

# Xiucong Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1453162/publications.pdf>

Version: 2024-02-01

32  
papers

235  
citations

1040056

9  
h-index

1058476

14  
g-index

32  
all docs

32  
docs citations

32  
times ranked

149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous orbit determination via kalman filtering of gravity gradients. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2436-2451.	4.7	26
2	Low-Earth Orbit Determination from Gravity Gradient Measurements. Acta Astronautica, 2016, 123, 350-362.	3.2	21
3	Rapid satellite-to-site visibility determination based on self-adaptive interpolation technique. Science China Technological Sciences, 2017, 60, 264-270.	4.0	20
4	Onboard satellite visibility prediction using metamodeling based framework. Aerospace Science and Technology, 2019, 94, 105377.	4.8	19
5	Precise real-time navigation of LEO satellites using a single-frequency GPS receiver and ultra-rapid ephemerides. Aerospace Science and Technology, 2017, 67, 228-236.	4.8	13
6	Novel method to calculate satellite visibility for an arbitrary sensor field. Aerospace Science and Technology, 2021, 112, 106668.	4.8	13
7	Gravity Gradient Tensor Eigendecomposition for Spacecraft Positioning. Journal of Guidance, Control, and Dynamics, 2015, 38, 2200-2206.	2.8	11
8	New Solution for Rendezvous Between Geosynchronous Satellites Using Low Thrust. Journal of Guidance, Control, and Dynamics, 2018, 41, 1397-1406.	2.8	11
9	New fly-around formations for an elliptical reference orbit. Acta Astronautica, 2020, 171, 335-351.	3.2	11
10	Real-time kinematic positioning of LEO satellites using a single-frequency GPS receiver. GPS Solutions, 2017, 21, 973-984.	4.3	9
11	Optimization of low-thrust Earth-orbit transfers using the vectorial orbital elements. Aerospace Science and Technology, 2021, 112, 106614.	4.8	9
12	Instantaneous GNSS attitude determination: A Monte Carlo sampling approach. Acta Astronautica, 2017, 133, 24-29.	3.2	8
13	Hovering Formation Control Based on Two-Stage Constant Thrust. Journal of Guidance, Control, and Dynamics, 2020, 43, 504-517.	2.8	8
14	Analytical field-of-regard representation for rapid and accurate prediction of agile satellite imaging opportunities. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	8
15	Real-time precise orbit determination of LEO satellites using a single-frequency GPS receiver: Preliminary results of Chinese SJ-9A satellite. Advances in Space Research, 2017, 60, 1478-1487.	2.6	7
16	Autonomous orbit determination using epoch-differenced gravity gradients and starlight refraction. Chinese Journal of Aeronautics, 2017, 30, 1740-1749.	5.3	7
17	Teardrop hovering formation for elliptical orbit considering J2 perturbation. Aerospace Science and Technology, 2020, 106, 106098.	4.8	7
18	Satellite single-axis attitude determination based on Automatic Dependent Surveillance - Broadcast signals. Acta Astronautica, 2017, 139, 130-140.	3.2	4

#	ARTICLE	IF	CITATIONS
19	Rapid algorithm for covariance ellipsoid model based collision warning of space objects. Aerospace Science and Technology, 2021, 117, 106960.	4.8	4
20	Algorithm of Relative Lambert Transfer Based on Relative Orbital Elements. Journal of Guidance, Control, and Dynamics, 2019, 42, 1413-1422.	2.8	3
21	Practical Low-Thrust Geostationary Orbit Transfer Guidance via Linearized State Equations. Journal of Guidance, Control, and Dynamics, 2020, 43, 620-627.	2.8	3
22	On the Feasibility of Orbit Determination From Gravity Gradient Invariants. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 263-277.	4.7	3
23	Initial Orbit Determination from Atmospheric Drag Direction. Journal of Guidance, Control, and Dynamics, 2019, 42, 2731-2740.	2.8	2
24	Practical maintenance strategies for teardrop hovering formation relative to elliptical orbit. Acta Astronautica, 2022, 190, 176-193.	3.2	2
25	Geolocation of Formation-Flying Spacecraft Using Relative Position Vector Measurements. Journal of Guidance, Control, and Dynamics, 2022, 45, 764-773.	2.8	2
26	Dual-channel LIDAR searching, positioning, tracking and landing system for rotorcraft from ships at sea. Journal of Navigation, 2022, 75, 901-927.	1.7	2
27	Linear transfer guidance based on Lyapunov method. Journal of Physics: Conference Series, 2021, 1786, 012055.	0.4	1
28	Low-thrust Lambert transfer based on two-stage constant-vector thrust control method. Nonlinear Dynamics, 2022, 110, 313-346.	5.2	1
29	Stochastic Modeling and Variance Component Estimation to GPS Observables for LEO Relative Navigation Applications. , 2013, , .		0
30	A New Solution of Rendezvous between Geosynchronous Satellites based on Analytical low-thrust orbit propagation. , 2018, , .		0
31	Linearization method for constant thrust control. Journal of Physics: Conference Series, 2021, 1786, 012020.	0.4	0
32	Periodic Trajectory of Relative Motion Controlled by Constant Thrust. Journal of Physics: Conference Series, 2020, 1510, 012024.	0.4	0