Hanspeter Schaub

List of Publications by Year
in descending order

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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	Diamagnetically Enhanced Electrolysis and Phase Separation in Low Gravity. Journal of Spacecraft and Rockets, 2022, 59, 59-72.	1.9	6
2	Deployment Dynamics Analysis of an Origami-Folded Spacecraft Structure with Elastic Hinges. Journal of Spacecraft and Rockets, 2022, 59, 401-420.	1.9	10
3	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
4	Geometric perspectives on fundamental solutions in the linearized satellite relative motion problem. Acta Astronautica, 2022, 190, 48-61.	3.2	7
5	Monte Carlo Tree Search Methods for the Earth-Observing Satellite Scheduling Problem. Journal of Aerospace Information Systems, 2022, 19, 70-82.	1.4	4
6	Effects of Electric Potential Uncertainty on Electrostatic Tractor Relative Motion Control Equilibria. Journal of Spacecraft and Rockets, 2022, 59, 552-562.	1.9	9
7	Balancing differential drag with Coulomb repulsion in low earth orbit plasma wakes. Acta Astronautica, 2022, 194, 323-333.	3.2	1
8	A Basilisk-based Benchmark Analysis of Different Constrained Attitude Dynamics Planners. , 2022, , .		1
9	Touchless Potential Sensing of Complex Differentially-Charged Shapes Using X-Rays. , 2022, , .		3
10	Spacecraft Relative Motion Dynamics and Control Using Fundamental Solution Constants. , 2022, , .		1
11	Touchless potential sensing of complex differentially-charged shapes using secondary electrons. , 2022, , .		2
12	Co-Delivery of Multiple Small Probes to the Martian Surface. , 2022, , .		2
13	Approximating orbits in a rotating gravity field with oblateness and ellipticity perturbations. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	1.4	2
14	Development and characterization of the ECLIPS space environments simulation facility. Acta Astronautica, 2022, 194, 48-58.	3.2	8
15	Simulation and Uncertainty Quantification of Electron Beams in Active Spacecraft Charging Scenarios. Journal of Spacecraft and Rockets, 2022, 59, 739-750.	1.9	6
16	Generation of Spacecraft Operations Procedures Using Deep Reinforcement Learning. Journal of Spacecraft and Rockets, 2022, 59, 611-626.	1.9	7
17	Physics-informed neural networks for gravity field modeling of the Earth and Moon. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	1.4	4
18	Constrained Guidance for Spacecraft Proximity Operations Under Electrostatic Perturbations. Journal of Spacecraft and Rockets, 2022, 59, 1304-1316.	1.9	6

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19	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
20	Remote Electrostatic Potential Sensing for Proximity Operations: Comparison and Fusion of Methods. Journal of Spacecraft and Rockets, 2022, 59, 1425-1436.	1.9	7
21	Constrained Attitude Maneuvering via Modified-Rodrigues-Parameter-Based Motion Planning Algorithms. Journal of Spacecraft and Rockets, 2022, 59, 1342-1356.	1.9	8
22	Touchless Potential Sensing of Differentially Charged Spacecraft Using Secondary Electrons. Journal of Spacecraft and Rockets, 2022, 59, 1623-1633.	1.9	5
23	Fully coupled interface-tracking model for axisymmetric ferrohydrodynamic flows. Applied Mathematical Modelling, 2022, 111, 836-861.	4.2	3
24	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
25	Spacecraft formation and orbit control using differential attitude-dependent solar radiation pressure. Advances in Space Research, 2021, 67, 3396-3408.	2.6	7
26	Study of highly perturbed spacecraft formation dynamics via approximation. Advances in Space Research, 2021, 67, 3381-3395.	2.6	2
27	Charge-product control approach to electrostatic leader-follower formations in LEO plasma wakes. Advances in Space Research, 2021, 67, 3478-3488.	2.6	1
28	Assessing debris strikes in spacecraft telemetry: Development and comparison of various techniques. Acta Astronautica, 2021, 181, 516-529.	3.2	6
29	Attitude Estimation with Albedo Interference on Sun Sensor Measurements. Journal of Spacecraft and Rockets, 2021, 58, 148-163.	1.9	2
30	Broad-Spectrum Electron Gun for Laboratory Simulation of Orbital Environments. , 2021, , .		3
31	Finite-Dimensional Density Representation for Aerocapture Uncertainty Quantification. , 2021, , .		6
32	Characterization of the ECLIPS Space Environments Simulation Facility. , 2021, , .		3
33	Electron beam expansion and deflection uncertainty for active charging applications. , 2021, , .		2
34	An experimental study to swing up and control a pendulum with two reaction wheels. Meccanica, 2021, 56, 981-990.	2.0	8
35	Constrained guidance for spacecraft proximity operations under electrostatic perturbations. , 2021, , .		3
36	Flight Software Development, Migration, and Testing in Desktop and Embedded Environments. Journal of Aerospace Information Systems, 2021, 18, 157-174.	1.4	1

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37	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
38	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
39	Electron-Based Touchless Potential Sensing of Shape Primitives and Differentially-Charged Spacecraft. Journal of Spacecraft and Rockets, 2021, 58, 1847-1857.	1.9	8
40	Centroid and Apparent Diameter Optical Navigation on Mars Orbit. Journal of Spacecraft and Rockets, 2021, 58, 1107-1119.	1.9	5
41	Distributed Simulation of Heterogeneous Mission Subsystems Through the Black Lion Framework. Journal of Aerospace Information Systems, 2021, 18, 596-604.	1.4	0
42	Forward dynamics analysis of origami-folded deployable spacecraft structures. Acta Astronautica, 2021, 186, 549-561.	3.2	17
43	Impact of Electrostatic Perturbations on Proximity Operations in High Earth Orbits. Journal of Spacecraft and Rockets, 2021, 58, 1293-1302.	1.9	13
44	Magnetic Positive Positioning: Toward the application in space propulsion. Acta Astronautica, 2021, 187, 348-361.	3.2	19
45	An X-ray Spectroscopic Approach to Remote Space Object Potential Determination: Experimental Results. , 2020, , .		1
46	Hybrid Method of Remote Sensing of Electrostatic Potential for Proximity Operations. , 2020, , .		5
47	Experimental Results of Electron Method for Remote Spacecraft Charge Sensing. Space Weather, 2020, 18, e2019SW002341.	3.7	13
48	Basilisk: A Flexible, Scalable and Modular Astrodynamics Simulation Framework. Journal of Aerospace Information Systems, 2020, 17, 496-507.	1.4	25
49	Prospects of a Hybrid Magnetic/Electrostatic Sample Container Retriever. Journal of Spacecraft and Rockets, 2020, 57, 434-445.	1.9	5
50	Inverted Pendulum Nonlinear Controllers Using Two Reaction Wheels: Design and Implementation. IEEE Access, 2020, 8, 74922-74932.	4.2	15
51	Multisphere Method for Flexible Conducting Space Objects: Modeling and Experiments. Journal of Spacecraft and Rockets, 2020, 57, 225-234.	1.9	9
52	Closed-Loop Software Architecture for Spacecraft Optical Navigation and Control Development. Journal of the Astronautical Sciences, 2020, 67, 1575-1599.	1.5	2
53	Xâ€ray Spectroscopic Determination of Electrostatic Potential and Material Composition for Spacecraft: Experimental Results. Space Weather, 2020, 18, e2019SW002342.	3.7	20
54	Fast spacecraft solar radiation pressure modeling by ray tracing on graphics processing unit. Advances in Space Research, 2020, 65, 1951-1964.	2.6	6

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55	Electrostatic Tractor Analysis Using a Measured Flux Model. Journal of Spacecraft and Rockets, 2020, 57, 207-216.	1.9	8
56	Prospects and Challenges for Touchless Sensing of Spacecraft Electrostatic Potential Using Electrons. IEEE Transactions on Plasma Science, 2019, 47, 3673-3681.	1.3	26
57	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
58	Spacecraft Electrostatic Force and Torque Expansions Yielding Appropriate Fidelity Measures. Journal of the Astronautical Sciences, 2019, 66, 46-67.	1.5	1
59	Heterogeneous Surface Multisphere Models Using Method of Moments Foundations. Journal of Spacecraft and Rockets, 2019, 56, 1259-1266.	1.9	14
60	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
61	Non-Symmetric Behavior of High Strain Composite Tape Spring Hinges for Folding Structures. , 2019, , .		2
62	X-Ray Spectroscopy for Electrostatic Potential and Material Determination of Space Objects. IEEE Transactions on Plasma Science, 2019, 47, 3858-3866.	1.3	22
63	Preliminary Results on Optimal Establishment of Solar Sail Formations. Journal of the Astronautical Sciences, 2019, 66, 32-45.	1.5	5
64	Computational Performance of Complex Spacecraft Simulations Using Back-Substitution. Journal of Aerospace Information Systems, 2019, 16, 427-436.	1.4	1
65	Rapid Modeling of Electrostatic Forces and Torques Considering Dielectrics. Journal of Spacecraft and Rockets, 2019, 56, 1680-1688.	1.9	1
66	Detumbling Attitude Control Analysis Considering an Electrostatic Pusher Configuration. Journal of Guidance, Control, and Dynamics, 2019, 42, 900-909.	2.8	17
67	Electrostatic Actuation within Expanded Low Earth Orbit Plasma Wakes: Experiments and Analysis. , 2019, , .		1
68	Remote Sensing of Spacecraft Potential at Geosynchronous Orbit using Secondary and Photo Electrons. , 2019, , .		8
69	Feasibility of Active Debris Removal Testing on the International Space Station using Free-flyers. , 2019, , .		0
70	Space Weather Influence on Electromagnetic Geosynchronous Debris Perturbations Using Statistical Fluxes. Space Weather, 2018, 16, 391-405.	3.7	6
71	Rapid Charged Geosynchronous Debris Perturbation Modeling of Electrodynamic Disturbances. Journal of the Astronautical Sciences, 2018, 65, 135-156.	1.5	6
72	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

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73	Linear Coupled Attitude-Orbit Control Through Aerodynamic Forces. , 2018, , .		1
74	Fixed-axis electric sail deployment dynamics analysis using hub-mounted momentum control. Acta Astronautica, 2018, 144, 160-170.	3.2	14
75	Attitude control analysis of tethered de-orbiting. Acta Astronautica, 2018, 146, 316-331.	3.2	11
76	Speed-constrained three-axes attitude control using kinematic steering. Acta Astronautica, 2018, 147, 1-8.	3.2	9
77	Improving magnetosphere in situ observations using solar sails. Advances in Space Research, 2018, 61, 74-88.	2.6	6
78	Volume Multi-Sphere-Model Development Using Electric Field Matching. Journal of the Astronautical Sciences, 2018, 65, 377-399.	1.5	6
79	Contactless electrostatic detumbling of axi-symmetric GEO objects with nominal pushing or pulling. Advances in Space Research, 2018, 62, 2977-2987.	2.6	19
80	Survey of the electrostatic tractor research for reorbiting passive GEO space objects. Astrodynamics, 2018, 2, 291-305.	2.4	29
81	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
82	Modular Software Architecture for Fully Coupled Spacecraft Simulations. Journal of Aerospace Information Systems, 2018, 15, 670-683.	1.4	7
83	Attitude and vibration control with double-gimbal variable-speed control moment gyros. Acta Astronautica, 2018, 152, 740-751.	3.2	20
84	Kinematic Steering Law for Conically Constrained Torque-Limited Spacecraft Attitude Control. Journal of Guidance, Control, and Dynamics, 2018, 41, 1990-2001.	2.8	30
85	Modular Attitude Guidance: Generating Rotational Reference Motions for Distinct Mission Profiles. Journal of Aerospace Information Systems, 2018, 15, 335-352.	1.4	3
86	General Hinged Rigid-Body Dynamics Approximating First-Order Spacecraft Solar Panel Flexing. Journal of Spacecraft and Rockets, 2018, 55, 1291-1299.	1.9	6
87	Remote Sensing for Planar Electrostatic Characterization Using the Multi-Sphere Method. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 145-161.	0.3	1
88	Debris Rotation Analysis During Tethered Towing for Active Debris Removal. Journal of Guidance, Control, and Dynamics, 2017, 40, 1769-1778.	2.8	15
89	Prospects of Using a Pulsed Electrostatic Tractor With Nominal Geosynchronous Conditions. IEEE Transactions on Plasma Science, 2017, 45, 1887-1897.	1.3	13
90	Geosynchronous Debris Conjunction Lead-Time Requirements for Autonomous Low-Thrust Disposal Guidance. Journal of the Astronautical Sciences, 2017, 64, 188-206.	1.5	2

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91	Drift-free solar sail formations in elliptical Sun-synchronous orbits. Acta Astronautica, 2017, 139, 201-212.	3.2	10
92	Consider-Filter-Based On-Orbit Coarse Sun Sensor Calibration Sensitivity. Journal of Guidance, Control, and Dynamics, 2017, 40, 1300-1303.	2.8	5
93	Convex optimization of a spacecraft stabilization with a double-gimbal variable-speed control moment gyro actuator: Geometric approach. , 2017, , .		1
94	Conjunction challenges of low-thrust geosynchronous debris removal maneuvers. Acta Astronautica, 2016, 123, 154-164.	3.2	5
95	Merging analytic and empirical GEO debris synchronization dynamics. Advances in Space Research, 2016, 58, 914-923.	2.6	0
96	Faster-than-natural spacecraft circumnavigation via way points. Acta Astronautica, 2016, 123, 376-386.	3.2	7
97	Continuous-Time Modeling and Control Using Nonsingular Linearized Relative-Orbit Elements. Journal of Guidance, Control, and Dynamics, 2016, 39, 2605-2614.	2.8	16
98	Establishing a Formation of Small Satellites in a Lunar Flower Constellation. Journal of the Astronautical Sciences, 2016, 63, 263-286.	1.5	6
99	Space Weather Influence on Relative Motion Control using the Touchless Electrostatic Tractor. Journal of the Astronautical Sciences, 2016, 63, 237-262.	1.5	8
100	Methodology for characterizing high-risk orbital debris in the geosynchronous orbit regime. Advances in Space Research, 2016, 57, 604-619.	2.6	3
101	Electrostatic spacecraft rate and attitude controlâ€"Experimental results and performance considerations. Acta Astronautica, 2016, 119, 22-33.	3.2	5
102	Reply by the Authors to Y. Kim. Journal of Guidance, Control, and Dynamics, 2016, 39, 196-196.	2.8	0
103	Establishment of Natural Solar Sail Formation Using Solar Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2016, 39, 1417-1425.	2.8	2
104	Touchless Electrostatic Three-dimensional Detumbling of Large Axi-symmetric Debris. Journal of the Astronautical Sciences, 2015, 62, 233-253.	1.5	45
105	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
106	Formation Establishment and Reconfiguration Using Differential Elements inJ2-Perturbed Orbits. Journal of Guidance, Control, and Dynamics, 2015, 38, 1725-1740.	2.8	48
107	General High-Altitude Orbit Corrections Using Electrostatic Tugging with Charge Control. Journal of Guidance, Control, and Dynamics, 2015, 38, 699-705.	2.8	5
108	Impacts of tug and debris sizes on electrostatic tractor charging performance. Advances in Space Research, 2015, 55, 630-638.	2.6	17

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109	Prospects and challenges of touchless electrostatic detumbling of small bodies. Advances in Space Research, 2015, 56, 557-568.	2.6	39
110	Cost and risk assessment for spacecraft operation decisions caused by the space debris environment. Acta Astronautica, 2015, 113, 66-79.	3.2	52
111	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
112	Designing solar sail formations in sun-synchronous orbits for geomagnetic tail exploration. Acta Astronautica, 2015, 107, 218-233.	3.2	13
113	Shadow Set Considerations for Modified Rodrigues Parameter Attitude Filtering. Journal of Guidance, Control, and Dynamics, 2014, 37, 2030-2035.	2.8	13
114	Sun-Direction Estimation Using a Partially Underdetermined Set of Coarse Sun Sensors. Journal of the Astronautical Sciences, 2014, 61, 85-106.	1.5	10
115	Longitude-dependent effects of fragmentation events in the geosynchronous orbit regime. Acta Astronautica, 2014, 105, 285-297.	3.2	3
116	Active space debris charging for contactless electrostatic disposal maneuvers. Advances in Space Research, 2014, 53, 110-118.	2.6	42
117	Input shaped large thrust maneuver with a tethered debris object. Acta Astronautica, 2014, 96, 128-137.	3.2	63
118	Effective Coulomb force modeling for spacecraft in Earth orbit plasmas. Advances in Space Research, 2014, 54, 209-220.	2.6	26
119	Attitude Parameter Inspired Relative Motion Descriptions for Relative Orbital Motion Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 741-749.	2.8	4
120	Tethered towing using open-loop input-shaping and discrete thrust levels. Acta Astronautica, 2014, 105, 373-384.	3.2	39
121	N-Impulse Formation Flying Feedback Control Using Nonsingular Element Description. Journal of Guidance, Control, and Dynamics, 2014, 37, 540-548.	2.8	13
122	Collinear Three-Craft Coulomb Formation Stability Analysis and Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 224-232.	2.8	16
123	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
124	Local debris congestion in the geosynchronous environment with population augmentation. Acta Astronautica, 2014, 94, 619-628.	3.2	31
125	Terrestrial testbed for remote Coulomb spacecraft rotation control. International Journal of Space Science and Engineering, 2014, 2, 96.	0.1	9
126	Optimization of Sphere Population for Electrostatic Multi-Sphere Method. IEEE Transactions on Plasma Science, 2013, 41, 3526-3535.	1.3	18

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127	Spacecraft Attitude Stabilization Using Nonlinear Delayed Multiactuator Control and Inverse Dynamics. Journal of Guidance, Control, and Dynamics, 2013, 36, 1440-1452.	2.8	29
128	Relative Motion Control For Two-Spacecraft Electrostatic Orbit Corrections. Journal of Guidance, Control, and Dynamics, 2013, 36, 240-249.	2.8	40
129	Local orbital debris flux study in the geostationary ring. Advances in Space Research, 2013, 51, 2195-2206.	2.6	15
130	Multi-Sphere Method for modeling spacecraft electrostatic forces and torques. Advances in Space Research, 2013, 51, 10-20.	2.6	50
131	Electrostatically inflated gossamer space structure voltage requirements due to orbital perturbations. Acta Astronautica, 2013, 84, 109-121.	3.2	19
132	Out-of-plane stability analysis of collinear spinning three-craft Coulomb formations. Acta Astronautica, 2013, 88, 89-97.	3.2	5
133	Orbit Boosting Maneuvers for Two-Craft Coulomb Formations. Journal of Guidance, Control, and Dynamics, 2013, 36, 74-82.	2.8	22
134	Prospects of Relative Attitude Control Using Coulomb Actuation. Journal of the Astronautical Sciences, 2013, 60, 258-277.	1.5	21
135	Optimal Reconfigurations of Two-Craft Coulomb Formation in Circular Orbits. Journal of Guidance, Control, and Dynamics, 2012, 35, 1805-1815.	2.8	21
136	Geosynchronous Large Debris Reorbiter: Challenges and Prospects. Journal of the Astronautical Sciences, 2012, 59, 161-176.	1.5	56
137	Disturbance compensating control of orbit radially aligned two-craft Coulomb formation. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 445-458.	1.4	2
138	Collinear invariant shapes for three-spacecraft Coulomb formations. Acta Astronautica, 2012, 72, 78-89.	3.2	23
139	Linear stability and shape analysis of spinning three-craft Coulomb formations. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 131-148.	1.4	20
140	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
141	Coulomb Control of Nonequilibrium Fixed Shape Triangular Three-Vehicle Cluster. Journal of Guidance, Control, and Dynamics, 2011, 34, 259-270.	2.8	15
142	Nonlinear Charge Control for a Collinear Fixed-Shape Three-Craft Equilibrium. Journal of Guidance, Control, and Dynamics, 2011, 34, 359-366.	2.8	20
143	Electrostatic Inflation of Membrane Space Structures. , 2010, , .		10
144	Hybrid propulsion system for formation flying using electrostatic forces. Aerospace Science and Technology, 2010, 14, 348-355.	4.8	20

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145	Closed-Loop Charged Relative Motion Experiments Simulating Constrained Orbital Motion. Journal of Guidance, Control, and Dynamics, 2010, 33, 1856-1865.	2.8	9
146	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
147	Electrostatic Spacecraft Collision Avoidance Using Piecewise-Constant Charges. Journal of Guidance, Control, and Dynamics, 2010, 33, 510-520.	2.8	15
148	Hybrid control of orbit normal and along-track two-craft Coulomb tethers. Aerospace Science and Technology, 2009, 13, 183-191.	4.8	26
149	Stability and control of relative equilibria for the three-spacecraft Coulomb tether problem. Acta Astronautica, 2009, 65, 738-754.	3.2	27
150	Tethered Coulomb Structures: Prospects and Challenges. Journal of the Astronautical Sciences, 2009, 57, 347-368.	1.5	18
151	Nonsingular Attitude Filtering Using Modified Rodrigues Parameters. Journal of the Astronautical Sciences, 2009, 57, 777-791.	1.5	40
152	Analytic Solutions for Equal Mass Four-Craft Static Coulomb Formation. Journal of the Astronautical Sciences, 2008, 56, 17-40.	1.5	29
153	Orbit-nadir aligned coulomb tether reconfiguration analysis. Journal of the Astronautical Sciences, 2008, 56, 573-592.	1.5	13
154	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
155	Analytical Charge Analysis for Two- and Three-Craft Coulomb Formations. Journal of Guidance, Control, and Dynamics, 2007, 30, 1701-1710.	2.8	72
156	Stability and Reconfiguration Analysis of a Circularly Spinning 2-Craft Coulomb Tether. , 2007, , .		6
157	Huber-Based Divided Difference Filtering. Journal of Guidance, Control, and Dynamics, 2007, 30, 885-891.	2.8	155
158	Symmetric stereographic orientation parameters applied to constrained spacecraft attitude control. Journal of the Astronautical Sciences, 2007, 55, 389-405.	1.5	5
159	Hybrid propulsion using electrostatic forces for spacecraft swarms. , 2007, , .		0
160	Necessary conditions for circularly-restricted static coulomb formations. Journal of the Astronautical Sciences, 2006, 54, 525-541.	1.5	32
161	Invariant shape solutions of the spinning three craft Coulomb tether problem. Celestial Mechanics and Dynamical Astronomy, 2006, 96, 137-157.	1.4	28
162	Steered spacecraft deployment using interspacecraft Coulomb forces. , 2006, , .		5

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163	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
164	Stabilization of Satellite Motion Relative to a Coulomb Spacecraft Formation. Journal of Guidance, Control, and Dynamics, 2005, 28, 1231-1239.	2.8	30
165	Efficient polygonal intersection determination with applications to robotics and vision. , 2005, , .		7
166	Challenges and Prospects of Coulomb Spacecraft Formation Control. Journal of the Astronautical Sciences, 2004, 52, 169-193.	1.5	78
167	Hybrid Cartesian and Orbit Element Feedback Law for Formation Flying Spacecraft. Journal of Guidance, Control, and Dynamics, 2002, 25, 387-393.	2.8	77
168	Adaptive Control of Nonlinear Attitude Motions Realizing Linear Closed Loop Dynamics. Journal of Guidance, Control, and Dynamics, 2001, 24, 95-100.	2.8	127
169	J2 Invariant Relative Orbits for Spacecraft Formations. Celestial Mechanics and Dynamical Astronomy, 2001, 79, 77-95.	1.4	263
170	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
171	Spacecraft Formation Flying Control Using Mean Orbit Elements. Journal of the Astronautical Sciences, 2000, 48, 69-87.	1.5	204
172	Adaptive control of nonlinear attitude motions realizing linear closed-loop dynamics. , 1999, , .		9
173	Feedback Control Law for Variable Speed Control Moment Gyros. Journal of the Astronautical Sciences, 1998, 46, 307-328.	1.5	161
174	Higher-Order Cayley Transforms with Applications to Attitude Representations. Journal of Guidance, Control, and Dynamics, 1997, 20, 528-534.	2.8	53
175	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
176	An Instantaneous Eigenstructure Quasivelocity Formulation for Nonlinear Multibody Dynamics. Journal of the Astronautical Sciences, 1997, 45, 279-295.	1.5	46
177	Landing Site Selection Using a Geometrically Conforming Footprint on Hazardous Small Bodies. Journal of Spacecraft and Rockets, 0, , 1-11.	1.9	0