Gangqiang Li

List of Publications by Year
in descending order

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35	427	687220 13	794469 19
papers	citations	h-index	g-index

35	35	35	107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic modeling and analysis of the looped space tether transportation system based on ANCF. International Journal of Mechanical System Dynamics, 2022, 2, 204-213.	1.3	0
2	Analysis of thrust-induced sail plane coning and attitude motion of electric sail. Acta Astronautica, 2021, 178, 129-142.	1.7	14
3	Rigid-flexible coupling effect on attitude dynamics of electric solar wind sail. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105663.	1.7	15
4	A novel looped space tether transportation system with multiple climbers for high efficiency. Acta Astronautica, 2021, 179, 253-265.	1.7	14
5	Libration and end body swing stabilization of a parallel partial space elevator system. Chinese Journal of Aeronautics, 2021, 34, 187-199.	2.8	0
6	Numerical model of towed cable body system validation from sea trial experimental data. Ocean Engineering, 2021, 226, 108859.	1.9	12
7	Estimation of flexible space tether state based on end measurement by finite element Kalman filter state estimator. Advances in Space Research, 2021, 67, 3282-3293.	1.2	5
8	Libration suppression of partial space elevator by controlling climber attitude using reaction wheel. Acta Astronautica, 2021, 183, 126-133.	1.7	6
9	Model predictive control for electrodynamic tether geometric profile in orbital maneuvering with finite element state estimator. Nonlinear Dynamics, 2021, 106, 473-489.	2.7	8
10	Stable cargo transportation of partial space elevator with multiple actuators. Advances in Space Research, 2021, 68, 2999-3011.	1.2	11
11	Fuzzy-based continuous current control of electrodynamic tethers for stable and efficient orbital boost. Aerospace Science and Technology, 2021, 118, 106999.	2.5	5
12	A new looped tether transportation system with multiple rungs. Acta Astronautica, 2021, 189, 687-698.	1.7	6
13	Stability and control of radial deployment of electric solar wind sail. Nonlinear Dynamics, 2021, 103, 481-501.	2.7	11
14	Flight Dynamics and Control Strategy of Electric Solar Wind Sails. Journal of Guidance, Control, and Dynamics, 2020, 43, 462-474.	1.6	17
15	Automatic orbital maneuver for mega-constellations maintenance with electrodynamic tethers. Aerospace Science and Technology, 2020, 105, 105910.	2.5	16
16	A Novel Concept of a Parallel Partial Space Elevator With Multiple Carts. , 2020, , .		0
17	Libration suppression of moon-based partial space elevator in cargo transportation. Acta Astronautica, 2020, 177, 96-102.	1.7	3
18	Orbital boost characteristics of spacecraft by electrodynamic tethers with consideration of electric-magnetic-dynamic energy coupling. Acta Astronautica, 2020, 171, 196-207.	1.7	13

#	Article	IF	Citations
19	Dynamics of orbital boost maneuver of low Earth orbit satellites by electrodynamic tethers. Aerospace Systems, 2020, 3, 189-196.	0.7	4
20	Dynamic Analysis of Deployment of Electric Solar Wind Sail. , 2020, , .		0
21	Dynamics of Partial Space Elevator with Parallel Tethers and Multiple Climbers. Lecture Notes in Electrical Engineering, 2020, , 231-252.	0.3	1
22	On libration suppression of partial space elevator with a moving climber. Nonlinear Dynamics, 2019, 97, 2107-2125.	2.7	22
23	Dynamics and operation optimization of partial space elevator with multiple climbers. Advances in Space Research, 2019, 63, 3213-3222.	1.2	17
24	Three-Dimensional High-Fidelity Dynamic Modeling of Tether Transportation System with Multiple Climbers. Journal of Guidance, Control, and Dynamics, 2019, 42, 1797-1811.	1.6	34
25	Characteristics of coupled orbital-attitude dynamics of flexible electric solar wind sail. Acta Astronautica, 2019, 159, 593-608.	1.7	27
26	A virtual experiment for partial space elevator using a novel high-fidelity FE model. Nonlinear Dynamics, 2019, 95, 2717-2727.	2.7	28
27	Parameter influence on electron collection efficiency of a bare electrodynamic tether. Science China Information Sciences, 2018, 61, 1.	2.7	3
28	Multiphysics elastodynamic finite element analysis of space debris deorbit stability and efficiency by electrodynamic tethers. Acta Astronautica, 2017, 137, 320-333.	1.7	27
29	Hamiltonian Nodal Position Finite Element Method for Cable Dynamics. International Journal of Applied Mechanics, 2017, 09, 1750109.	1.3	7
30	Precise Analysis of Deorbiting by Electrodynamic Tethers Using Coupled Multiphysics Finite Elements. Journal of Guidance, Control, and Dynamics, 2017, 40, 3348-3357.	1.6	12
31	Multiphysics Finite Element Modeling of Current Generation of Bare Flexible Electrodynamic Tether. Journal of Propulsion and Power, 2017, 33, 408-419.	1.3	9
32	Multiphysics Modeling of Electron Collection by Bare Flexible Electrodynamic Tether in Space Debris Deorbit. , 2016, , .		0
33	Mass Ratio of Electrodynamic Tether to Spacecraft on Deorbit Stability and Efficiency. Journal of Guidance, Control, and Dynamics, 2016, 39, 2192-2198.	1.6	19
34	Libration and transverse dynamic stability control of flexible bare electrodynamic tether systems in satellite deorbit. Aerospace Science and Technology, 2016, 49, 112-129.	2.5	32
35	Libration Control of Bare Electrodynamic Tethers Considering Elasticâ€“Thermalâ€“Electrical Coupling. Journal of Guidance, Control, and Dynamics, 2016, 39, 642-654.	1.6	29