Hanspeter Schaub

List of Publications by Year in Descending Order

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	A Basilisk-based Benchmark Analysis of Different Constrained Attitude Dynamics Planners **2022**,		1
166	Approximating orbits in a rotating gravity field with oblateness and ellipticity perturbations. *Celestial Mechanics and Dynamical Astronomy*, **2022**, 134, 1	1.4	0
165	Development and characterization of the ECLIPS space environments simulation facility. *Acta Astronautica*, **2022**, 194, 48-58	2.9	2
164	Generation of Spacecraft Operations Procedures Using Deep Reinforcement Learning. *Journal of Spacecraft and Rockets*, **2022**, 59, 611-626	1.5	
163	Physics-informed neural networks for gravity field modeling of the Earth and Moon. *Celestial Mechanics and Dynamical Astronomy*, **2022**, 134, 1	1.4	0
162	Flight Software Development, Migration, and Testing in Desktop and Embedded Environments. *Journal of Aerospace Information Systems*, **2021**, 18, 157-174	1	0
161	Lyapunov Optimal Touchless Electrostatic Detumbling of Space Debris in GEO Using a Surface Multisphere Model. *Journal of Spacecraft and Rockets*, **2021**, 58, 764-778	1.5	3
160	Open GL Open CL Solar Radiation Pressure Modeling with Time-Varying Spacecraft Geometries. *Journal of Aerospace Information Systems*, **2021**, 18, 307-321	1	
159	Spacecraft formation and orbit control using differential attitude-dependent solar radiation pressure. *Advances in Space Research*, **2021**, 67, 3396-3408	2.4	0
158	Study of highly perturbed spacecraft formation dynamics via approximation. *Advances in Space Research*, **2021**, 67, 3381-3395	2.4	1
157	Charge-product control approach to electrostatic leader-follower formations in LEO plasma wakes. *Advances in Space Research*, **2021**, 67, 3478-3488	2.4	0
156	Assessing debris strikes in spacecraft telemetry: Development and comparison of various techniques. *Acta Astronautica*, **2021**, 181, 516-529	2.9	2
155	Attitude Estimation with Albedo Interference on Sun Sensor Measurements. *Journal of Spacecraft and Rockets*, **2021**, 58, 148-163	1.5	1
154	Broad-Spectrum Electron Gun for Laboratory Simulation of Orbital Environments **2021**,		3
153	Finite-Dimensional Density Representation for Aerocapture Uncertainty Quantification **2021**,		1
152	Characterization of the ECLIPS Space Environments Simulation Facility **2021**,		1
151	Electron beam expansion and deflection uncertainty for active charging applications **2021**,		2

150	An experimental study to swing up and control a pendulum with two reaction wheels. *Meccanica*, **2021**, 56, 981-990	2.1	1
149	Centroid and Apparent Diameter Optical Navigation on Mars Orbit. *Journal of Spacecraft and Rockets*, **2021**, 58, 1107-1119	1.5	1
148	Distributed Simulation of Heterogeneous Mission Subsystems Through the Black Lion Framework. *Journal of Aerospace Information Systems*, **2021**, 18, 596-604	1	
147	Forward dynamics analysis of origami-folded deployable spacecraft structures. *Acta Astronautica*, **2021**, 186, 549-561	2.9	4
146	Impact of Electrostatic Perturbations on Proximity Operations in High Earth Orbits. *Journal of Spacecraft and Rockets*, **2021**, 58, 1293-1302	1.5	4
145	Magnetic Positive Positioning: Toward the application in space propulsion. *Acta Astronautica*, **2021**, 187, 348-361	2.9	6
144	Experimental Results of Electron Method for Remote Spacecraft Charge Sensing. *Space Weather*, **2020**, 18, e2019SW002341	3.7	6
143	Basilisk: A Flexible, Scalable and Modular Astrodynamics Simulation Framework. *Journal of Aerospace Information Systems*, **2020**, 17, 496-507	1	6
142	Prospects of a Hybrid Magnetic/Electrostatic Sample Container Retriever. *Journal of Spacecraft and Rockets*, **2020**, 57, 434-445	1.5	4
141	Inverted Pendulum Nonlinear Controllers Using Two Reaction Wheels: Design and Implementation. *IEEE Access*, **2020**, 8, 74922-74932	3.5	7
140	Multisphere Method for Flexible Conducting Space Objects: Modeling and Experiments. *Journal of Spacecraft and Rockets*, **2020**, 57, 225-234	1.5	6
139	Closed-Loop Software Architecture for Spacecraft Optical Navigation and Control Development. *Journal of the Astronautical Sciences*, **2020**, 67, 1575-1599	1.1	1
138	X-ray Spectroscopic Determination of Electrostatic Potential and Material Composition for Spacecraft: Experimental Results. *Space Weather*, **2020**, 18, e2019SW002342	3.7	9
137	Fast spacecraft solar radiation pressure modeling by ray tracing on graphics processing unit. *Advances in Space Research*, **2020**, 65, 1951-1964	2.4	1
136	Electrostatic Tractor Analysis Using a Measured Flux Model. *Journal of Spacecraft and Rockets*, **2020** , 57, 207-216	1.5	3
135	An X-ray Spectroscopic Approach to Remote Space Object Potential Determination: Experimental Results **2020**,		1
134	Hybrid Method of Remote Sensing of Electrostatic Potential for Proximity Operations **2020**,		3
133	Non-Symmetric Behavior of High Strain Composite Tape Spring Hinges for Folding Structures **2019**,		1

132	X-Ray Spectroscopy for Electrostatic Potential and Material Determination of Space Objects. *IEEE Transactions on Plasma Science*, **2019**, 47, 3858-3866	1.3	13
131	Preliminary Results on Optimal Establishment of Solar Sail Formations. *Journal of the Astronautical Sciences*, **2019**, 66, 32-45	1.1	4
130	Prospects and Challenges for Touchless Sensing of Spacecraft Electrostatic Potential Using Electrons. *IEEE Transactions on Plasma Science*, **2019**, 47, 3673-3681	1.3	16
129	Variable Speed Control Moment Gyroscope in an Inverted Pendulum. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	2
128	Spacecraft Electrostatic Force and Torque Expansions Yielding Appropriate Fidelity Measures. *Journal of the Astronautical Sciences*, **2019**, 66, 46-67	1.1	1
127	Heterogeneous Surface Multisphere Models Using Method of Moments Foundations. *Journal of Spacecraft and Rockets*, **2019**, 56, 1259-1266	1.5	10
126	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
125	Computational Performance of Complex Spacecraft Simulations Using Back-Substitution. *Journal of Aerospace Information Systems*, **2019**, 16, 427-436	1	1
124	Rapid Modeling of Electrostatic Forces and Torques Considering Dielectrics. *Journal of Spacecraft and Rockets*, **2019**, 56, 1680-1688	1.5	1
123	Detumbling Attitude Control Analysis Considering an Electrostatic Pusher Configuration. *Journal of Guidance, Control, and Dynamics*, **2019**, 42, 900-909	2.1	13
122	Remote Sensing of Spacecraft Potential at Geosynchronous Orbit using Secondary and Photo Electrons **2019**,		6
121	Space Weather Influence on Electromagnetic Geosynchronous Debris Perturbations Using Statistical Fluxes. *Space Weather*, **2018**, 16, 391-405	3.7	5
120	Rapid Charged Geosynchronous Debris Perturbation Modeling of Electrodynamic Disturbances. *Journal of the Astronautical Sciences*, **2018**, 65, 135-156	1.1	6
119	Fully Coupled Reaction Wheel Static and Dynamic Imbalance for Spacecraft Jitter Modeling. *Journal of Guidance, Control, and Dynamics*, **2018**, 41, 1380-1388	2.1	11
118	Linear Coupled Attitude-Orbit Control Through Aerodynamic Forces **2018**,		1
117	Fixed-axis electric sail deployment dynamics analysis using hub-mounted momentum control. *Acta Astronautica*, **2018**, 144, 160-170	2.9	9
116	Attitude control analysis of tethered de-orbiting. *Acta Astronautica*, **2018**, 146, 316-331	2.9	7
115	Speed-constrained three-axes attitude control using kinematic steering. *Acta Astronautica*, **2018**, 147, 1-8	2.9	7

114	Kinematic Steering Law for Conically Constrained Torque-Limited Spacecraft Attitude Control. *Journal of Guidance, Control, and Dynamics*, **2018**, 41, 1990-2001	2.1	15
113	Modular Attitude Guidance: Generating Rotational Reference Motions for Distinct Mission Profiles. *Journal of Aerospace Information Systems*, **2018**, 15, 335-352	1	2
112	General Hinged Rigid-Body Dynamics Approximating First-Order Spacecraft Solar Panel Flexing. *Journal of Spacecraft and Rockets*, **2018**, 55, 1291-1299	1.5	4
111	Analytical Mechanics of Space Systems, Fourth Edition **2018**,		11
110	Remote Sensing for Planar Electrostatic Characterization Using the Multi-Sphere Method. *Thirty Years of Astronomical Discovery With UKIRT*, **2018**, 145-161	0.3	1
109	Improving magnetosphere in situ observations using solar sails. *Advances in Space Research*, **2018**, 61, 74-88	2.4	5
108	Volume Multi-Sphere-Model Development Using Electric Field Matching. *Journal of the Astronautical Sciences*, **2018**, 65, 377-399	1.1	5
107	Contactless electrostatic detumbling of axi-symmetric GEO objects with nominal pushing or pulling. *Advances in Space Research*, **2018**, 62, 2977-2987	2.4	14
106	Survey of the electrostatic tractor research for reorbiting passive GEO space objects. *Astrodynamics* , **2018**, 2, 291-305	3.8	21
105	Spacecraft Dynamics Employing a General Multi-tank and Multi-thruster Mass Depletion Formulation. *Journal of the Astronautical Sciences*, **2018**, 65, 423-447	1.1	2
104	Modular Software Architecture for Fully Coupled Spacecraft Simulations. *Journal of Aerospace Information Systems*, **2018**, 15, 670-683	1	5
103	Attitude and vibration control with double-gimbal variable-speed control moment gyros. *Acta Astronautica*, **2018**, 152, 740-751	2.9	14
102	Debris Rotation Analysis During Tethered Towing for Active Debris Removal. *Journal of Guidance, Control, and Dynamics*, **2017**, 40, 1769-1778	2.1	8
101	Prospects of Using a Pulsed Electrostatic Tractor With Nominal Geosynchronous Conditions. *IEEE Transactions on Plasma Science*, **2017**, 45, 1887-1897	1.3	7
100	Geosynchronous Debris Conjunction Lead-Time Requirements for Autonomous Low-Thrust Disposal Guidance. *Journal of the Astronautical Sciences*, **2017**, 64, 188-206	1.1	2
99	Drift-free solar sail formations in elliptical Sun-synchronous orbits. *Acta Astronautica*, **2017**, 139, 201-212	2.9	10
98	Consider-Filter-Based On-Orbit Coarse Sun Sensor Calibration Sensitivity. *Journal of Guidance, Control, and Dynamics*, **2017**, 40, 1300-1303	2.1	4
97	Establishing a Formation of Small Satellites in a Lunar Flower Constellation. *Journal of the Astronautical Sciences*, **2016**, 63, 263-286	1.1	2

96	Space Weather Influence on Relative Motion Control using the Touchless Electrostatic Tractor. *Journal of the Astronautical Sciences*, **2016**, 63, 237-262	1.1	6
95	Methodology for characterizing high-risk orbital debris in the geosynchronous orbit regime. *Advances in Space Research*, **2016**, 57, 604-619	2.4	3
94	Electrostatic spacecraft rate and attitude control: Experimental results and performance considerations. *Acta Astronautica*, **2016**, 119, 22-33	2.9	4
93	Reply by the Authors to Y. Kim. *Journal of Guidance, Control, and Dynamics*, **2016**, 39, 196-196	2.1	
92	Establishment of Natural Solar Sail Formation Using Solar Electric Propulsion. *Journal of Guidance, Control, and Dynamics*, **2016**, 39, 1417-1425	2.1	2
91	Conjunction challenges of low-thrust geosynchronous debris removal maneuvers. *Acta Astronautica* , **2016**, 123, 154-164	2.9	4
90	Merging analytic and empirical GEO debris synchronization dynamics. *Advances in Space Research*, **2016**, 58, 914-923	2.4	
89	Faster-than-natural spacecraft circumnavigation via way points. *Acta Astronautica*, **2016**, 123, 376-386	2.9	5
88	Continuous-Time Modeling and Control Using Nonsingular Linearized Relative-Orbit Elements. *Journal of Guidance, Control, and Dynamics*, **2016**, 39, 2605-2614	2.1	10
87	Prospects and challenges of touchless electrostatic detumbling of small bodies. *Advances in Space Research*, **2015**, 56, 557-568	2.4	36
86	Cost and risk assessment for spacecraft operation decisions caused by the space debris environment. *Acta Astronautica*, **2015**, 113, 66-79	2.9	35
85	Three-Axis Attitude Control Using Redundant Reaction Wheels with Continuous Momentum Dumping. *Journal of Guidance, Control, and Dynamics*, **2015**, 38, 1865-1871	2.1	5
84	Designing solar sail formations in sun-synchronous orbits for geomagnetic tail exploration. *Acta Astronautica*, **2015**, 107, 218-233	2.9	11
83	Touchless Electrostatic Three-dimensional Detumbling of Large Axi-symmetric Debris. *Journal of the Astronautical Sciences*, **2015**, 62, 233-253	1.1	37
82	Impacts of Hot Space Plasma and Ion Beam Emission on Electrostatic Tractor Performance. *IEEE Transactions on Plasma Science*, **2015**, 43, 3115-3129	1.3	6
81	Formation Establishment and Reconfiguration Using Differential Elements in J2-Perturbed Orbits. *Journal of Guidance, Control, and Dynamics*, **2015**, 38, 1725-1740	2.1	41
80	General High-Altitude Orbit Corrections Using Electrostatic Tugging with Charge Control. *Journal of Guidance, Control, and Dynamics*, **2015**, 38, 699-705	2.1	3
79	Impacts of tug and debris sizes on electrostatic tractor charging performance. *Advances in Space Research*, **2015**, 55, 630-638	2.4	12

78	Attitude Parameter Inspired Relative Motion Descriptions for Relative Orbital Motion Control. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 741-749	2.1	3
77	Tethered towing using open-loop input-shaping and discrete thrust levels. *Acta Astronautica*, **2014**, 105, 373-384	2.9	34
76	N-Impulse Formation Flying Feedback Control Using Nonsingular Element Description. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 540-548	2.1	10
75	Collinear Three-Craft Coulomb Formation Stability Analysis and Control. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 224-232	2.1	10
74	Orbit Radial Dynamic Analysis of Two-Craft Coulomb Formation at Libration Points. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 682-691	2.1	9
73	Local debris congestion in the geosynchronous environment with population augmentation. *Acta Astronautica*, **2014**, 94, 619-628	2.9	27
72	Terrestrial testbed for remote Coulomb spacecraft rotation control. *International Journal of Space Science and Engineering*, **2014**, 2, 96	0.3	9
71	Shadow Set Considerations for Modified Rodrigues Parameter Attitude Filtering. *Journal of Guidance, Control, and Dynamics*, **2014**, 37, 2030-2035	2.1	9
70	Sun-Direction Estimation Using a Partially Underdetermined Set of Coarse Sun Sensors. *Journal of the Astronautical Sciences*, **2014**, 61, 85-106	1.1	7
69	Longitude-dependent effects of fragmentation events in the geosynchronous orbit regime. *Acta Astronautica*, **2014**, 105, 285-297	2.9	3
68	Active space debris charging for contactless electrostatic disposal maneuvers. *Advances in Space Research*, **2014**, 53, 110-118	2.4	30
67	Input shaped large thrust maneuver with a tethered debris object. *Acta Astronautica*, **2014**, 96, 128-137	2.9	51
66	Effective Coulomb force modeling for spacecraft in Earth orbit plasmas. *Advances in Space Research* , **2014**, 54, 209-220	2.4	19
65	Optimization of Sphere Population for Electrostatic Multi-Sphere Method. *IEEE Transactions on Plasma Science*, **2013**, 41, 3526-3535	1.3	15
64	Spacecraft Attitude Stabilization Using Nonlinear Delayed Multiactuator Control and Inverse Dynamics. *Journal of Guidance, Control, and Dynamics*, **2013**, 36, 1440-1452	2.1	22
63	Relative Motion Control For Two-Spacecraft Electrostatic Orbit Corrections. *Journal of Guidance, Control, and Dynamics*, **2013**, 36, 240-249	2.1	34
62	Local orbital debris flux study in the geostationary ring. *Advances in Space Research*, **2013**, 51, 2195-2206	2.4	13
61	Multi-Sphere Method for modeling spacecraft electrostatic forces and torques. *Advances in Space Research*, **2013**, 51, 10-20	2.4	40

60	Electrostatically inflated gossamer space structure voltage requirements due to orbital perturbations. *Acta Astronautica*, **2013**, 84, 109-121	2.9	12
59	Out-of-plane stability analysis of collinear spinning three-craft Coulomb formations. *Acta Astronautica*, **2013**, 88, 89-97	2.9	5
58	Orbit Boosting Maneuvers for Two-Craft Coulomb Formations. *Journal of Guidance, Control, and Dynamics*, **2013**, 36, 74-82	2.1	18
57	Prospects of Relative Attitude Control Using Coulomb Actuation. *Journal of the Astronautical Sciences*, **2013**, 60, 258-277	1.1	15
56	Linear stability and shape analysis of spinning three-craft Coulomb formations. *Celestial Mechanics and Dynamical Astronomy*, **2012**, 112, 131-148	1.4	18
55	Geosynchronous Large Debris Reorbiter: Challenges and Prospects. *Journal of the Astronautical Sciences*, **2012**, 59, 161-176	1.1	39
54	Disturbance compensating control of orbit radially aligned two-craft Coulomb formation. *Celestial Mechanics and Dynamical Astronomy*, **2012**, 112, 445-458	1.4	2
53	Collinear invariant shapes for three-spacecraft Coulomb formations. *Acta Astronautica*, **2012**, 72, 78-89	2.9	20
52	Optimal Reconfigurations of Two-Craft Coulomb Formation in Circular Orbits. *Journal of Guidance, Control, and Dynamics*, **2012**, 35, 1805-1815	2.1	18
51	. *IEEE Transactions on Aerospace and Electronic Systems*, **2011**, 47, 2055-2067	3.7	7
50	Coulomb Control of Nonequilibrium Fixed Shape Triangular Three-Vehicle Cluster. *Journal of Guidance, Control, and Dynamics*, **2011**, 34, 259-270	2.1	14
49	Nonlinear Charge Control for a Collinear Fixed-Shape Three-Craft Equilibrium. *Journal of Guidance, Control, and Dynamics*, **2011**, 34, 359-366	2.1	19
48	Closed-Loop Charged Relative Motion Experiments Simulating Constrained Orbital Motion. *Journal of Guidance, Control, and Dynamics*, **2010**, 33, 1856-1865	2.1	9
47	. *IEEE Transactions on Aerospace and Electronic Systems*, **2010**, 46, 1675-1686	3.7	15
46	Electrostatic Spacecraft Collision Avoidance Using Piecewise-Constant Charges. *Journal of Guidance, Control, and Dynamics*, **2010**, 33, 510-520	2.1	12
45	Electrostatic Inflation of Membrane Space Structures **2010**,		7
44	Hybrid propulsion system for formation flying using electrostatic forces. *Aerospace Science and Technology*, **2010**, 14, 348-355	4.9	16
43	Hybrid control of orbit normal and along-track two-craft Coulomb tethers. *Aerospace Science and Technology*, **2009**, 13, 183-191	4.9	23

42	Stability and control of relative equilibria for the three-spacecraft Coulomb tether problem. *Acta Astronautica*, **2009**, 65, 738-754	2.9	23
41	Analytical Mechanics of Space Systems, Second Edition **2009**,		45
40	Tethered Coulomb Structures: Prospects and Challenges. *Journal of the Astronautical Sciences*, **2009**, 57, 347-368	1.1	16
39	Nonsingular Attitude Filtering Using Modified Rodrigues Parameters. *Journal of the Astronautical Sciences*, **2009**, 57, 777-791	1.1	31
38	Analytic Solutions for Equal Mass Four-Craft Static Coulomb Formation. *Journal of the Astronautical Sciences*, **2008**, 56, 17-40	1.1	27
37	Orbit-nadir aligned coulomb tether reconfiguration analysis. *Journal of the Astronautical Sciences*, **2008**, 56, 573-592	1.1	12
36	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
35	Analytical Charge Analysis for Two- and Three-Craft Coulomb Formations. *Journal of Guidance, Control, and Dynamics*, **2007**, 30, 1701-1710	2.1	59
34	Stability and Reconfiguration Analysis of a Circularly Spinning 2-Craft Coulomb Tether **2007**,		5
33	Huber-Based Divided Difference Filtering. *Journal of Guidance, Control, and Dynamics*, **2007**, 30, 885-891	2.1	106
32	Symmetric stereographic orientation parameters applied to constrained spacecraft attitude control. *Journal of the Astronautical Sciences*, **2007**, 55, 389-405	1.1	4
31	Steered spacecraft deployment using interspacecraft Coulomb forces **2006**,		2
30	Linear Dynamics and Stability Analysis of a Two-Craft Coulomb Tether Formation. *Journal of Guidance, Control, and Dynamics*, **2006**, 29, 831-839	2.1	70
29	Necessary conditions for circularly-restricted static coulomb formations. *Journal of the Astronautical Sciences*, **2006**, 54, 525-541	1.1	30
28	Invariant shape solutions of the spinning three craft Coulomb tether problem. *Celestial Mechanics and Dynamical Astronomy*, **2006**, 96, 137-157	1.4	23
27	Efficient polygonal intersection determination with applications to robotics and vision **2005**,		6
26	Stabilization of Satellite Motion Relative to a Coulomb Spacecraft Formation. *Journal of Guidance, Control, and Dynamics*, **2005**, 28, 1231-1239	2.1	24
25	Challenges and Prospects of Coulomb Spacecraft Formation Control. *Journal of the Astronautical Sciences*, **2004**, 52, 169-193	1.1	60

24	Analytical Mechanics Of Space Systems **2003**,		487
23	Hybrid Cartesian and Orbit Element Feedback Law for Formation Flying Spacecraft. *Journal of Guidance, Control, and Dynamics*, **2002**, 25, 387-393	2.1	60
22	J2 Invariant Relative Orbits for Spacecraft Formations. *Celestial Mechanics and Dynamical Astronomy*, **2001**, 79, 77-95	1.4	209
21	Impulsive Feedback Control to Establish Specific Mean Orbit Elements of Spacecraft Formations. *Journal of Guidance, Control, and Dynamics*, **2001**, 24, 739-745	2.1	120
20	Adaptive Control of Nonlinear Attitude Motions Realizing Linear Closed Loop Dynamics. *Journal of Guidance, Control, and Dynamics*, **2001**, 24, 95-100	2.1	98
19	Spacecraft Formation Flying Control Using Mean Orbit Elements. *Journal of the Astronautical Sciences*, **2000**, 48, 69-87	1.1	160
18	Adaptive control of nonlinear attitude motions realizing linear closed-loop dynamics **1999**,		7
17	Feedback Control Law for Variable Speed Control Moment Gyros. *Journal of the Astronautical Sciences*, **1998**, 46, 307-328	1.1	127
16	Higher-Order Cayley Transforms with Applications to Attitude Representations. *Journal of Guidance, Control, and Dynamics*, **1997**, 20, 528-534	2.1	44
15	New Penalty Functions and Optimal Control Formulation for Spacecraft Attitude Control Problems. *Journal of Guidance, Control, and Dynamics*, **1997**, 20, 428-434	2.1	32
14	An Instantaneous Eigenstructure Quasivelocity Formulation for Nonlinear Multibody Dynamics. *Journal of the Astronautical Sciences*, **1997**, 45, 279-295	1.1	30
13	Simulation and Uncertainty Quantification of Electron Beams in Active Spacecraft Charging Scenarios. *Journal of Spacecraft and Rockets*,1-12	1.5	1
12	Landing Site Selection Using a Geometrically Conforming Footprint on Hazardous Small Bodies. *Journal of Spacecraft and Rockets*,1-11	1.5	
11	Electron-Based Touchless Potential Sensing of Shape Primitives and Differentially-Charged Spacecraft. *Journal of Spacecraft and Rockets*,1-11	1.5	3
10	Diamagnetically Enhanced Electrolysis and Phase Separation in Low Gravity. *Journal of Spacecraft and Rockets*,1-13	1.5	1
9	Deployment Dynamics Analysis of an Origami-Folded Spacecraft Structure with Elastic Hinges. *Journal of Spacecraft and Rockets*,1-20	1.5	0
8	Flight Mechanics Feasibility Assessment for Co-Delivery of Direct-Entry Probe and Aerocapture Orbiter. *Journal of Spacecraft and Rockets*,1-14	1.5	0
7	Monte Carlo Tree Search Methods for the Earth-Observing Satellite Scheduling Problem. *Journal of Aerospace Information Systems*,1-13	1	

6	Effects of Electric Potential Uncertainty on Electrostatic Tractor Relative Motion Control Equilibria. *Journal of Spacecraft and Rockets*,1-11	1.5	2
5	Constrained Guidance for Spacecraft Proximity Operations Under Electrostatic Perturbations. *Journal of Spacecraft and Rockets*,1-13	1.5	1
4	Using Plasma-Induced X-Ray Emission to Estimate Electrostatic Potentials on Nearby Space Objects. *Journal of Spacecraft and Rockets*,1-4	1.5	0
3	Remote Electrostatic Potential Sensing for Proximity Operations: Comparison and Fusion of Methods. *Journal of Spacecraft and Rockets*,1-12	1.5	2
2	Constrained Attitude Maneuvering via Modified-Rodrigues-Parameter-Based Motion Planning Algorithms. *Journal of Spacecraft and Rockets*,1-15	1.5	0
1	Touchless Potential Sensing of Differentially Charged Spacecraft Using Secondary Electrons. *Journal of Spacecraft and Rockets*,1-11	1.5	1