching. Journal of the Astronautical Sciences, 2018, 65, 377-399.	1.5	6
111	General Hinged Rigid-Body Dynamics Approximating First-Order Spacecraft Solar Panel Flexing. Journal of Spacecraft and Rockets, 2018, 55, 1291-1299.	1.9	6
112	Variable Speed Control Moment Gyroscope in an Inverted Pendulum. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	6
113	Fast spacecraft solar radiation pressure modeling by ray tracing on graphics processing unit. Advances in Space Research, 2020, 65, 1951-1964.	2.6	6
114	Assessing debris strikes in spacecraft telemetry: Development and comparison of various techniques. Acta Astronautica, 2021, 181, 516-529.	3.2	6
115	Finite-Dimensional Density Representation for Aerocapture Uncertainty Quantification. , 2021, , .		6
116	Diamagnetically Enhanced Electrolysis and Phase Separation in Low Gravity. Journal of Spacecraft and Rockets, 2022, 59, 59-72.	1.9	6
117	Simulation and Uncertainty Quantification of Electron Beams in Active Spacecraft Charging Scenarios. Journal of Spacecraft and Rockets, 2022, 59, 739-750.	1.9	6
118	Constrained Guidance for Spacecraft Proximity Operations Under Electrostatic Perturbations. Journal of Spacecraft and Rockets, 2022, 59, 1304-1316.	1.9	6
119	Steered spacecraft deployment using interspacecraft Coulomb forces. , 2006, , .		5
120	Symmetric stereographic orientation parameters applied to constrained spacecraft attitude control. Journal of the Astronautical Sciences, 2007, 55, 389-405.	1.5	5
121	Out-of-plane stability analysis of collinear spinning three-craft Coulomb formations. Acta Astronautica, 2013, 88, 89-97.	3.2	5
122	General High-Altitude Orbit Corrections Using Electrostatic Tugging with Charge Control. Journal of Guidance, Control, and Dynamics, 2015, 38, 699-705.	2.8	5
123	Conjunction challenges of low-thrust geosynchronous debris removal maneuvers. Acta Astronautica, 2016, 123, 154-164.	3.2	5
124	Electrostatic spacecraft rate and attitude controlâ€"Experimental results and performance considerations. Acta Astronautica, 2016, 119, 22-33.	3.2	5
125	Consider-Filter-Based On-Orbit Coarse Sun Sensor Calibration Sensitivity. Journal of Guidance, Control, and Dynamics, 2017, 40, 1300-1303.	2.8	5
126	Preliminary Results on Optimal Establishment of Solar Sail Formations. Journal of the Astronautical Sciences, 2019, 66, 32-45.	1.5	5

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127	Hybrid Method of Remote Sensing of Electrostatic Potential for Proximity Operations. , 2020, , .		5
128	Prospects of a Hybrid Magnetic/Electrostatic Sample Container Retriever. Journal of Spacecraft and Rockets, 2020, 57, 434-445.	1.9	5
129	Centroid and Apparent Diameter Optical Navigation on Mars Orbit. Journal of Spacecraft and Rockets, 2021, 58, 1107-1119.	1.9	5
130	Flight Mechanics Feasibility Assessment for Co-Delivery of Direct-Entry Probe and Aerocapture Orbiter. Journal of Spacecraft and Rockets, 2022, 59, 19-32.	1.9	5
131	Touchless Potential Sensing of Differentially Charged Spacecraft Using Secondary Electrons. Journal of Spacecraft and Rockets, 2022, 59, 1623-1633.	1.9	5
132	Attitude Parameter Inspired Relative Motion Descriptions for Relative Orbital Motion Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 741-749.	2.8	4
133	Spacecraft Dynamics Employing a General Multi-tank and Multi-thruster Mass Depletion Formulation. Journal of the Astronautical Sciences, 2018, 65, 423-447.	1.5	4
134	Monte Carlo Tree Search Methods for the Earth-Observing Satellite Scheduling Problem. Journal of Aerospace Information Systems, 2022, 19, 70-82.	1.4	4
135	Physics-informed neural networks for gravity field modeling of the Earth and Moon. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	1.4	4
136	Longitude-dependent effects of fragmentation events in the geosynchronous orbit regime. Acta Astronautica, 2014, 105, 285-297.	3.2	3
137	Methodology for characterizing high-risk orbital debris in the geosynchronous orbit regime. Advances in Space Research, 2016, 57, 604-619.	2.6	3
138	Modular Attitude Guidance: Generating Rotational Reference Motions for Distinct Mission Profiles. Journal of Aerospace Information Systems, 2018, 15, 335-352.	1.4	3
139	Low Earth Orbit Plasma Wake Shaping and Applications to On-Orbit Proximity Operations. IEEE Transactions on Plasma Science, 2019, 47, 4760-4769.	1.3	3
140	Broad-Spectrum Electron Gun for Laboratory Simulation of Orbital Environments. , 2021, , .		3
141	Characterization of the ECLIPS Space Environments Simulation Facility. , 2021, , .		3
142	Constrained guidance for spacecraft proximity operations under electrostatic perturbations. , 2021, , .		3
143	Touchless Potential Sensing of Complex Differentially-Charged Shapes Using X-Rays. , 2022, , .		3
144	Using Plasma-Induced X-Ray Emission to Estimate Electrostatic Potentials on Nearby Space Objects. Journal of Spacecraft and Rockets, 2022, 59, 1402-1405.	1.9	3

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145	Fully coupled interface-tracking model for axisymmetric ferrohydrodynamic flows. Applied Mathematical Modelling, 2022, 111, 836-861.	4.2	3
146	Disturbance compensating control of orbit radially aligned two-craft Coulomb formation. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 445-458.	1.4	2
147	Establishment of Natural Solar Sail Formation Using Solar Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2016, 39, 1417-1425.	2.8	2
148	Geosynchronous Debris Conjunction Lead-Time Requirements for Autonomous Low-Thrust Disposal Guidance. Journal of the Astronautical Sciences, 2017, 64, 188-206.	1.5	2
149	Non-Symmetric Behavior of High Strain Composite Tape Spring Hinges for Folding Structures. , 2019, , .		2
150	Closed-Loop Software Architecture for Spacecraft Optical Navigation and Control Development. Journal of the Astronautical Sciences, 2020, 67, 1575-1599.	1.5	2
151	Study of highly perturbed spacecraft formation dynamics via approximation. Advances in Space Research, 2021, 67, 3381-3395.	2.6	2
152	Attitude Estimation with Albedo Interference on Sun Sensor Measurements. Journal of Spacecraft and Rockets, 2021, 58, 148-163.	1.9	2
153	Electron beam expansion and deflection uncertainty for active charging applications. , 2021, , .		2
154	Touchless potential sensing of complex differentially-charged shapes using secondary electrons. , 2022, , .		2
155	Co-Delivery of Multiple Small Probes to the Martian Surface. , 2022, , .		2
156	Approximating orbits in a rotating gravity field with oblateness and ellipticity perturbations. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	1.4	2
157	Convex optimization of a spacecraft stabilization with a double-gimbal variable-speed control moment gyro actuator: Geometric approach. , 2017, , .		1
158	Linear Coupled Attitude-Orbit Control Through Aerodynamic Forces. , 2018, , .		1
159	Spacecraft Electrostatic Force and Torque Expansions Yielding Appropriate Fidelity Measures. Journal of the Astronautical Sciences, 2019, 66, 46-67.	1.5	1
160	Computational Performance of Complex Spacecraft Simulations Using Back-Substitution. Journal of Aerospace Information Systems, 2019, 16, 427-436.	1.4	1
161	Rapid Modeling of Electrostatic Forces and Torques Considering Dielectrics. Journal of Spacecraft and Rockets, 2019, 56, 1680-1688.	1.9	1
162	Electrostatic Actuation within Expanded Low Earth Orbit Plasma Wakes: Experiments and Analysis. , 2019, , .		1

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163	An X-ray Spectroscopic Approach to Remote Space Object Potential Determination: Experimental Results. , 2020, , .		1
164	Charge-product control approach to electrostatic leader-follower formations in LEO plasma wakes. Advances in Space Research, 2021, 67, 3478-3488.	2.6	1
165	Flight Software Development, Migration, and Testing in Desktop and Embedded Environments. Journal of Aerospace Information Systems, 2021, 18, 157-174.	1.4	1
166	Open GLâ€“Open CL Solar Radiation Pressure Modeling with Time-Varying Spacecraft Geometries. Journal of Aerospace Information Systems, 2021, 18, 307-321.	1.4	1
167	Remote Sensing for Planar Electrostatic Characterization Using the Multi-Sphere Method. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 145-161.	0.3	1
168	Balancing differential drag with Coulomb repulsion in low earth orbit plasma wakes. Acta Astronautica, 2022, 194, 323-333.	3.2	1
169	A Basilisk-based Benchmark Analysis of Different Constrained Attitude Dynamics Planners. , 2022, , .		1
170	Spacecraft Relative Motion Dynamics and Control Using Fundamental Solution Constants. , 2022, , .		1
171	Hybrid propulsion using electrostatic forces for spacecraft swarms. , 2007, , .		0
172	Merging analytic and empirical GEO debris synchronization dynamics. Advances in Space Research, 2016, 58, 914-923.	2.6	0
173	Reply by the Authors to Y. Kim. Journal of Guidance, Control, and Dynamics, 2016, 39, 196-196.	2.8	0
174	Feasibility of Active Debris Removal Testing on the International Space Station using Free-flyers. , 2019, , .		0
175	Distributed Simulation of Heterogeneous Mission Subsystems Through the Black Lion Framework. Journal of Aerospace Information Systems, 2021, 18, 596-604.	1.4	0
176	Landing Site Selection Using a Geometrically Conforming Footprint on Hazardous Small Bodies. Journal of Spacecraft and Rockets, 0, , 1-11.	1.9	0
177	Dynamic modeling and control of a spherical pendulum with a VSCMG. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	0