

Xiucong Sun

List of Publications by Year in descending order

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32
papers

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docs citations

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times ranked

149
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical maintenance strategies for teardrop hovering formation relative to elliptical orbit. <i>Acta Astronautica</i> , 2022, 190, 176-193.	3.2	2
2	Geolocation of Formation-Flying Spacecraft Using Relative Position Vector Measurements. <i>Journal of Guidance, Control, and Dynamics</i> , 2022, 45, 764-773.	2.8	2
3	Low-thrust Lambert transfer based on two-stage constant-vector thrust control method. <i>Nonlinear Dynamics</i> , 2022, 110, 313-346.	5.2	1
4	Dual-channel LIDAR searching, positioning, tracking and landing system for rotorcraft from ships at sea. <i>Journal of Navigation</i> , 2022, 75, 901-927.	1.7	2
5	On the Feasibility of Orbit Determination From Gravity Gradient Invariants. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021, 57, 263-277.	4.7	3
6	Linearization method for constant thrust control. <i>Journal of Physics: Conference Series</i> , 2021, 1786, 012020.	0.4	0
7	Linear transfer guidance based on Lyapunov method. <i>Journal of Physics: Conference Series</i> , 2021, 1786, 012055.	0.4	1
8	Optimization of low-thrust Earth-orbit transfers using the vectorial orbital elements. <i>Aerospace Science and Technology</i> , 2021, 112, 106614.	4.8	9
9	Novel method to calculate satellite visibility for an arbitrary sensor field. <i>Aerospace Science and Technology</i> , 2021, 112, 106668.	4.8	13
10	Rapid algorithm for covariance ellipsoid model based collision warning of space objects. <i>Aerospace Science and Technology</i> , 2021, 117, 106960.	4.8	4
11	Hovering Formation Control Based on Two-Stage Constant Thrust. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 504-517.	2.8	8
12	Practical Low-Thrust Geostationary Orbit Transfer Guidance via Linearized State Equations. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 620-627.	2.8	3
13	Teardrop hovering formation for elliptical orbit considering J2 perturbation. <i>Aerospace Science and Technology</i> , 2020, 106, 106098.	4.8	7
14	New fly-around formations for an elliptical reference orbit. <i>Acta Astronautica</i> , 2020, 171, 335-351.	3.2	11
15	Periodic Trajectory of Relative Motion Controlled by Constant Thrust. <i>Journal of Physics: Conference Series</i> , 2020, 1510, 012024.	0.4	0
16	Initial Orbit Determination from Atmospheric Drag Direction. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 2731-2740.	2.8	2
17	Onboard satellite visibility prediction using metamodeling based framework. <i>Aerospace Science and Technology</i> , 2019, 94, 105377.	4.8	19
18	Algorithm of Relative Lambert Transfer Based on Relative Orbital Elements. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 1413-1422.	2.8	3

#	ARTICLE	IF	CITATIONS
19	Analytical field-of-regard representation for rapid and accurate prediction of agile satellite imaging opportunities. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	8
20	A New Solution of Rendezvous between Geosynchronous Satellites based on Analytical low-thrust orbit propagation. , 2018, , .		0
21	New Solution for Rendezvous Between Geosynchronous Satellites Using Low Thrust. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1397-1406.	2.8	11
22	Instantaneous GNSS attitude determination: A Monte Carlo sampling approach. <i>Acta Astronautica</i> , 2017, 133, 24-29.	3.2	8
23	Satellite single-axis attitude determination based on Automatic Dependent Surveillance - Broadcast signals. <i>Acta Astronautica</i> , 2017, 139, 130-140.	3.2	4
24	Precise real-time navigation of LEO satellites using a single-frequency GPS receiver and ultra-rapid ephemerides. <i>Aerospace Science and Technology</i> , 2017, 67, 228-236.	4.8	13
25	Real-time precise orbit determination of LEO satellites using a single-frequency GPS receiver: Preliminary results of Chinese SJ-9A satellite. <i>Advances in Space Research</i> , 2017, 60, 1478-1487.	2.6	7
26	Autonomous orbit determination using epoch-differenced gravity gradients and starlight refraction. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 1740-1749.	5.3	7
27	Rapid satellite-to-site visibility determination based on self-adaptive interpolation technique. <i>Science China Technological Sciences</i> , 2017, 60, 264-270.	4.0	20
28	Real-time kinematic positioning of LEO satellites using a single-frequency GPS receiver. <i>GPS Solutions</i> , 2017, 21, 973-984.	4.3	9
29	Autonomous orbit determination via kalman filtering of gravity gradients. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016, 52, 2436-2451.	4.7	26
30	Low-Earth Orbit Determination from Gravity Gradient Measurements. <i>Acta Astronautica</i> , 2016, 123, 350-362.	3.2	21
31	Gravity Gradient Tensor Eigendecomposition for Spacecraft Positioning. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 2200-2206.	2.8	11
32	Stochastic Modeling and Variance Component Estimation to GPS Observables for LEO Relative Navigation Applications. , 2013, , .		0