

# Gangqiang Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7572031/publications.pdf>

Version: 2024-02-01

35  
papers

427  
citations

686830

13  
h-index

794141

19  
g-index

35  
all docs

35  
docs citations

35  
times ranked

107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional High-Fidelity Dynamic Modeling of Tether Transportation System with Multiple Climbers. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 1797-1811.	1.6	34
2	Libration and transverse dynamic stability control of flexible bare electrodynamic tether systems in satellite deorbit. <i>Aerospace Science and Technology</i> , 2016, 49, 112-129.	2.5	32
3	Libration Control of Bare Electrodynamic Tethers Considering Elastic-Thermal-Electrical Coupling. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 642-654.	1.6	29
4	A virtual experiment for partial space elevator using a novel high-fidelity FE model. <i>Nonlinear Dynamics</i> , 2019, 95, 2717-2727.	2.7	28
5	Multiphysics elastodynamic finite element analysis of space debris deorbit stability and efficiency by electrodynamic tethers. <i>Acta Astronautica</i> , 2017, 137, 320-333.	1.7	27
6	Characteristics of coupled orbital-attitude dynamics of flexible electric solar wind sail. <i>Acta Astronautica</i> , 2019, 159, 593-608.	1.7	27
7	On libration suppression of partial space elevator with a moving climber. <i>Nonlinear Dynamics</i> , 2019, 97, 2107-2125.	2.7	22
8	Mass Ratio of Electrodynamic Tether to Spacecraft on Deorbit Stability and Efficiency. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2192-2198.	1.6	19
9	Dynamics and operation optimization of partial space elevator with multiple climbers. <i>Advances in Space Research</i> , 2019, 63, 3213-3222.	1.2	17
10	Flight Dynamics and Control Strategy of Electric Solar Wind Sails. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 462-474.	1.6	17
11	Automatic orbital maneuver for mega-constellations maintenance with electrodynamic tethers. <i>Aerospace Science and Technology</i> , 2020, 105, 105910.	2.5	16
12	Rigid-flexible coupling effect on attitude dynamics of electric solar wind sail. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105663.	1.7	15
13	Analysis of thrust-induced sail plane coning and attitude motion of electric sail. <i>Acta Astronautica</i> , 2021, 178, 129-142.	1.7	14
14	A novel looped space tether transportation system with multiple climbers for high efficiency. <i>Acta Astronautica</i> , 2021, 179, 253-265.	1.7	14
15	Orbital boost characteristics of spacecraft by electrodynamic tethers with consideration of electric-magnetic-dynamic energy coupling. <i>Acta Astronautica</i> , 2020, 171, 196-207.	1.7	13
16	Precise Analysis of Deorbiting by Electrodynamic Tethers Using Coupled Multiphysics Finite Elements. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3348-3357.	1.6	12
17	Numerical model of towed cable body system validation from sea trial experimental data. <i>Ocean Engineering</i> , 2021, 226, 108859.	1.9	12
18	Stable cargo transportation of partial space elevator with multiple actuators. <i>Advances in Space Research</i> , 2021, 68, 2999-3011.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Stability and control of radial deployment of electric solar wind sail. <i>Nonlinear Dynamics</i> , 2021, 103, 481-501.	2.7	11
20	Multiphysics Finite Element Modeling of Current Generation of Bare Flexible Electrodynamic Tether. <i>Journal of Propulsion and Power</i> , 2017, 33, 408-419.	1.3	9
21	Model predictive control for electrodynamic tether geometric profile in orbital maneuvering with finite element state estimator. <i>Nonlinear Dynamics</i> , 2021, 106, 473-489.	2.7	8
22	Hamiltonian Nodal Position Finite Element Method for Cable Dynamics. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750109.	1.3	7
23	Libration suppression of partial space elevator by controlling climber attitude using reaction wheel. <i>Acta Astronautica</i> , 2021, 183, 126-133.	1.7	6
24	A new looped tether transportation system with multiple rungs. <i>Acta Astronautica</i> , 2021, 189, 687-698.	1.7	6
25	Estimation of flexible space tether state based on end measurement by finite element Kalman filter state estimator. <i>Advances in Space Research</i> , 2021, 67, 3282-3293.	1.2	5
26	Fuzzy-based continuous current control of electrodynamic tethers for stable and efficient orbital boost. <i>Aerospace Science and Technology</i> , 2021, 118, 106999.	2.5	5
27	Dynamics of orbital boost maneuver of low Earth orbit satellites by electrodynamic tethers. <i>Aerospace Systems</i> , 2020, 3, 189-196.	0.7	4
28	Parameter influence on electron collection efficiency of a bare electrodynamic tether. <i>Science China Information Sciences</i> , 2018, 61, 1.	2.7	3
29	Libration suppression of moon-based partial space elevator in cargo transportation. <i>Acta Astronautica</i> , 2020, 177, 96-102.	1.7	3
30	Dynamics of Partial Space Elevator with Parallel Tethers and Multiple Climbers. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 231-252.	0.3	1
31	Multiphysics Modeling of Electron Collection by Bare Flexible Electrodynamic Tether in Space Debris Deorbit. , 2016, , .		0
32	A Novel Concept of a Parallel Partial Space Elevator With Multiple Carts. , 2020, , .		0
33	Dynamic Analysis of Deployment of Electric Solar Wind Sail. , 2020, , .		0
34	Libration and end body swing stabilization of a parallel partial space elevator system. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 187-199.	2.8	0
35	Dynamic modeling and analysis of the looped space tether transportation system based on ANCF. <i>International Journal of Mechanical System Dynamics</i> , 2022, 2, 204-213.	1.3	0