

Hanspeter Schaub

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167 papers	3,115 citations	27 h-index	51 g-index
181 ext. papers	3,756 ext. citations	1.9 avg, IF	5.88 L-index

#	Paper	IF	Citations
167	Analytical Mechanics Of Space Systems 2003 ,		487
166	J2 Invariant Relative Orbits for Spacecraft Formations. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001 , 79, 77-95	1.4	209
165	Spacecraft Formation Flying Control Using Mean Orbit Elements. <i>Journal of the Astronautical Sciences</i> , 2000 , 48, 69-87	1.1	160
164	Feedback Control Law for Variable Speed Control Moment Gyros. <i>Journal of the Astronautical Sciences</i> , 1998 , 46, 307-328	1.1	127
163	Impulsive Feedback Control to Establish Specific Mean Orbit Elements of Spacecraft Formations. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 739-745	2.1	120
162	Huber-Based Divided Difference Filtering. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 885-891	2.1	106
161	Adaptive Control of Nonlinear Attitude Motions Realizing Linear Closed Loop Dynamics. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 95-100	2.1	98
160	Linear Dynamics and Stability Analysis of a Two-Craft Coulomb Tether Formation. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 831-839	2.1	70
159	Hybrid Cartesian and Orbit Element Feedback Law for Formation Flying Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 387-393	2.1	60
158	Challenges and Prospects of Coulomb Spacecraft Formation Control. <i>Journal of the Astronautical Sciences</i> , 2004 , 52, 169-193	1.1	60
157	Analytical Charge Analysis for Two- and Three-Craft Coulomb Formations. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 1701-1710	2.1	59
156	Input shaped large thrust maneuver with a tethered debris object. <i>Acta Astronautica</i> , 2014 , 96, 128-137	2.9	51
155	Analytical Mechanics of Space Systems, Second Edition 2009 ,		45
154	Higher-Order Cayley Transforms with Applications to Attitude Representations. <i>Journal of Guidance, Control, and Dynamics</i> , 1997 , 20, 528-534	2.1	44
153	Formation Establishment and Reconfiguration Using Differential Elements in J2-Perturbed Orbits. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 1725-1740	2.1	41
152	Multi-Sphere Method for modeling spacecraft electrostatic forces and torques. <i>Advances in Space Research</i> , 2013 , 51, 10-20	2.4	40
151	Geosynchronous Large Debris Reorbiter: Challenges and Prospects. <i>Journal of the Astronautical Sciences</i> , 2012 , 59, 161-176	1.1	39

150	Touchless Electrostatic Three-dimensional Detumbling of Large Axi-symmetric Debris. <i>Journal of the Astronautical Sciences</i> , 2015 , 62, 233-253	1.1	37
149	Prospects and challenges of touchless electrostatic detumbling of small bodies. <i>Advances in Space Research</i> , 2015 , 56, 557-568	2.4	36
148	Cost and risk assessment for spacecraft operation decisions caused by the space debris environment. <i>Acta Astronautica</i> , 2015 , 113, 66-79	2.9	35
147	Tethered towing using open-loop input-shaping and discrete thrust levels. <i>Acta Astronautica</i> , 2014 , 105, 373-384	2.9	34
146	Relative Motion Control For Two-Spacecraft Electrostatic Orbit Corrections. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 240-249	2.1	34
145	New Penalty Functions and Optimal Control Formulation for Spacecraft Attitude Control Problems. <i>Journal of Guidance, Control, and Dynamics</i> , 1997 , 20, 428-434	2.1	32
144	Nonsingular Attitude Filtering Using Modified Rodrigues Parameters. <i>Journal of the Astronautical Sciences</i> , 2009 , 57, 777-791	1.1	31
143	Active space debris charging for contactless electrostatic disposal maneuvers. <i>Advances in Space Research</i> , 2014 , 53, 110-118	2.4	30
142	Necessary conditions for circularly-restricted static coulomb formations. <i>Journal of the Astronautical Sciences</i> , 2006 , 54, 525-541	1.1	30
141	An Instantaneous Eigenstructure Quasivelocity Formulation for Nonlinear Multibody Dynamics. <i>Journal of the Astronautical Sciences</i> , 1997 , 45, 279-295	1.1	30
140	Local debris congestion in the geosynchronous environment with population augmentation. <i>Acta Astronautica</i> , 2014 , 94, 619-628	2.9	27
139	Analytic Solutions for Equal Mass Four-Craft Static Coulomb Formation. <i>Journal of the Astronautical Sciences</i> , 2008 , 56, 17-40	1.1	27
138	Stabilization of Satellite Motion Relative to a Coulomb Spacecraft Formation. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 1231-1239	2.1	24
137	Hybrid control of orbit normal and along-track two-craft Coulomb tethers. <i>Aerospace Science and Technology</i> , 2009 , 13, 183-191	4.9	23
136	Stability and control of relative equilibria for the three-spacecraft Coulomb tether problem. <i>Acta Astronautica</i> , 2009 , 65, 738-754	2.9	23
135	Invariant shape solutions of the spinning three craft Coulomb tether problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2006 , 96, 137-157	1.4	23
134	Spacecraft Attitude Stabilization Using Nonlinear Delayed Multiactuator Control and Inverse Dynamics. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 1440-1452	2.1	22
133	Survey of the electrostatic tractor research for reorbiting passive GEO space objects. <i>Astrodynamics</i> , 2018 , 2, 291-305	3.8	21

- 132 Collinear invariant shapes for three-spacecraft Coulomb formations. *Acta Astronautica*, **2012**, 72, 78-89 2.9 20
- 131 Effective Coulomb force modeling for spacecraft in Earth orbit plasmas. *Advances in Space Research*, **2014**, 54, 209-220 2.4 19
- 130 Nonlinear Charge Control for a Collinear Fixed-Shape Three-Craft Equilibrium. *Journal of Guidance, Control, and Dynamics*, **2011**, 34, 359-366 2.1 19
- 129 Linear stability and shape analysis of spinning three-craft Coulomb formations. *Celestial Mechanics and Dynamical Astronomy*, **2012**, 112, 131-148 1.4 18
- 128 Orbit Boosting Maneuvers for Two-Craft Coulomb Formations. *Journal of Guidance, Control, and Dynamics*, **2013**, 36, 74-82 2.1 18
- 127 Optimal Reconfigurations of Two-Craft Coulomb Formation in Circular Orbits. *Journal of Guidance, Control, and Dynamics*, **2012**, 35, 1805-1815 2.1 18
- 126 Spacecraft Collision Avoidance Using Coulomb Forces with Separation Distance and Rate Feedback. *Journal of Guidance, Control, and Dynamics*, **2008**, 31, 740-750 2.1 18
- 125 Prospects and Challenges for Touchless Sensing of Spacecraft Electrostatic Potential Using Electrons. *IEEE Transactions on Plasma Science*, **2019**, 47, 3673-3681 1.3 16
- 124 Tethered Coulomb Structures: Prospects and Challenges. *Journal of the Astronautical Sciences*, **2009**, 57, 347-368 1.1 16
- 123 Hybrid propulsion system for formation flying using electrostatic forces. *Aerospace Science and Technology*, **2010**, 14, 348-355 4.9 16
- 122 Kinematic Steering Law for Conically Constrained Torque-Limited Spacecraft Attitude Control. *Journal of Guidance, Control, and Dynamics*, **2018**, 41, 1990-2001 2.1 15
- 121 Optimization of Sphere Population for Electrostatic Multi-Sphere Method. *IEEE Transactions on Plasma Science*, **2013**, 41, 3526-3535 1.3 15
- 120 Prospects of Relative Attitude Control Using Coulomb Actuation. *Journal of the Astronautical Sciences*, **2013**, 60, 258-277 1.1 15
- 119 . *IEEE Transactions on Aerospace and Electronic Systems*, **2010**, 46, 1675-1686 3.7 15
- 118 Coulomb Control of Nonequilibrium Fixed Shape Triangular Three-Vehicle Cluster. *Journal of Guidance, Control, and Dynamics*, **2011**, 34, 259-270 2.1 14
- 117 Contactless electrostatic detumbling of axi-symmetric GEO objects with nominal pushing or pulling. *Advances in Space Research*, **2018**, 62, 2977-2987 2.4 14
- 116 Attitude and vibration control with double-gimbal variable-speed control moment gyros. *Acta Astronautica*, **2018**, 152, 740-751 2.9 14
- 115 X-Ray Spectroscopy for Electrostatic Potential and Material Determination of Space Objects. *IEEE Transactions on Plasma Science*, **2019**, 47, 3858-3866 1.3 13

114	Local orbital debris flux study in the geostationary ring. <i>Advances in Space Research</i> , 2013 , 51, 2195-2206.	2.4	13
113	Detumbling Attitude Control Analysis Considering an Electrostatic Pusher Configuration. <i>Journal of Guidance, Control, and Dynamics</i> , 2019 , 42, 900-909	2.1	13
112	Electrostatically inflated gossamer space structure voltage requirements due to orbital perturbations. <i>Acta Astronautica</i> , 2013 , 84, 109-121	2.9	12
111	Impacts of tug and debris sizes on electrostatic tractor charging performance. <i>Advances in Space Research</i> , 2015 , 55, 630-638	2.4	12
110	Electrostatic Spacecraft Collision Avoidance Using Piecewise-Constant Charges. <i>Journal of Guidance, Control, and Dynamics</i> , 2010 , 33, 510-520	2.1	12
109	Orbit-nadir aligned coulomb tether reconfiguration analysis. <i>Journal of the Astronautical Sciences</i> , 2008 , 56, 573-592	1.1	12
108	Designing solar sail formations in sun-synchronous orbits for geomagnetic tail exploration. <i>Acta Astronautica</i> , 2015 , 107, 218-233	2.9	11
107	Fully Coupled Reaction Wheel Static and Dynamic Imbalance for Spacecraft Jitter Modeling. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 1380-1388	2.1	11
106	Analytical Mechanics of Space Systems, Fourth Edition 2018 ,		11
105	Heterogeneous Surface Multisphere Models Using Method of Moments Foundations. <i>Journal of Spacecraft and Rockets</i> , 2019 , 56, 1259-1266	1.5	10
104	N-Impulse Formation Flying Feedback Control Using Nonsingular Element Description. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 540-548	2.1	10
103	Collinear Three-Craft Coulomb Formation Stability Analysis and Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 224-232	2.1	10
102	Drift-free solar sail formations in elliptical Sun-synchronous orbits. <i>Acta Astronautica</i> , 2017 , 139, 201-212.	2.9	10
101	Continuous-Time Modeling and Control Using Nonsingular Linearized Relative-Orbit Elements. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 2605-2614	2.1	10
100	X-ray Spectroscopic Determination of Electrostatic Potential and Material Composition for Spacecraft: Experimental Results. <i>Space Weather</i> , 2020 , 18, e2019SW002342	3.7	9
99	Fixed-axis electric sail deployment dynamics analysis using hub-mounted momentum control. <i>Acta Astronautica</i> , 2018 , 144, 160-170	2.9	9
98	Orbit Radial Dynamic Analysis of Two-Craft Coulomb Formation at Libration Points. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 682-691	2.1	9
97	Terrestrial testbed for remote Coulomb spacecraft rotation control. <i>International Journal of Space Science and Engineering</i> , 2014 , 2, 96	0.3	9

96	Shadow Set Considerations for Modified Rodrigues Parameter Attitude Filtering. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 2030-2035	2.1	9
95	Closed-Loop Charged Relative Motion Experiments Simulating Constrained Orbital Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2010 , 33, 1856-1865	2.1	9
94	Debris Rotation Analysis During Tethered Towing for Active Debris Removal. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1769-1778	2.1	8
93	Prospects of Using a Pulsed Electrostatic Tractor With Nominal Geosynchronous Conditions. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 1887-1897	1.3	7
92	Inverted Pendulum Nonlinear Controllers Using Two Reaction Wheels: Design and Implementation. <i>IEEE Access</i> , 2020 , 8, 74922-74932	3.5	7
91	Attitude control analysis of tethered de-orbiting. <i>Acta Astronautica</i> , 2018 , 146, 316-331	2.9	7
90	Speed-constrained three-axes attitude control using kinematic steering. <i>Acta Astronautica</i> , 2018 , 147, 1-8	2.9	7
89	Sun-Direction Estimation Using a Partially Underdetermined Set of Coarse Sun Sensors. <i>Journal of the Astronautical Sciences</i> , 2014 , 61, 85-106	1.1	7
88	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011 , 47, 2055-2067	3.7	7
87	Electrostatic Inflation of Membrane Space Structures 2010 ,		7
86	Adaptive control of nonlinear attitude motions realizing linear closed-loop dynamics 1999 ,		7
85	Experimental Results of Electron Method for Remote Spacecraft Charge Sensing. <i>Space Weather</i> , 2020 , 18, e2019SW002341	3.7	6
84	Basilisk: A Flexible, Scalable and Modular Astrodynamics Simulation Framework. <i>Journal of Aerospace Information Systems</i> , 2020 , 17, 496-507	1	6
83	Multisphere Method for Flexible Conducting Space Objects: Modeling and Experiments. <i>Journal of Spacecraft and Rockets</i> , 2020 , 57, 225-234	1.5	6
82	Rapid Charged Geosynchronous Debris Perturbation Modeling of Electrodynamic Disturbances. <i>Journal of the Astronautical Sciences</i> , 2018 , 65, 135-156	1.1	6
81	Space Weather Influence on Relative Motion Control using the Touchless Electrostatic Tractor. <i>Journal of the Astronautical Sciences</i> , 2016 , 63, 237-262	1.1	6
80	Impacts of Hot Space Plasma and Ion Beam Emission on Electrostatic Tractor Performance. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3115-3129	1.3	6
79	Efficient polygonal intersection determination with applications to robotics and vision 2005 ,		6

78	Remote Sensing of Spacecraft Potential at Geosynchronous Orbit using Secondary and Photo Electrons 2019 ,		6
77	Magnetic Positive Positioning: Toward the application in space propulsion. <i>Acta Astronautica</i> , 2021 , 187, 348-361	2.9	6
76	Three-Axis Attitude Control Using Redundant Reaction Wheels with Continuous Momentum Dumping. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 1865-1871	2.1	5
75	Space Weather Influence on Electromagnetic Geosynchronous Debris Perturbations Using Statistical Fluxes. <i>Space Weather</i> , 2018 , 16, 391-405	3.7	5
74	Out-of-plane stability analysis of collinear spinning three-craft Coulomb formations. <i>Acta Astronautica</i> , 2013 , 88, 89-97	2.9	5
73	Stability and Reconfiguration Analysis of a Circularly Spinning 2-Craft Coulomb Tether 2007 ,		5
72	Faster-than-natural spacecraft circumnavigation via way points. <i>Acta Astronautica</i> , 2016 , 123, 376-386	2.9	5
71	Improving magnetosphere in situ observations using solar sails. <i>Advances in Space Research</i> , 2018 , 61, 74-88	2.4	5
70	Volume Multi-Sphere-Model Development Using Electric Field Matching. <i>Journal of the Astronautical Sciences</i> , 2018 , 65, 377-399	1.1	5
69	Modular Software Architecture for Fully Coupled Spacecraft Simulations. <i>Journal of Aerospace Information Systems</i> , 2018 , 15, 670-683	1	5
68	Preliminary Results on Optimal Establishment of Solar Sail Formations. <i>Journal of the Astronautical Sciences</i> , 2019 , 66, 32-45	1.1	4
67	Prospects of a Hybrid Magnetic/Electrostatic Sample Container Retriever. <i>Journal of Spacecraft and Rockets</i> , 2020 , 57, 434-445	1.5	4
66	Electrostatic spacecraft rate and attitude controlExperimental results and performance considerations. <i>Acta Astronautica</i> , 2016 , 119, 22-33	2.9	4
65	General Hinged Rigid-Body Dynamics Approximating First-Order Spacecraft Solar Panel Flexing. <i>Journal of Spacecraft and Rockets</i> , 2018 , 55, 1291-1299	1.5	4
64	Consider-Filter-Based On-Orbit Coarse Sun Sensor Calibration Sensitivity. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1300-1303	2.1	4
63	Symmetric stereographic orientation parameters applied to constrained spacecraft attitude control. <i>Journal of the Astronautical Sciences</i> , 2007 , 55, 389-405	1.1	4
62	Conjunction challenges of low-thrust geosynchronous debris removal maneuvers. <i>Acta Astronautica</i> , 2016 , 123, 154-164	2.9	4
61	Forward dynamics analysis of origami-folded deployable spacecraft structures. <i>Acta Astronautica</i> , 2021 , 186, 549-561	2.9	4

60	Impact of Electrostatic Perturbations on Proximity Operations in High Earth Orbits. <i>Journal of Spacecraft and Rockets</i> , 2021 , 58, 1293-1302	1.5	4
59	Electrostatic Tractor Analysis Using a Measured Flux Model. <i>Journal of Spacecraft and Rockets</i> , 2020 , 57, 207-216	1.5	3
58	Methodology for characterizing high-risk orbital debris in the geosynchronous orbit regime. <i>Advances in Space Research</i> , 2016 , 57, 604-619	2.4	3
57	Low Earth Orbit Plasma Wake Shaping and Applications to On-Orbit Proximity Operations. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 4760-4769	1.3	3
56	Attitude Parameter Inspired Relative Motion Descriptions for Relative Orbital Motion Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 741-749	2.1	3
55	General High-Altitude Orbit Corrections Using Electrostatic Tugging with Charge Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 699-705	2.1	3
54	Longitude-dependent effects of fragmentation events in the geosynchronous orbit regime. <i>Acta Astronautica</i> , 2014 , 105, 285-297	2.9	3
53	Hybrid Method of Remote Sensing of Electrostatic Potential for Proximity Operations 2020 ,		3
52	Lyapunov Optimal Touchless Electrostatic Detumbling of Space Debris in GEO Using a Surface Multisphere Model. <i>Journal of Spacecraft and Rockets</i> , 2021 , 58, 764-778	1.5	3
51	Electron-Based Touchless Potential Sensing of Shape Primitives and Differentially-Charged Spacecraft. <i>Journal of Spacecraft and Rockets</i> , 1-11	1.5	3
50	Broad-Spectrum Electron Gun for Laboratory Simulation of Orbital Environments 2021 ,		3
49	Geosynchronous Debris Conjunction Lead-Time Requirements for Autonomous Low-Thrust Disposal Guidance. <i>Journal of the Astronautical Sciences</i> , 2017 , 64, 188-206	1.1	2
48	Establishing a Formation of Small Satellites in a Lunar Flower Constellation. <i>Journal of the Astronautical Sciences</i> , 2016 , 63, 263-286	1.1	2
47	Establishment of Natural Solar Sail Formation Using Solar Electric Propulsion. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 1417-1425	2.1	2
46	Modular Attitude Guidance: Generating Rotational Reference Motions for Distinct Mission Profiles. <i>Journal of Aerospace Information Systems</i> , 2018 , 15, 335-352	1	2
45	Variable Speed Control Moment Gyroscope in an Inverted Pendulum. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	2
44	Disturbance compensating control of orbit radially aligned two-craft Coulomb formation. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2012 , 112, 445-458	1.4	2
43	Steered spacecraft deployment using interspacecraft Coulomb forces 2006 ,		2

42	Development and characterization of the ECLIPS space environments simulation facility. <i>Acta Astronautica</i> , 2022 , 194, 48-58	2.9	2
41	Assessing debris strikes in spacecraft telemetry: Development and comparison of various techniques. <i>Acta Astronautica</i> , 2021 , 181, 516-529	2.9	2
40	Electron beam expansion and deflection uncertainty for active charging applications 2021 ,		2
39	Spacecraft Dynamics Employing a General Multi-tank and Multi-thruster Mass Depletion Formulation. <i>Journal of the Astronautical Sciences</i> , 2018 , 65, 423-447	1.1	2
38	Effects of Electric Potential Uncertainty on Electrostatic Tractor Relative Motion Control Equilibria. <i>Journal of Spacecraft and Rockets</i> , 1-11	1.5	2
37	Remote Electrostatic Potential Sensing for Proximity Operations: Comparison and Fusion of Methods. <i>Journal of Spacecraft and Rockets</i> , 1-12	1.5	2
36	Non-Symmetric Behavior of High Strain Composite Tape Spring Hinges for Folding Structures 2019 ,		1
35	Closed-Loop Software Architecture for Spacecraft Optical Navigation and Control Development. <i>Journal of the Astronautical Sciences</i> , 2020 , 67, 1575-1599	1.1	1
34	Fast spacecraft solar radiation pressure modeling by ray tracing on graphics processing unit. <i>Advances in Space Research</i> , 2020 , 65, 1951-1964	2.4	1
33	Linear Coupled Attitude-Orbit Control Through Aerodynamic Forces 2018 ,		1
32	Spacecraft Electrostatic Force and Torque Expansions Yielding Appropriate Fidelity Measures. <i>Journal of the Astronautical Sciences</i> , 2019 , 66, 46-67	1.1	1
31	A Basilisk-based Benchmark Analysis of Different Constrained Attitude Dynamics Planners 2022 ,		1
30	Simulation and Uncertainty Quantification of Electron Beams in Active Spacecraft Charging Scenarios. <i>Journal of Spacecraft and Rockets</i> , 1-12	1.5	1
29	Remote Sensing for Planar Electrostatic Characterization Using the Multi-Sphere Method. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2018 , 145-161	0.3	1
28	An X-ray Spectroscopic Approach to Remote Space Object Potential Determination: Experimental Results 2020 ,		1
27	Diamagnetically Enhanced Electrolysis and Phase Separation in Low Gravity. <i>Journal of Spacecraft and Rockets</i> , 1-13	1.5	1
26	Computational Performance of Complex Spacecraft Simulations Using Back-Substitution. <i>Journal of Aerospace Information Systems</i> , 2019 , 16, 427-436	1	1
25	Rapid Modeling of Electrostatic Forces and Torques Considering Dielectrics. <i>Journal of Spacecraft and Rockets</i> , 2019 , 56, 1680-1688	1.5	1

24	Study of highly perturbed spacecraft formation dynamics via approximation. <i>Advances in Space Research</i> , 2021 , 67, 3381-3395	2.4	1
23	Attitude Estimation with Albedo Interference on Sun Sensor Measurements. <i>Journal of Spacecraft and Rockets</i> , 2021 , 58, 148-163	1.5	1
22	Finite-Dimensional Density Representation for Aerocapture Uncertainty Quantification 2021 ,		1
21	Characterization of the ECLIPS Space Environments Simulation Facility 2021 ,		1
20	An experimental study to swing up and control a pendulum with two reaction wheels. <i>Meccanica</i> , 2021 , 56, 981-990	2.1	1
19	Centroid and Apparent Diameter Optical Navigation on Mars Orbit. <i>Journal of Spacecraft and Rockets</i> , 2021 , 58, 1107-1119	1.5	1
18	Constrained Guidance for Spacecraft Proximity Operations Under Electrostatic Perturbations. <i>Journal of Spacecraft and Rockets</i> , 1-13	1.5	1
17	Touchless Potential Sensing of Differentially Charged Spacecraft Using Secondary Electrons. <i>Journal of Spacecraft and Rockets</i> , 1-11	1.5	1
16	Approximating orbits in a rotating gravity field with oblateness and ellipticity perturbations. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2022 , 134, 1	1.4	0
15	Flight Software Development, Migration, and Testing in Desktop and Embedded Environments. <i>Journal of Aerospace Information Systems</i> , 2021 , 18, 157-174	1	0
14	Spacecraft formation and orbit control using differential attitude-dependent solar radiation pressure. <i>Advances in Space Research</i> , 2021 , 67, 3396-3408	2.4	0
13	Charge-product control approach to electrostatic leader-follower formations in LEO plasma wakes. <i>Advances in Space Research</i> , 2021 , 67, 3478-3488	2.4	0
12	Deployment Dynamics Analysis of an Origami-Folded Spacecraft Structure with Elastic Hinges. <i>Journal of Spacecraft and Rockets</i> , 1-20	1.5	0
11	Flight Mechanics Feasibility Assessment for Co-Delivery of Direct-Entry Probe and Aerocapture Orbiter. <i>Journal of Spacecraft and Rockets</i> , 1-14	1.5	0
10	Physics-informed neural networks for gravity field modeling of the Earth and Moon. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2022 , 134, 1	1.4	0
9	Using Plasma-Induced X-Ray Emission to Estimate Electrostatic Potentials on Nearby Space Objects. <i>Journal of Spacecraft and Rockets</i> , 1-4	1.5	0
8	Constrained Attitude Maneuvering via Modified-Rodrigues-Parameter-Based Motion Planning Algorithms. <i>Journal of Spacecraft and Rockets</i> , 1-15	1.5	0
7	Reply by the Authors to Y. Kim. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 196-196	2.1	

6	Landing Site Selection Using a Geometrically Conforming Footprint on Hazardous Small Bodies. <i>Journal of Spacecraft and Rockets</i> , 1-11	1.5
5	Open GL/Open CL Solar Radiation Pressure Modeling with Time-Varying Spacecraft Geometries. <i>Journal of Aerospace Information Systems</i> , 2021 , 18, 307-321	1
4	Merging analytic and empirical GEO debris synchronization dynamics. <i>Advances in Space Research</i> , 2016 , 58, 914-923	2.4
3	Distributed Simulation of Heterogeneous Mission Subsystems Through the Black Lion Framework. <i>Journal of Aerospace Information Systems</i> , 2021 , 18, 596-604	1
2	Monte Carlo Tree Search Methods for the Earth-Observing Satellite Scheduling Problem. <i>Journal of Aerospace Information Systems</i> , 1-13	1
1	Generation of Spacecraft Operations Procedures Using Deep Reinforcement Learning. <i>Journal of Spacecraft and Rockets</i> , 2022 , 59, 611-626	1.5